		Dominant		Dominance Test worksheet:	
<u>Tree Stratum</u> (Plot size: <u>30 ft</u>)		Species?		Number of Dominant Species	
1. <u>Taxodium ascendens, Pond-Cypress</u>	30	<u>Yes</u>	<u>OBL</u>	That Are OBL, FACW, or FAC: 8 (A))
2. <u>Salix nigra, Black Willow</u>		<u>Yes</u>		Total Number of Dominant	
3. Catalpa speciosa, Northern Catalpa	5	<u>No</u>	<u>FACU</u>	Species Across All Strata: 8 (B)	,
4				Dercent of Deminent Species	
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/I	(B)
6					_,
	55 :	= Total Cov	er	Prevalence Index worksheet:	
50% of total cover:27.5	20% of	total cover	11	Total % Cover of: Multiply by:	
Sapling Stratum (Plot size: 30 ft)				OBL species <u>85</u> x 1 = <u>85</u>	
1. Acer rubrum, Red Maple	30	Yes	FAC	FACW species15 x 2 =30	
Liquidambar styraciflua, Sweet-Gum				FAC species <u>85</u> x 3 = <u>255</u>	
Taxodium ascendens, Pond-Cypress				FACU species10 x 4 =40	
				UPL species0 x 5 =0	
4. Salix nigra, Black Willow				Column Totals:195 (A)410 (B	3)
5. <u>Ulmus americana, American Elm</u>	5	<u>No</u>	FAC_		,
6				Prevalence Index = B/A =2.10	
	<u>85</u> :	= Total Cov	er	Hydrophytic Vegetation Indicators:	
50% of total cover: <u>42.5</u>	20% of	total cover	17	1 - Rapid Test for Hydrophytic Vegetation	
Shrub Stratum (Plot size: 30 ft)				X 2 - Dominance Test is >50%	
Taxodium ascendens, Pond-Cypress	15	<u>Yes</u>	OBL	X 3 - Prevalence Index is ≤3.01	
2. Acer rubrum, Red Maple				Problematic Hydrophytic Vegetation¹ (Explain)	
3. <u>Liquidambar styraciflua, Sweet-Gum</u>			FAC		
4. Catalpa speciosa, Northern Catalpa			FACU	¹ Indicators of hydric soil and wetland hydrology must	
5				be present, unless disturbed or problematic.	
6.				Definitions of Five Vegetation Strata:	
•.	30	Total Cov			
50% of total cover: 15				Tree – Woody plants, excluding woody vines,	
	20 % 01	total cover		approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).	
Herb Stratum (Plot size: 30 ft)	10	V	FACIAL	(,	
1. Onoclea sensibilis, Sensitive Fern			FACW	Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less	
2. <u>Carex tribuloides, Blunt Broom Sedge</u>			<u>FACW</u>	than 3 in. (7.6 cm) DBH.	
3					
4				Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.	
5				approximately 5 to 20 it (1 to 6 iii) iii fielgiit.	
6				Herb - All herbaceous (non-woody) plants, including	j
7				herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately	
8				3 ft (1 m) in height.	
9					
10				Woody vine - All woody vines, regardless of height.	
11.					
	15 :	= Total Cov	er		
50% of total cover: 7.5					
	20% 01	total cover.			
Woody Vine Stratum (Plot size: 30 ft)	4.0		F.4.0		
1. <u>Smilax rotundifolia, Horsebrier</u>		<u>Yes</u>	<u>FAC</u>		
2					
3					
4					
5				Hydrophytic	
	10:	= Total Cov	er	Vegetation	
50% of total cover:5	20% of	total cover	2	Present? Yes No	
Remarks: (If observed, list morphological adaptations belo				1	
, , , , , , , , , , , , , , , , , , , ,	,				

Sampling Point: JD W 006

SOIL

		to the dep	oth needed to docur			or confirm	the absence	e of indicators.)
Depth (inches)	Matrix Color (moist)	%	Color (moist)	x Feature %	Type ¹ _	_Loc ²	Texture	Remarks
0-6	10YR 5/1	100%					Clay loam	
6-20	10YR 5/1	60%	10YR 5/6	10%			Clay loam	Dual matrix
			10111 3/0	1070			Clay Ioaiii	
	2.5Y 4/2	30%						
			-					
¹Type: C=C	oncentration, D=Dep	letion, RM	=Reduced Matrix, M	S=Masked	d Sand Gr	ains.	² Location:	PL=Pore Lining, M=Matrix.
Hydric Soil	Indicators: (Applic	able to all	LRRs, unless other	rwise not	ed.)		Indicators	s for Problematic Hydric Soils ³ :
Histoso			Polyvalue Be				l) 1 cm l	Muck (A9) (LRR O)
	pipedon (A2)		Thin Dark Su					Muck (A10) (LRR S)
_	istic (A3) en Sulfide (A4)		Loamy Muck Loamy Gleye	-		(0)		ced Vertic (F18) (outside MLRA 150A,B) nont Floodplain Soils (F19) (LRR P, S, T)
	d Layers (A5)		× Depleted Ma		(Г2)			alous Bright Loamy Soils (F20)
_	Bodies (A6) (LRR P	, T, U)	Redox Dark		6)			RA 153B)
5 cm M	ucky Mineral (A7) (LF	RR P, T, U) Depleted Da	rk Surface	(F7)			Parent Material (TF2)
ı —	resence (A8) (LRR U)	Redox Depre	,	8)			Shallow Dark Surface (TF12)
	uck (A9) (LRR P, T) d Below Dark Surfac	o (A11)	Marl (F10) (L Depleted Oc	•	/MIDA 1	54)	Other	(Explain in Remarks)
I — ·	ark Surface (A12)	e (ATT)	Iron-Mangan	, ,	•	-	T) ³ Indi	cators of hydrophytic vegetation and
ı —	rairie Redox (A16) (N	ILRA 150	_				,	tland hydrology must be present,
	Mucky Mineral (S1) (I	RR O, S)						less disturbed or problematic.
	Gleyed Matrix (S4)		Reduced Ver					
	Redox (S5) I Matrix (S6)		— Piedmont Flo				эд) A 149A, 153C	: 153D)
	rface (S7) (LRR P, S	S, T, U)		origine Loui	11) 00110 (20) (111211	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	, 1002,
Restrictive	Layer (if observed):							
Туре:								
Depth (ir	ches):						Hydric Soi	I Present? Yes x No
Remarks:							•	

Date: 5/5/21

Feature Name: JD_W_006





Photograph Direction North

Comments:

Photograph Direction South

Comments:





Photograph Direction West

Comments:

Photograph Direction East

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: Dominion CVOW	City/County: Virgini	a Beach/Virginia Beach	Sampling Date:5/5/2	021	
Applicant/Owner: Dominion		State: <u>VA</u>	Sampling Point: JD W06 UI)	
Investigator(s): J. Daugustine, B. Harris	Section, Township,	Range:			
Landform (hillslope, terrace, etc.): Hillslope					
Subregion (LRR or MLRA): MLRA 153B of LRR T Lat:	36.747147	7_ Long:	-76.132373 Datum: WGS84	Ĺ	
		NWI classific			
Are climatic / hydrologic conditions on the site typical for this time of y	rear? Yesx No	o (If no, explain in F	Remarks.)		
Are Vegetation, Soil, or Hydrology significantly					
Are Vegetation, Soil, or Hydrology naturally pr		needed, explain any answe			
SUMMARY OF FINDINGS – Attach site map showing			•	tc.	
Hydrophytic Vegetation Present? Yes x No	- Is the Samb	led Area			
Hydric Soil Present? Yes Nox	within a Wet		No×		
Wetland Hydrology Present? Yes Nox	-				
Remarks:			Observed Classifications: Cowardin:	-	
HYDROLOGY					
Wetland Hydrology Indicators:		Secondary Indica	ators (minimum of two required)	
Primary Indicators (minimum of one is required; check all that apply)			Cracks (B6)		
Surface Water (A1) Aquatic Fauna (B			getated Concave Surface (B8)		
High Water Table (A2) Marl Deposits (B1		Drainage Pa			
Saturation (A3) Hydrogen Sulfide		Moss Trim L	, ,		
Water Marks (B1) Oxidized Rhizospl		· / ·	Water Table (C2)		
Sediment Deposits (B2) Presence of Redu Drift Deposits (B3) Recent Iron Redu	, ,	Crayfish Burrows (C8) (C6) Saturation Visible on Aerial Imagery (C9)			
Drift Deposits (B3) Recent Iron Redu Algal Mat or Crust (B4) Thin Muck Surface	•		Position (D2)		
Iron Deposits (B5) Other (Explain in I	. ,	Shallow Aqu			
Inundation Visible on Aerial Imagery (B7)	(cirianto)	FAC-Neutra	, ,		
Water-Stained Leaves (B9)			moss (D8) (LRR T, U)		
Field Observations:				\dashv	
Surface Water Present? Yes Nox Depth (inches	s):				
Water Table Present? Yes No _x _ Depth (inches					
Saturation Present? Yes No _x Depth (inches	,	Wetland Hydrology Prese	nt? Yes No×	_	
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photographics)	toe previous inspectiv	one) if available:		\dashv	
Describe Recorded Data (stream gauge, monitoring well, aerial prior	tos, previous irispection	ons), ii avallable.			
Remarks:				\dashv	
Remarks.					
				-	

,	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 ft)		Species?		Number of Dominant Species
Quercus michauxii, Swamp Chestnut Oak	30	<u>Yes</u>	FACW	That Are OBL, FACW, or FAC:5 (A)
2. <u>Liquidambar styraciflua, Sweet-Gum</u>				Total Number of Dessired
3. Quercus rubra, Northern Red Oak				Total Number of Dominant Species Across All Strata: 8 (B)
4. Quercus falcata, Southern Red Oak				
5.				Percent of Dominant Species That Are OBL, FACW, or FAC: 62.5% (A/B)
6				
	85	= Total Cove	er	Prevalence Index worksheet:
50% of total cover: <u>42.5</u>	20% o	f total cover:	17	Total % Cover of: Multiply by:
Sapling Stratum (Plot size: <u>30 ft</u>)				OBL species0 x 1 =0
1. Quercus falcata, Southern Red Oak	10	Yes	FACU	FACW species x 2 =
2. Ulmus americana, American Elm		Yes		FAC species x 3 =
3				FACU species
4				UPL species0 x 5 =0
5				Column Totals: (A) (B)
6				Prevalence Index = B/A =0.00
	20	= Total Cove	er	Hydrophytic Vegetation Indicators:
50% of total cover: 10	20% o	f total cover:	4	1 - Rapid Test for Hydrophytic Vegetation
Shrub Stratum (Plot size: 30 ft)				× 2 - Dominance Test is >50%
1. Carya glabra, Pignut Hickory	5	Yes	FACU	3 - Prevalence Index is ≤3.0¹
2. Ulmus americana, American Elm				Problematic Hydrophytic Vegetation¹ (Explain)
3.				Troblematic rigarophytic vegetation (Explain)
4				¹ Indicators of hydric soil and wetland hydrology must
5.				be present, unless disturbed or problematic.
6.				Definitions of Five Vegetation Strata:
l .		= Total Cove	er er	Too 18/and relate evelveding woods visco
50% of total cover:5				Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in.
Herb Stratum (Plot size: 30 ft)				(7.6 cm) or larger in diameter at breast height (DBH).
1. Andropogon virginicus, Broom-Sedge	5	Yes	FAC	Sapling – Woody plants, excluding woody vines,
2.				approximately 20 ft (6 m) or more in height and less
3.				than 3 in. (7.6 cm) DBH.
4.				Shrub – Woody plants, excluding woody vines,
5.				approximately 3 to 20 ft (1 to 6 m) in height.
6.				Herb – All herbaceous (non-woody) plants, including
7.				herbaceous vines, regardless of size, and woody
8.				plants, except woody vines, less than approximately 3 ft (1 m) in height.
9.				o k (1 m) m noight.
10				Woody vine – All woody vines, regardless of height.
11.				
		= Total Cove	er	
50% of total cover: <u>2.5</u>				
Woody Vine Stratum (Plot size: 30 ft)				
1. Parthenocissus quinquefolia, Virginia-Creeper	30	Yes	FACU	
Smilax rotundifolia, Horsebrier	10	No No	FAC	
Vitis rotundifolia, Muscadine	10	No No	FAC	
Toxicodendron radicans, Eastern Poison Ivy		No	FAC	
5			TAC	
5	60	= Total Cove		Hydrophytic Vegetation
E004 of total agrees 20		= rotal cover:		Present? Yes _ x No
50% of total cover: 30 Remarks: (If observed, list morphological adaptations belo		i total cover:		
Transaction (in observed, list morphological adaptations beld	· · · · · · · · · · · · · · · · · · ·			

Soll Sampling Point: JD W 006 UP

Depth	cription: (Describe Matrix	to the depti		ment the ir ox Features		or confirm	the absence of inc	iicators.)	
(inches)	Color (moist)	%	Color (moist)	<u>%</u>	Type ¹	Loc ²	Texture	Remarks	
0-7	10YR 3/3	100%					Loam		
7-20	10YR 5/4	100%					Clay loam		
1									
	Concentration, D=Dep Indicators: (Applic					ains.	Location: PL=F	ore Lining, M=Matri:	X. Soile³:
Histoso		able to all L	Polyvalue Be			PP S T III		_	Jons .
	Epipedon (A2)		Thin Dark St					A10) (LRR S)	
	listic (A3)		Loamy Muck					rtic (F18) (outside N	ILRA 150A,B)
	en Sulfide (A4)		Loamy Gleye		-2)			oodplain Soils (F19)	. , , ,
	ed Layers (A5)		Depleted Ma		2)			Bright Loamy Soils (I	F20)
	c Bodies (A6) (LRR F lucky Mineral (A7) (Ll		Redox Dark Depleted Da	,	,		(MLRA 15	ง ธ) Material (TF2)	
	resence (A8) (LRR L		Redox Depre		. ,			v Dark Surface (TF1:	2)
1 cm M	luck (A9) (LRR P, T)	,	Marl (F10) (L	,				in in Remarks)	
	ed Below Dark Surfac	e (A11)	Depleted Oc						
_	Park Surface (A12)	MI DA 450A)	Iron-Mangan				•	of hydrophytic veget	
	Prairie Redox (A16) (I Mucky Mineral (S1) (Umbric Surfa Delta Ochric			, 0)		nydrology must be pr sturbed or problemat	
	Gleyed Matrix (S4)	o, o,	Reduced Ve			0A, 150B)	amoss an	otarboa or problema	
Sandy	Redox (S5)		Piedmont Flo						
	d Matrix (S6)		Anomalous I	Bright Loam	ny Soils (I	F20) (MLRA	A 149A, 153C, 153I	D)	
	urface (S7) (LRR P, S Layer (if observed)								
	Layer (II observed)								
	nches):						Hydric Soil Pres	ent? Yes	Nox
Remarks:	101100).						,		

Date: <u>5/5/21</u>

Feature Name: JD_W_006 UP





Photograph Direction North

Comments: None.

Photograph Direction South

Comments: None.





Photograph Direction East

Comments:

None.

Photograph Direction West

Comments: None.

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region

Project/Site: Dominion CVOW	City/County: Virginia	Beach/Virginia Beach	Sampling Date: 5/18/2021
Applicant/Owner: Dominion		State: VA	Sampling Point: JD_W_019
Investigator(s): J. D'Augustine, K. Walls			
Landform (hillslope, terrace, etc.): <u>Drainageway</u>			
Subregion (LRR or MLRA): MLRA 153B of LRR T Lat:			
Soil Map Unit Name: 32 - Rappahannock mucky peat, strongly saline			
Are climatic / hydrologic conditions on the site typical for this time of you			
Are Vegetation, Soil, or Hydrology significantly			
Are Vegetation, Soil, or Hydrology naturally pr	roblematic? (If	needed, explain any answe	rs in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing	g sampling point	locations, transects	, important features, etc.
Hydrophytic Vegetation Present? Yes x No			
Hydric Soil Present? Yesx No	is the Sample		
Wetland Hydrology Present? Yesx No	within a Wetl	and? Yes <u>x</u>	No
Remarks:			Observed Classifications:
			Cowardin:
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Indica	ators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply))	Surface Soil	
Surface Water (A1) Aquatic Fauna (B1			getated Concave Surface (B8)
High Water Table (A2) Marl Deposits (B1)		Drainage Pa	
× Saturation (A3) Hydrogen Sulfide		Moss Trim Li	, ,
Water Marks (B1) Oxidized Rhizosph		_	Water Table (C2)
Sediment Deposits (B2) Presence of Redu		Crayfish Burn	
Drift Deposits (B3) Recent Iron Reduc	` '	_ ′	isible on Aerial Imagery (C9)
x Algal Mat or Crust (B4) Thin Muck Surface	,		Position (D2)
Iron Deposits (B5) Other (Explain in F		Shallow Aqui	` '
Inundation Visible on Aerial Imagery (B7)	,	× FAC-Neutral	. ,
× Water-Stained Leaves (B9)			noss (D8) (LRR T, U)
Field Observations:			
Surface Water Present? Yes Nox Depth (inches	s):		
Water Table Present? Yesx No Depth (inches	s): 2		
Saturation Present? Yesx No Depth (inches		Vetland Hydrology Presen	nt? Yes <u>x</u> No
(includes capillary fringe)	too provious inspectio	as) if sucilable:	
Describe Recorded Data (stream gauge, monitoring well, aerial phot	os, previous inspection	ns), ii avallable.	
Remarks:			
Atlantic ribbed mussel observed within the intertidal wetland.			
			ļ

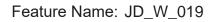
	Absolute Dominant Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 ft) 1. N/A	% Cover Species? Status	Number of Dominant Species That Are OBL, FACW, or FAC:1 (A)
2		Total Number of Dominant Species Across All Strata:1 (B)
4. 5.		Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
6		
	0 = Total Cover	Prevalence Index worksheet:
50% of total cover: 0	20% of total cover:0	Total % Cover of: Multiply by:
Sapling Stratum (Plot size: 30 ft)		OBL species x 1 = 0
1. <u>N/A</u>		FACW species 30 x 2 = 60
2		FAC species0 x 3 =0
3		FACU species0 x 4 =0
4		UPL species0 x 5 =0
5		Column Totals:30(A)60(B)
6		Prevalence Index = B/A =2.00
		Hydrophytic Vegetation Indicators:
	20% of total cover: 0	x 1 - Rapid Test for Hydrophytic Vegetation
Shrub Stratum (Plot size: 30 ft)		X 2 - Dominance Test is >50%
1. <u>N/A</u>		X 3 - Prevalence Index is ≤3.01
2		— Problematic Hydrophytic Vegetation¹ (Explain)
3		
4		Indicators of hydric soil and wetland hydrology must
5		be present, unless disturbed or problematic.
6		Definitions of Five Vegetation Strata:
	0 = Total Cover 20% of total cover:0	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in.
Herb Stratum (Plot size: 30 ft)		(7.6 cm) or larger in diameter at breast height (DBH).
1. Phragmites australis, Common Reed	30 Yes FACW	Sapling – Woody plants, excluding woody vines,
2		approximately 20 ft (6 m) or more in height and less
3		than 3 in. (7.6 cm) DBH.
4		Shrub – Woody plants, excluding woody vines,
5		approximately 3 to 20 ft (1 to 6 m) in height.
6		Herb – All herbaceous (non-woody) plants, including
7		herbaceous vines, regardless of size, <u>and</u> woody plants, except woody vines, less than approximately
8 9		3 ft (1 m) in height.
10		Woody vine – All woody vines, regardless of height.
11		
	= Total Cover	
	20% of total cover: 6	
Woody Vine Stratum (Plot size: 30 ft)	20 /0 OI LOLAI COVEI 0	
,		
1. <u>N/A</u>		
2		
3		
4		
5		Hydrophytic
E00/ -51-1-1 0	= Total Cover	Vegetation
	20% of total cover: 0	
Remarks: (If observed, list morphological adaptations belo	W).	
1		

Soll Sampling Point: $\underline{\mathrm{JD_{-}W_{-}019}}$

Depth Matrix Redox Features Color (moist) % Color (moist) % Type Loc Texture Remarks
0-20 10YR 3/3 100% Clay loam

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils ³ :
Histosol (A1) Polyvalue Below Surface (S8) (LRR S, T, U) 1 cm Muck (A9) (LRR O)
Histic Epipedon (A2) Thin Dark Surface (S9) (LRR S, T, U) 2 cm Muck (A10) (LRR S)
Black Histic (A3) Loamy Mucky Mineral (F1) (LRR O) Reduced Vertic (F18) (outside MLRA 150A
 Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Matrix (F3) Anomalous Bright Loamy Soils (F19) (LRR P, S, Matrix (F3)) Anomalous Bright Loamy Soils (F20)
Organic Bodies (A6) (LRR P, T, U) Redox Dark Surface (F6) (MLRA 153B)
5 cm Mucky Mineral (A7) (LRR P, T, U) Depleted Dark Surface (F7) Red Parent Material (TF2)
Muck Presence (A8) (LRR U) Redox Depressions (F8) Very Shallow Dark Surface (TF12)
1 cm Muck (A9) (LRR P, T) Marl (F10) (LRR U) Other (Explain in Remarks) Other (Explain in Remarks)
Thick Dark Surface (A12) Tron-Manganese Masses (F12) (LRR O, P, T) Iron-Manganese Masses (F12) (LRR O, P, T)
Coast Prairie Redox (A16) (MLRA 150A) Umbric Surface (F13) (LRR P, T, U) wetland hydrology must be present,
Sandy Mucky Mineral (S1) (LRR O, S) Delta Ochric (F17) (MLRA 151) unless disturbed or problematic. Sandy Gleyed Matrix (S4) Reduced Vertic (F18) (MLRA 150A, 150B)
Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 149A)
Stripped Matrix (S6) Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D)
Dark Surface (S7) (LRR P, S, T, U)
Restrictive Layer (if observed):
Type:
Depth (inches): Hydric Soil Present? Yes _ x No
incinaria.

Date: _____







Photograph Direction East

Comments:

Photograph Direction West

Comments:





Photograph Direction South

Comments:

Photograph Direction North

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

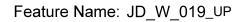
Project/Site: Dominion CVOW	City/County: Virginia Be	each/Virginia Beach	Sampling Date: 5/18/2021			
Applicant/Owner: Dominion		State: VA	Sampling Point: JD_W_019_UP			
Investigator(s): J. D'Augustine, K. Walls	Section, Township, Rang	ige:				
Landform (hillslope, terrace, etc.): Hillslope						
Subregion (LRR or MLRA): MLRA 153B of LRR T Lat:						
Soil Map Unit Name: 33E - Rumford fine sandy loam, 6 to 35 percent slopes						
Are climatic / hydrologic conditions on the site typical for this time of ye						
Are Vegetation, Soil, or Hydrology significantly						
Are Vegetation, Soil, or Hydrology naturally pr		eded, explain any answe				
SUMMARY OF FINDINGS – Attach site map showing		a de terresponde de la composition de la reserva de la composition de la filipida en la reseaux de	ordinary controller of description of the tension of the section			
Hydrophytic Vegetation Present? Yesx No		2				
Hydric Soil Present? Yes No _x	is the Sampled A		v			
Wetland Hydrology Present? Yes Nox	within a Wetland	d? Yes	Nox			
Remarks:			Observed Classifications: Cowardin:			
HYDROLOGY						
Wetland Hydrology Indicators:		Secondary Indica	ators (minimum of two required)			
Primary Indicators (minimum of one is required; check all that apply)	<u> </u>	Surface Soil				
Surface Water (A1) Aquatic Fauna (B1	13)	2004 DESCRIPTION OF THE PROPERTY OF THE PROPER	getated Concave Surface (B8)			
High Water Table (A2) Marl Deposits (B1		Drainage Pa				
Saturation (A3) Hydrogen Sulfide		Moss Trim Li				
	heres along Living Roots ((C3) Dry-Season	Water Table (C2)			
Sediment Deposits (B2) Presence of Redu	ced Iron (C4)	Crayfish Burrows (C8)				
Drift Deposits (B3) Recent Iron Reduc	ction in Tilled Soils (C6)	Saturation Vi	isible on Aerial Imagery (C9)			
Algal Mat or Crust (B4) Thin Muck Surface	e (C7)	Geomorphic	Position (D2)			
Iron Deposits (B5) Other (Explain in F		Shallow Aqui	itard (D3)			
Inundation Visible on Aerial Imagery (B7)		FAC-Neutral	Test (D5)			
Water-Stained Leaves (B9)		Sphagnum n	noss (D8) (LRR T, U)			
Field Observations:						
Surface Water Present? Yes Nox Depth (inches	s):					
Water Table Present? Yes Nox Depth (inches	s):					
Saturation Present? Yes No _x Depth (inches (includes capillary fringe)	s): Wet	tland Hydrology Presen	nt? Yes Nox			
Describe Recorded Data (stream gauge, monitoring well, aerial phot	tos, previous inspections),	, if available:				
Remarks:						
H						

_	Absolute	Dominant	Indicator	Dominance Test worksheet:		
Tree Stratum (Plot size: 30 ft)	% Cover	Species?	Status	Number of Dominant Species		
1. Pinus taeda, Loblolly Pine	50	<u>Yes</u>	<u>FAC</u>	That Are OBL, FACW, or FAC:	5	(A)
2. Quercus alba, Northern White Oak	20	Yes	<u>FACU</u>	Total Number of Densin ant		
3. <u>Liquidambar styraciflua, Sweet-Gum</u>				Total Number of Dominant Species Across All Strata:	8	(B)
4. Acer rubrum, Red Maple			10	Color A complete por some minimum en complete construir de la color de la colo		(5)
				Percent of Dominant Species	62.50/	
5				That Are OBL, FACW, or FAC: _	62.5%	(A/B)
6				Prevalence Index worksheet:		
	95	= Total Cov	er		Multiply by	
50% of total cover: <u>47.5</u>	20% of	f total cover:	19	Total % Cover of:		
Sapling Stratum (Plot size: 30 ft)				OBL species0 x 1 :		
1. Liquidambar styraciflua, Sweet-Gum	15	Yes	FAC	FACW species0 x 2 =	(18)	_
2. Quercus alba, Northern White Oak				FAC species130 x 3 =		<u> </u>
3.				FACU species50 x 4 :	= 200	_
· · ·				UPL species0 x 5 =	=0	_
4				Column Totals:180(A)	590	(B)
5				()	8	_ (-)
6				Prevalence Index = B/A =	3.28	
	30	= Total Cov	er	Hydrophytic Vegetation Indicato		
50% of total cover: 15	20% of	f total cover:	6	1 - Rapid Test for Hydrophytic		
Shrub Stratum (Plot size: 30 ft)	4		(d) (d)	x 2 - Dominance Test is >50%	vegetation	
1. Asimina triloba, Common Pawpaw	10	Vec	FΔC	DO TO THE PROPERTY OF THE PROP		
				3 - Prevalence Index is ≤3.01	21 0000 pg 000010 to 20	
2				Problematic Hydrophytic Vege	tation' (Explai	n)
3						
4				¹ Indicators of hydric soil and wetlar		nust
5				be present, unless disturbed or pro	blematic.	
6				Definitions of Five Vegetation St	rata:	
	10	= Total Cov	er	Topo 10/opdisplants avaluation such		
50% of total cover:5	20% of	f total cover	2	Tree – Woody plants, excluding we approximately 20 ft (6 m) or more in		l in
Herb Stratum (Plot size: 30 ft)				(7.6 cm) or larger in diameter at bre		
	1 -	Voc	FAC	NAME AND POST OF SE SE SE	A11 A120	
1. Asimina triloba, Common Pawpaw				Sapling – Woody plants, excluding approximately 20 ft (6 m) or more in		
2. Pteridium aquilinum, Northern Bracken Fern				than 3 in. (7.6 cm) DBH.	ii neight and it	533
3		2 2	-			
4				Shrub – Woody plants, excluding v		
5				approximately 3 to 20 ft (1 to 6 m) i	in neight.	
6		<u> </u>		Herb - All herbaceous (non-woody) plants, inclu	ding
7				herbaceous vines, regardless of size		
8	())	***		plants, except woody vines, less th	an approximat	tely
				3 ft (1 m) in height.		
9				Woody vine - All woody vines, reg	gardless of hei	ight.
10		-				
11	-					
	30	= Total Cov	er			
50% of total cover: <u>15</u>	20% of	f total cover:	6			
Woody Vine Stratum (Plot size: 30 ft)						
1. Smilax rotundifolia, Horsebrier	15	Yes	FAC			
2.	(6)					
1000						
3						
4						
5				Hydrophytic		
	15	= Total Cov	er	Vegetation	N	
50% of total cover: 7.5	20% of	f total cover:	3	Present? Yesx	NO	
Remarks: (If observed, list morphological adaptations belo	w).			I.		
The contraction of the contract	10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1					

Soll Sampling Point: JD_W_019_UP

Profile Des	cription: (Describe	to the depth r	needed to docur	nent the i	indicator	or confirm	the absence o	f indicato	ors.)	
Depth (inches)	Matrix Color (moist)	 _	Redo Color (moist)	x Feature %	s Type ¹	Loc ²	Texture		Remarks	
0-1	10YR 3/2	100%	COO (MOSt)		Туре	LOC	Loam		INCINAINS	
	10YR 6/3									
1-20	1018 6/3	100%		100		1	Loam			
·	N	<u> </u>								
-	<u> </u>			-1192						
	(-									
	· ·				<u>.</u>	112			1 11 11	
¹Type: C=C	oncentration, D=Dep	letion, RM=Re	duced Matrix, M	S=Masked	d Sand Gr	ains.	² Location: F	L=Pore Li	ining, M=Matri	х.
Hydric Soil	Indicators: (Applic	able to all LR	Rs, unless othe	rwise not	ed.)				matic Hydric \$	
Histosol		-	Polyvalue Be) 1 cm Mu	ick (A9) (L	.RR O)	
	pipedon (A2)	-	Thin Dark Su					ck (A10) (
	istic (A3) en Sulfide (A4)	-	Loamy Muck			(O)	The state of the s		18) (outside Nain Soils (F19)	ILRA 150A,B)
	d Layers (A5)		Loamy Gleye Depleted Ma		,F2)			100	Loamy Soils (N
	Bodies (A6) (LRR P	, T, U)	Redox Dark		- 6)			153B)		,
5 cm M	ucky Mineral (A7) (LF	RR P, T, U)	Depleted Da	rk Surface	(F7)		Red Par	ent Materi	al (TF2)	
	resence (A8) (LRR U		Redox Depre	100	8)				Surface (TF1	2)
	uck (A9) (LRR P, T) d Below Dark Surfac	- (A11)	Marl (F10) (L Depleted Oc	-010450-0000 ECOS-#11-	/MI DA 4/	E4 \	Other (E	xplain in F	Remarks)	
	ark Surface (A12)	e (ATT)	Depleted Oc Iron-Mangan				T) ³ Indicat	ors of hyd	drophytic veget	ation and
	rairie Redox (A16) (N	MLRA 150A)				100			ogy must be pr	
The property of the contract o	Mucky Mineral (S1) (I	_RR O, S)	Delta Ochric				unles	s disturbe	d or problema	tic.
	Gleyed Matrix (S4)		Reduced Ver		16					
	Redox (S5) I Matrix (S6)		Piedmont Flo				9A) A 149A, 153C, 1	153D)		
	rface (S7) (LRR P, S	s. T. U)	Anomalous I	origin Loai	ily Solis ((WILKA	143A, 133C,	1330)		
	Layer (if observed):	1974 N.C. C.								
Туре:	1183 Wed 5000		_							
Depth (in	ches):	11 11 11 11	_				Hydric Soil P	resent?	Yes	Nox
Remarks:							l.		14.	

Date: 5/18/21







Photograph Direction North

Comments:

Photograph Direction South

Comments:





Photograph Direction East

Comments:

Photograph Direction West

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

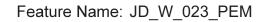
Project/Site: Dominion CVOW	City/County: Virgin	nia Beach/\	Virginia Beach	Sampling Date:	5/21/2021
Applicant/Owner: Dominion			State: VA	Sampling Point: J[D W23 PEM
Investigator(s): J. D'Augustine, K. Walls	Section, Township	, Range:			
Landform (hillslope, terrace, etc.): Depression					(%): <u>1</u>
Subregion (LRR or MLRA): MLRA 153B of LRR T Lat:					
Soil Map Unit Name: 38 - Tomotley loam					
Are climatic / hydrologic conditions on the site typical for this time of you					
Are Vegetation, Soil, or Hydrology significantly					No x
Are Vegetation, Soil, or Hydrology naturally pr			explain any answe		
SUMMARY OF FINDINGS – Attach site map showing		,	. ,	,	aturas atc
Comment of Findings - Attach site map showing		iii iocatic	Jiis, transects	, important rec	itures, etc.
Hydrophytic Vegetation Present? Yesx No		pled Area			
Hydric Soil Present? Yesx No	within a Wo	etland?	Yesx	No	
Wetland Hydrology Present? Yesx No	.				
Remarks:				Observed Classif	ications:
Data point taken within an existing cleared utility easement.				Cowardin:	
HYDROLOGY					
Wetland Hydrology Indicators:				tors (minimum of ty	wo required)
Primary Indicators (minimum of one is required; check all that apply)	i .		X Surface Soil	Cracks (B6)	
Surface Water (A1) Aquatic Fauna (B1	13)		Sparsely Veg	getated Concave Si	urface (B8)
High Water Table (A2) Marl Deposits (B1	5) (LRR U)		Drainage Pat	terns (B10)	
Saturation (A3) Hydrogen Sulfide	Odor (C1)		Moss Trim Li	nes (B16)	
Water Marks (B1) Oxidized Rhizosph	neres along Living R	Roots (C3)	Dry-Season	Water Table (C2)	
Sediment Deposits (B2) Presence of Redu	ced Iron (C4)		x Crayfish Burn	rows (C8)	
Drift Deposits (B3) Recent Iron Reduc	ction in Tilled Soils (C6)	Saturation Vi	sible on Aerial Ima	gery (C9)
Algal Mat or Crust (B4) Thin Muck Surface	e (C7)		_x Geomorphic	Position (D2)	
Iron Deposits (B5) Other (Explain in F	Remarks)		Shallow Aqui	tard (D3)	
Inundation Visible on Aerial Imagery (B7)			x FAC-Neutral	Test (D5)	
Water-Stained Leaves (B9)			Sphagnum m	noss (D8) (LRR T, I	U)
Field Observations:					
Surface Water Present? Yes Nox Depth (inches	s):				
Water Table Present? Yes No _x Depth (inches	s):				
Saturation Present? Yes Nox Depth (inches	s):	Wetland I	Hydrology Presen	t? Yesx	No
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial phot	too provious inches	tiona) if au	vilable:		
Describe Recorded Data (stream gauge, monitoring well, aenai phot	os, previous inspect	uoris), ii ava	anable.		
Remarks:					
Remarks.					
					+

	Absolute Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 ft) 1. N/A	% Cover Species?		Number of Dominant Species That Are OBL, FACW, or FAC:2 (A)
2			Total Number of Dominant Species Across All Strata:2 (B)
4 5			Percent of Dominant Species
6.			That Are OBL, FACW, or FAC:100.0% (A/B)
	0 = Total Cov	/er	Prevalence Index worksheet:
50% of total cover: 0			Total % Cover of: Multiply by:
Sapling Stratum (Plot size: 30 ft)			OBL species85 x 1 =85
1. <u>N/A</u>			FACW species0 x 2 =0
2.			FAC species 0 x 3 = 0
3.			FACU species 5 x 4 = 20
4			UPL species0 x 5 =0
5			Column Totals:90
6			Prevalence Index = B/A =1.17
500 5111	= Total Cov		Hydrophytic Vegetation Indicators:
50% of total cover:0	20% of total cover	:0	x 1 - Rapid Test for Hydrophytic Vegetation
Shrub Stratum (Plot size: 30 ft)			× 2 - Dominance Test is >50%
1. <u>N/A</u>			X 3 - Prevalence Index is ≤3.01
2			Problematic Hydrophytic Vegetation¹ (Explain)
3			
4			¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
5			Definitions of Five Vegetation Strata:
6	= Total Cov		Deminions of Five Vegetation Strata.
50% of total cover:0			Tree – Woody plants, excluding woody vines,
Herb Stratum (Plot size: 30 ft)			approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).
1. Carex Iurida, Shallow Sedge		OBL_	Sapling - Woody plants, excluding woody vines,
2. <u>Typha angustifolia, Narrow-Leaf Cat-Tail</u>		OBL_	approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.
3. <u>Scirpus cyperinus, Cottongrass Bulrush</u>		OBL_	
4. <u>Juncus effusus, Lamp Rush</u>		OBL	Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.
5. Portulaca oleracea, Little-Hogweed		<u>FACU</u>	approximately 5 to 25 te (1 to 5 m) in neight.
Eleocharis palustris, Common Spike-Rush . .			Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
9			Woody vine – All woody vines, regardless of height.
10			
11			
50% of total cover: 45	90 = Total Cov		
Woody Vine Stratum (Plot size: 30 ft)	20% or total cover		
1. N/A			
2			
3.			
4.			
5.			Hadaaa kada
	0 = Total Cov	er	Hydrophytic Vegetation
50% of total cover:0			Present? Yesx No
Remarks: (If observed, list morphological adaptations belo			l .
(ii assati tal, iist majphalagian adaptations both	···· <i>,</i> ·		

SOIL JD_W_023_PEM Sampling Point: JD_W23_PEM

Profile Des	cription: (Describe	to the dep	th needed to docun	nent the i	ndicator	or confirn	n the absence of in	dicators.)
Depth	Matrix	0/		x Features		1 ==2	T	Barrantin
(inches)	Color (moist)		Color (moist)	<u>%</u>	Type ¹	Loc ²	Texture	Remarks
0-5	10YR 4/1	100%					Loam	
5-13	10YR 4/1	95%	10YR 4/6	5%	C	PL	Clay loam	
13-20	10YR 5/1	90%	10YR 4/6	10%	<u>C</u>	PL_	Sandy clay loam	
17 0 - 0			Deduced Metric MC				21ti DI	Dana Lining Managin
			=Reduced Matrix, MS LRRs, unless other			ains.		Pore Lining, M=Matrix. Problematic Hydric Soils ³ :
Histoso		abio to un	Polyvalue Be			RRSTI		
	pipedon (A2)		Thin Dark Su				· —	(A10) (LRR S)
I	istic (A3)		Loamy Mucky					ertic (F18) (outside MLRA 150A,B)
	en Sulfide (A4)		Loamy Gleye	d Matrix (F2)		Piedmont F	loodplain Soils (F19) (LRR P, S, T)
_	d Layers (A5)		x Depleted Mat	' '				Bright Loamy Soils (F20)
	Bodies (A6) (LRR F		Redox Dark S Depleted Dar	,	,		(MLRA 15	,
I —	ucky Mineral (A7) (L l resence (A8) (LRR L		Redox Depre		. ,			Material (TF2) w Dark Surface (TF12)
ı —	uck (A9) (LRR P, T)	•)	Marl (F10) (L		<i>J</i> ,		_ ′	ain in Remarks)
	d Below Dark Surfac	e (A11)	Depleted Och	,	(MLRA 1	51)	` ` '	,
ı —	ark Surface (A12)		Iron-Mangane		. , .		•	of hydrophytic vegetation and
ı —	rairie Redox (A16) (I		· 			, U)		hydrology must be present,
	Mucky Mineral (S1) (Gleyed Matrix (S4)	LKK U, S)	Delta Ochric Reduced Ver			ΛΔ 150R)		listurbed or problematic.
	Redox (S5)		Piedmont Flo					
ı —	d Matrix (S6)		_			•	RA 149A, 153C, 153	D)
	ırface (S7) (LRR P,							
Restrictive	Layer (if observed)	:						
Туре:								
Depth (in	ches):						Hydric Soil Pres	sent? Yes No
Remarks:								

Date: <u>5/22/2</u>1







Photograph Direction South

Comments:

Photograph Direction North

Comments:





Photograph Direction East

Comments:

Photograph Direction West

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: Dominion CVOW		City/County: Virginia	Beach/Virginia Beach	Sampling Date:5/21/2021
Applicant/Owner: Dominion			State: <u>VA</u>	Sampling Point: JD_W_023_PFO
Investigator(s): J. D'Augustine, K. Walls		Section, Township, Ra	ange:	
Landform (hillslope, terrace, etc.): Depre				
Subregion (LRR or MLRA): MLRA 153B o				
Soil Map Unit Name: 1 - Acredale silt loam			NWI classific	
Are climatic / hydrologic conditions on the				
Are Vegetation, Soil, or H			"Normal Circumstances"	present? Yesx_ No
Are Vegetation, Soil, or H	iydrology naturally pr	roblematic? (If n	needed, explain any answe	rs in Remarks.)
SUMMARY OF FINDINGS - At	tach site map showin	g sampling point	locations, transects	, important features, etc.
Hydrophytic Vegetation Present?	Yes X No	is the sample	d Area	
Hydric Soil Present? Wetland Hydrology Present?	Yesx No	within a Wetla	and? Yes <u>x</u>	No
Remarks:	Yes X No	·		Observed Classifications
Nemarks.				Observed Classifications:
				Cowardin:
HYDROLOGY				
			Secondary Indica	ators (minimum of two required)
Wetland Hydrology Indicators: Primary Indicators (minimum of one is r	aguired: check all that apply		X_ Surface Soil	
Surface Water (A1) High Water Table (A2)	Aquatic Fauna (B´ Marl Deposits (B1		Sparsely Ve	getated Concave Surface (B8)
Saturation (A3)	Hydrogen Sulfide		Moss Trim L	
Water Marks (B1)		heres along Living Root		Water Table (C2)
Sediment Deposits (B2)	Presence of Redu		Crayfish Bur	
Drift Deposits (B3)		ction in Tilled Soils (C6)		isible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Thin Muck Surface		X Geomorphic	
Iron Deposits (B5)	Other (Explain in I	Remarks)	Shallow Aqu	itard (D3)
Inundation Visible on Aerial Imager	y (B7)		_x FAC-Neutral	Test (D5)
Water-Stained Leaves (B9)			Sphagnum n	noss (D8) (LRR T, U)
Field Observations:				
Surface Water Present? Yes	Nox Depth (inches	s):		
Water Table Present? Yes	Nox Depth (inches	s):		
Saturation Present? Yes	Nox Depth (inches		etland Hydrology Preser	nt? Yesx No
(includes capillary fringe) Describe Recorded Data (stream gauge	e. monitoring well, aerial pho	tos, previous inspection	s), if available:	
	, p	, ,	,,	
Remarks:				
H				-

		Dominant		Dominance Test worksheet:
Tree Stratum (Plot size: 30 ft)		Species?		Number of Dominant Species
Acer rubrum, Red Maple	30	<u>Yes</u>	<u>FAC</u>	That Are OBL, FACW, or FAC: 7 (A)
2. <u>Liquidambar styraciflua, Sweet-Gum</u>	15	Yes	FAC	Total Number of Dominant
3. Quercus michauxii, Swamp Chestnut Oak	15	<u>Yes</u>	FACW	Species Across All Strata: 8 (B)
4. Carya ovata, Shag-Bark Hickory	15	Yes	_FACU_	
5.				Percent of Dominant Species That Are OBL, FACW, or FAC: 87.5% (A/B)
6				That Ale OBL, FACVV, of FAC (A/B)
o		 = Total Cov		Prevalence Index worksheet:
500/ official covery 27.5				Total % Cover of: Multiply by:
50% of total cover: <u>37.5</u>	20% 01	total cover		OBL species x 1 = 20
Sapling Stratum (Plot size: 30 ft)				FACW species55 x 2 =110
Carpinus caroliniana, American Hornbeam			<u>FAC</u>	FAC species x 2
2				
3				FACU species15 x 4 =60
4				UPL species0 x 5 =0
5				Column Totals:(A)(B)
6.				Providence Index - B(A - 2.60
		= Total Cov		Prevalence Index = B/A =2.60
500/ official courses 20				Hydrophytic Vegetation Indicators:
50% of total cover: 20	20% o t	total cover		1 - Rapid Test for Hydrophytic Vegetation
Shrub Stratum (Plot size: 30 ft)				X 2 - Dominance Test is >50%
Morella cerifera, Southern Bayberry				X 3 - Prevalence Index is ≤3.01
2				Problematic Hydrophytic Vegetation¹ (Explain)
3				
4				¹ Indicators of hydric soil and wetland hydrology must
5				be present, unless disturbed or problematic.
6.				Definitions of Five Vegetation Strata:
		 Total Cov	er	
50% of total cover: 5				Tree – Woody plants, excluding woody vines,
	20% 01	total cover		approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).
Herb Stratum (Plot size: 30 ft)				(1.5 str) of larger in diameter at preast neight (2.511).
Arundinaria tecta, Switch Cane			FACW	Sapling – Woody plants, excluding woody vines,
2. <u>Carex Iurida, Shallow Sedge</u>	10		OBL_	approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.
3. <u>Ludwigia palustris, Marsh Primrose-Willow</u>	10	<u>No</u>	OBL_	than 5 m. (7.5 cm) BBH.
4				Shrub – Woody plants, excluding woody vines,
5				approximately 3 to 20 ft (1 to 6 m) in height.
6				Herb – All herbaceous (non-woody) plants, including
7.				herbaceous vines, regardless of size, and woody
8				plants, except woody vines, less than approximately 3 ft (1 m) in height.
9.				3 it (1 m) in neight.
				Woody vine – All woody vines, regardless of height.
10				
11				
	60 :	= Total Cov	er	
50% of total cover: 30	20% of	total cover	12	
Woody Vine Stratum (Plot size: 30 ft)				
Smilax rotundifolia, Horsebrier	15	Yes	FAC	
2				
3.				
4.				
5				
·		 = Total Cov		Hydrophytic Vegetation
500/ -51-1-1				Present? Yes x No No
50% of total cover: 7.5		total cover	3	
Remarks: (If observed, list morphological adaptations belo	w).			

Sampling Point: JD W 023 PFO

file Desc	ription: (Describ	e to the dep	th needed to docu	ment the in	dicator	or confirm	n the absence	of indicate	ors.)
pth	Matrix			ox Features					
ches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	<u>Texture</u>		Remarks
0-3	10YR 3/2	100%_					Loam		
3-17	10YR 4/2	90%	10YR 4/6	10%	C	M	Sandy clay loam		
17-20	10YR 5/1	100%					Sandy clay loam		
pe: C=Co	oncentration, D=D	epletion, RM	=Reduced Matrix, M	S=Masked S	Sand Gra	ains.	² Location:	PL=Pore L	ining, M=Matrix.
dric Soil I	Indicators: (App	licable to all	LRRs, unless other	rwise noted	d.)		Indicators	for Proble	matic Hydric Soils ³ :
Histosol	(A1)		Polyvalue B				J) 1 cm N	luck (A9) (I	_RR O)
Histic Ep	oipedon (A2)		Thin Dark S	urface (S9) ((LRR S,	T, U)	2 cm M	luck (A10)	(LRR S)
Black Hi	` '		Loamy Mucl			0)			18) (outside MLRA 150A,I
	en Sulfide (A4)		Loamy Gley	`	2)				ain Soils (F19) (LRR P, S, T
	d Layers (A5)	D T III	X Depleted Ma	` '	.,			ilous Bright RA 153B)	Loamy Soils (F20)
-	Bodies (A6) (LRR icky Mineral (A7) (Surface (F6 ark Surface (,		`	arent Mater	ial (TF2)
	esence (A8) (LRR		Redox Depr						k Surface (TF12)
	ick (A9) (LRR P, 1		Marl (F10) (, ,	,			Explain in	, ,
	d Below Dark Surf	-	Depleted Oc	•	VILRA 1	51)			,
Thick Da	ark Surface (A12)		Iron-Mangar	nese Masses	s (F12) (LRR O, P,	T) ³ Indic	ators of hy	drophytic vegetation and
Coast Pr	rairie Redox (A16)	(MLRA 150	A) Umbric Surf	ace (F13) (L	RR P, T	, U)	wet	land hydrol	ogy must be present,
-	lucky Mineral (S1)	(LRR O, S)	Delta Ochrid	. , ,				ess disturbe	ed or problematic.
Sandy G	Gleyed Matrix (S4)		Reduced Ve	. , ,					
	Redox (S5)		Piedmont FI			•	*	452D)	
Stripped	Matrix (S6)	8 T III	_			•	19A) RA 149A, 153C	, 153D)	
Stripped Dark Sur	Matrix (S6) rface (S7) (LRR P		_			•	*	, 153D)	
Stripped Dark Sur strictive L	Matrix (S6) rface (S7) (LRR P Layer (if observe	d):	Anomalous			•	*	, 153D)	
Stripped Dark Sur strictive L Type:	Matrix (S6) rface (S7) (LRR P Layer (if observe	d):	Anomalous			•	RA 149A, 153C		Vos. X No.
Stripped Dark Sur strictive L Type: Depth (inc	Matrix (S6) rface (S7) (LRR P Layer (if observe	d):	Anomalous			•	*		Yes No
Stripped Dark Sur strictive L Type:	Matrix (S6) rface (S7) (LRR P Layer (if observe	d):	Anomalous			•	RA 149A, 153C		Yes ^x No
Stripped Dark Sur strictive L Type: Depth (inc	Matrix (S6) rface (S7) (LRR P Layer (if observe	d):	Anomalous			•	RA 149A, 153C		Yes ^x No
Stripped Dark Sur strictive L Type: Depth (inc	Matrix (S6) rface (S7) (LRR P Layer (if observe	d):	Anomalous			•	RA 149A, 153C		Yes ^x No
Stripped Dark Sur strictive L Type: Depth (inc	Matrix (S6) rface (S7) (LRR P Layer (if observe	d):	Anomalous			•	RA 149A, 153C		Yes x No
Stripped Dark Sur strictive L Type: Depth (inc	Matrix (S6) rface (S7) (LRR P Layer (if observe	d):	Anomalous			•	RA 149A, 153C		Yes x No
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Stripped Dark Sur strictive L Type: Depth (inc	Matrix (S6) rface (S7) (LRR P Layer (if observe	d):	Anomalous			•	RA 149A, 153C		Yes X No
Stripped Dark Sur strictive L Type: Depth (inc	Matrix (S6) rface (S7) (LRR P Layer (if observe	d):	Anomalous			•	RA 149A, 153C		Yes × No
Stripped Dark Sur strictive L Type: Depth (inc	Matrix (S6) rface (S7) (LRR P Layer (if observe	d):	Anomalous			•	RA 149A, 153C		Yes × No
Stripped Dark Sur strictive L Type: Depth (inc	Matrix (S6) rface (S7) (LRR P Layer (if observe	d):	Anomalous			•	RA 149A, 153C		Yes X No
Stripped Dark Sur strictive L Type: Depth (inc	Matrix (S6) rface (S7) (LRR P Layer (if observe	d):	Anomalous			•	RA 149A, 153C		Yes x No
Stripped Dark Sur strictive L Type: Depth (inc	Matrix (S6) rface (S7) (LRR P Layer (if observe	d):	Anomalous			•	RA 149A, 153C		Yesx No
Stripped Dark Sur strictive L Type: Depth (inc	Matrix (S6) rface (S7) (LRR P Layer (if observe	d):	Anomalous			•	RA 149A, 153C		Yesx No
Stripped Dark Sur strictive L Type: Depth (inc	Matrix (S6) rface (S7) (LRR P Layer (if observe	d):	Anomalous			•	RA 149A, 153C		Yesx No
Stripped Dark Sur strictive L Type: Depth (inc	Matrix (S6) rface (S7) (LRR P Layer (if observe	d):	Anomalous			•	RA 149A, 153C		Yesx No
Stripped Dark Sur strictive L Type: Depth (inc	Matrix (S6) rface (S7) (LRR P Layer (if observe	d):	Anomalous			•	RA 149A, 153C		Yesx No
Stripped Dark Sur strictive L Type: Depth (inc	Matrix (S6) rface (S7) (LRR P Layer (if observe	d):	Anomalous			•	RA 149A, 153C		Yesx No
Stripped Dark Sur strictive L Type: Depth (inc	Matrix (S6) rface (S7) (LRR P Layer (if observe	d):	Anomalous			•	RA 149A, 153C		Yes x No
Stripped Dark Sur strictive L Type: Depth (inc	Matrix (S6) rface (S7) (LRR P Layer (if observe	d):	Anomalous			•	RA 149A, 153C		Yes × No
Stripped Dark Sur strictive L Type: Depth (inc	Matrix (S6) rface (S7) (LRR P Layer (if observe	d):	Anomalous			•	RA 149A, 153C		Yes × No
Stripped Dark Sur strictive L Type: Depth (inc	Matrix (S6) rface (S7) (LRR P Layer (if observe	d):	Anomalous			•	RA 149A, 153C		Yes × No

Date: 5/22/21

Feature Name: JD_W_023_PFO





Photograph Direction East

Comments:

Photograph Direction West

Comments:





Photograph Direction South

Comments:

Photograph Direction North

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region

Applicant/Owner: Dominion Applicant/Owner: Dominion Investigator(s):D'Auguztine, K. Walls Section, Township, Range: Local relief (concave, convex, none): None Slope (%):D Subregion (LRR or MLRA):MLRA ISB of LRR T	Project/Site: Dominion CVOW	City/County: Virginia Beach/Vir	rginia Beach Sa	mpling Date:5/21/2021
Investigator(s): . D'Augustine, K. Walls Section, Township, Range:	Applicant/Owner: Dominion	St	tate: <u>VA</u> Sa	mpling Point: JD_W_023_UP
Landform (hillslope, terrace, etc.): Flat	Investigator(s): J. D'Augustine, K. Walls			
Soli Map Unit Name: 3s. Tomolety foam				
Are climatic / hydrologic conditions on the site typical for this time of year? Yesx No (If no, explain in Remarks.) Are Vegetation, Soil, or Hydrology significantly disturbed?				
Are climatic / hydrologic conditions on the site typical for this time of year? Yesx No (If no, explain in Remarks.) Are Vegetation, Soil, or Hydrology significantly disturbed?				
Are Vegetation, Soil, or Hydrology				
Are Vegetation				
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present?				
Hydric Soil Present? Yes No x within a Wetland? Yes No x Observed Classifications: Cowardin: Cowar				,
Hydric Soil Present? Wetland Hydrology Present? Wetland Hydrology Indicators: The data point was taken within an existing cleared utility easement. Wetland Hydrology Indicators: The data point was taken within an existing cleared utility easement. Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) Surface Soil Cracks (B6) Surface Water (A1) Aquatic Fauna (B13) High Water Table (A2) Marl Deposits (B15) (LRR U) Saturation (A3) Hydrogen Sulfide Odor (C1) Sediment Deposits (B2) Presence of Reduced Iron (C4) Drift Deposits (B3) Recent Iron Reduction in Tilled Soils (C6) Algal Mat or Crust (B4) Iron Deposits (B5) Iron Deposits (B5) Other (Explain in Remarks) Shallow Aquitard (D3) FAC-Neutral Test (D5) Shagnum moss (D8) (LRR T, U) Pield Observations: Wetland Hydrology Present? Yes No X Depth (inches): Water Table Present? Yes No X Depth (inches): Graving Mater Secorded Data (stream gauge, monitoring well, aerial photoe, previous inspections), if available:	Hydrophytic Vegetation Present? Yes No X			
Wetland Hydrology Present? Yes			W = -	
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) Surface Water (A1) High Water Table (A2) Saturation (A3) Wetland Hydrogen Sulfide Odor (C1) Saturation Deposits (B1) Presence of Reduced Iron (C4) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Iron Deposits (B5) Other (Explain in Remarks) Field Observations: Surface Water (Present? Yes No Depth (inches): Wetland Hydrology Indicators (minimum of two required) Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Iron Deposits (B5) Other (Explain in Remarks) Shallow Aquitard (D3) FAC-Neutral Test (D5) Sphagnum moss (D8) (LRR T, U) Field Observations: Surface Water Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No X Depth (inches): Wetland Hydrology Present? Yes No X Describe Recorded Date (stream gauge, monitoring well, aerial photos, previous inspections), if available:		within a Wetland?	Yes	No
Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply)	Remarks:		C	Observed Classifications:
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Drift Deposits (B3) Recent Iron Reduction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9) Algal Mat or Crust (B4) Thin Muck Surface (C7) Geomorphic Position (D2) Iron Deposits (B5) Other (Explain in Remarks) Shallow Aquitard (D3) FAC-Neutral Test (D5) Water-Stained Leaves (B9) Sphagnum moss (D8) (LRR T, U) Field Observations: Water Present? Yes Nox Depth (inches): Water Table Present? Yes Nox Depth (inches): Water Table Present? Yes Nox Depth (inches): Wetland Hydrology Present? Yes Nox Depth (inches): Wetland Hydrology Present? Yes Nox Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:				
Algal Mat or Crust (B4)				, ,
Iron Deposits (B5) Other (Explain in Remarks) Shallow Aquitard (D3) Inundation Visible on Aerial Imagery (B7) FAC-Neutral Test (D5) Water-Stained Leaves (B9) Sphagnum moss (D8) (LRR T, U) Field Observations: Surface Water Present? Yes No X Depth (inches): Water Table Present? Yes No X Depth (inches): Saturation Present? Yes No X Depth (inches): Wetland Hydrology Present? Yes No X (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:				
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(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Water Table Present? Yes Nox Depth (inches	3):		
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:		s): Wetland Hy	drology Present?	Yes Nox
		os previous inspections) if avails	able:	
Remarks:	Doosing Non, acital prov	oo, providuo mopodiiono), marano		
Tremans.	Remarks:			
	Nonaiks.			
				1

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

	Absolute Dominant Indicat	or Dominance Test worksheet:
Tree Stratum (Plot size: 30 ft)	% Cover Species? Statu	Number of Dominant Species
1. <u>N/A</u>		That Are OBL, FACW, or FAC:0 (A)
2		Total Number of Dominant
3		Species Across All Strata: 1 (B)
4.		
		Percent of Dominant Species
5		— That Are OBL, FACW, or FAC: 0.0% (A/B)
6		Prevalence Index worksheet:
	0 = Total Cover	Total % Cover of: Multiply by:
50% of total cover:0	20% of total cover: 0	
Sapling Stratum (Plot size: 30 ft)		OBL species 0 x 1 = 0
1. <u>N/A</u>		FACW species 0 x 2 = 0
2.		FAC species 0 x 3 = 0
		FACU species100 x 4 =400
3		UPL species 0 x 5 = 0
4		Column Totals: 100 (A) 400 (B)
5		
6		Prevalence Index = B/A =4.00
	= Total Cover	Hydrophytic Vegetation Indicators:
	20% of total cover: 0	1 - Rapid Test for Hydrophytic Vegetation
Shrub Stratum (Plot size: 30 ft)		2 - Dominance Test is >50%
1. <u>N/A</u>		3 - Prevalence Index is ≤3.0 ¹
2		Problematic Hydrophytic Vegetation ¹ (Explain)
3.		Froblematic Hydrophytic Vegetation (Explain)
4		 Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
5		
6		Definitions of Five Vegetation Strata:
	0 = Total Cover	Tree – Woody plants, excluding woody vines,
50% of total cover:0	20% of total cover:0	approximately 20 ft (6 m) or more in height and 3 in.
Herb Stratum (Plot size: 30 ft)		(7.6 cm) or larger in diameter at breast height (DBH).
1. Lolium perenne, Perennial Rye Grass	90 Yes FACI	Sapling – Woody plants, excluding woody vines,
2. Portulaca oleracea, Little-Hogweed		approximately 20 ft (6 m) or more in height and less
3. Trifolium repens, White Clover		I then 3 in (7.6 cm) DRH
4		Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.
5		— approximately 6 to 25 it (1 to 5 iii) iii iieigiiii
6		Herb - All herbaceous (non-woody) plants, including
7		herbaceous vines, regardless of size, <u>and</u> woody plants, except woody vines, less than approximately
8		3 ft (1 m) in height.
9.		
		Woody vine - All woody vines, regardless of height.
10		-
11		_
	100 = Total Cover	
50% of total cover: 50	20% of total cover: 20	_
Woody Vine Stratum (Plot size: 30 ft)		
1. <u>N/A</u>		
2.		
		_
3		_
4		-
5		— Hydrophytic
	0 = Total Cover	Vegetation
50% of total cover:0	20% of total cover:0	Present?
Remarks: (If observed, list morphological adaptations belo	w).	'

Sampling Point: JD W 023 UP

Sampling Point: <u>JD_W_023_UP</u>

Profile Des	cription: (Describe t	o the depth nee	eded to docum	ent the inc	licator or confirn	n the absence of	indicators.)	
Depth	Matrix		Redox	Features				
(inches)	Color (moist)	% Co	olor (moist)		Type ¹ Loc ²	Texture	Remarks	<u>. </u>
0-20	10YR 4/3	100%				Silty loam		
	1011(4/3							
l ———								
¹Type: C=C	oncentration, D=Depl	etion RM=Redu	ced Matrix MS	=Masked S	and Grains	2l ocation: Pl	.=Pore Lining, M=Ma	triv
	Indicators: (Applica						Problematic Hydri	
1 -								c coms .
Histosol		-	-		(S8) (LRR S, T, U	· —	k (A9) (LRR O)	
	pipedon (A2)		Thin Dark Sur				k (A10) (LRR S)	
	istic (A3)		Loamy Mucky				Vertic (F18) (outside	
	en Sulfide (A4)		Loamy Gleye	d Matrix (F2	?)	Piedmont	Floodplain Soils (F1:	9) (LRR P, S, T)
Stratifie	d Layers (A5)		Depleted Mat	ix (F3)		Anomalou	is Bright Loamy Soils	(F20)
Organic	Bodies (A6) (LRR P,	T, U)	Redox Dark S	urface (F6)		(MLRA	153B)	
5 cm Mi	ucky Mineral (A7) (LR	R P, T, U)	Depleted Darl	Surface (F	7)	Red Pare	nt Material (TF2)	
Muck Pi	resence (A8) (LRR U)		Redox Depres	sions (F8)		Very Shal	low Dark Surface (Ti	- 12)
1 cm Mi	uck (A9) (LRR P, T)		Marl (F10) (L l	RR U)		Other (Ex	plain in Remarks)	
	d Below Dark Surface	(A11)	Depleted Och	-	ILRA 151)		,	
I — ·	ark Surface (A12)			. , ,	(F12) (LRR O, P,	.T) ³ Indicato	ors of hydrophytic veg	etation and
1 —	rairie Redox (A16) (M	LRA 150A)	Umbric Surfac			•	d hydrology must be	·
_	Mucky Mineral (S1) (L		Delta Ochric (disturbed or problen	
1 -	Gleyed Matrix (S4)				LRA 150A, 150B)		distalbed of problem	idilo.
	Redox (S5)				s (F19) (MLRA 14			
		_					(2D)	
	Matrix (S6)		Anomaious B	ignt Loamy	SOIIS (FZU) (IVI LA	RA 149A, 153C, 15	(טנט	
	rface (S7) (LRR P, S	, ı, u)				Ţ		
Restrictive	Layer (if observed):							
Туре:								
Depth (in	ches):					Hydric Soil Pre	esent? Yes	No ^x
Remarks:	,					,		
Remarks.								

Date: <u>5/22/21</u>







Photograph Direction North

Comments:

Photograph Direction South

Comments:





Photograph Direction East

Comments:

Photograph Direction West

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: Dominion CVOW		City/County: Vir	rginia Beach	Sampling Date: 5/19/2021
Applicant/Owner: Dominion				Sampling Point: Jcros W 010
Investigator(s): J. Crosby, M. Buckaley	W			
Landform (hillslope, terrace, etc.): Dep				
Subregion (LRR or MLRA): MLRA 153B				
Soil Map Unit Name: 38 - Tomotley loam			NWI (
Are climatic / hydrologic conditions on t				
				inces" present? Yesx No
Are Vegetation, Soil, or	Hydrology nat	urally problematic?	(If needed, explain any	answers in Remarks.)
SUMMARY OF FINDINGS - A	ttach site map sl	nowing sampling p	oint locations, tran	sects, important features, etc.
Hudronhytic Vegetation Present?	Yesx No			
Hydrophytic Vegetation Present? Hydric Soil Present?	Yesx No	is the Sa	ampled Area	
Wetland Hydrology Present?	Yes x No	WILLIIII a	Wetland? Ye	sx No
Remarks:				Observed Classifications:
				Cowardin: PEM
HYDROLOGY				
Wetland Hydrology Indicators:			Secondar	y Indicators (minimum of two required)
Primary Indicators (minimum of one is	required; check all the	at apply)	Surfa	ce Soil Cracks (B6)
Surface Water (A1)	Aquatic Fa	,		sely Vegetated Concave Surface (B8)
High Water Table (A2)		osits (B15) (LRR U)		age Patterns (B10)
Saturation (A3)		Sulfide Odor (C1)	_	Trim Lines (B16)
Water Marks (B1)		Rhizospheres along Livin		Season Water Table (C2)
Sediment Deposits (B2)	Presence	of Reduced Iron (C4)	_x_ Crayf	ish Burrows (C8)
Drift Deposits (B3)		on Reduction in Tilled Soi		ation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Thin Muck			norphic Position (D2)
Iron Deposits (B5)	Other (Ex	plain in Remarks)	Shallo	ow Aquitard (D3)
Inundation Visible on Aerial Imag	ery (B7)		_x_ FAC-	Neutral Test (D5)
Water-Stained Leaves (B9)	•		Spha	gnum moss (D8) (LRR T, U)
Field Observations:				
Surface Water Present? Yes _	No _x Depth	h (inches):	_	
Water Table Present? Yes _	Nox Depti	n (inches):	_	
Saturation Present? Yes _	Nox Depti		_ Wetland Hydrology	Present? Yesx No
(includes capillary fringe) Describe Recorded Data (stream gau	ge monitoring well as	rial photos, previous insr	pections) if available:	
Describe Neodidea Data (Stream gad	ge, monitoring won, ac	riai priotos, provious map	ections, il available.	
Remarks:				
Nemarks.				

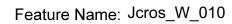
_	Absolute Dominant Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 ft)	% Cover Species? Status	Number of Dominant Species
Pinus taeda, Loblolly Pine	40YesFAC	That Are OBL, FACW, or FAC:4 (A)
2. Acer rubrum, Red Maple	<u>25 Yes FAC</u>	Total Number of Dominant
3. <u>Liquidambar styraciflua, Sweet-Gum</u>	15NoFAC	Species Across All Strata: 4 (B)
4		
5		Percent of Dominant Species That Are OBL_FACW_or FAC: 100.0% (A/B)
6		That Are OBL, FACW, or FAC: 100.0% (A/B)
0.		Prevalence Index worksheet:
500/ -54-4-1 40		Total % Cover of: Multiply by:
	20% of total cover:16	OBL species 40 x 1 = 40
Sapling Stratum (Plot size: 30 ft)		FACW species 0 x 2 = 0
1. <u>N/A</u>		FAC species x2 =
2		FACU species 0 x 4 = 0
3		
4		UPL species 0 x 5 = 0
5		Column Totals:120 (A)280 (B)
6.		Prevalence Index = B/A =2.33
	0 = Total Cover	Hydrophytic Vegetation Indicators:
50% of total cover: 0	20% of total cover: 0	
Shrub Stratum (Plot size: 30 ft)		1 - Rapid Test for Hydrophytic Vegetation x 2 - Dominance Test is >50%
1. <u>N/A</u>		
		X 3 - Prevalence Index is ≤3.01
2		Problematic Hydrophytic Vegetation¹ (Explain)
3		
4		¹ Indicators of hydric soil and wetland hydrology must
5		be present, unless disturbed or problematic.
6		Definitions of Five Vegetation Strata:
	0 = Total Cover	Tree – Woody plants, excluding woody vines,
50% of total cover:0	20% of total cover: 0	approximately 20 ft (6 m) or more in height and 3 in.
Herb Stratum (Plot size: 30 ft)		(7.6 cm) or larger in diameter at breast height (DBH).
1. Woodwardia areolata, Netted Chain Fern	30 Yes OBI	Sanling Woody plants evaluding woody vines
Osmunda spectabilis, Royal Fern		Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less
		than 3 in. (7.6 cm) DBH.
3		Shrub Woody plants, avaluding woody vines
4		Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.
5		
6		Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody
7		plants, except woody vines, less than approximately
8		3 ft (1 m) in height.
9		Woody vine – All woody vines, regardless of height.
10		woody ville - All woody villes, regardless of height.
11		
	40 = Total Cover	
50% of total cover: 20	20% of total cover: 8	
Woody Vine Stratum (Plot size: 30 ft)		
1. N/A		
2		
3		
4		
5		Hydrophytic
	0 = Total Cover	Vegetation Present? Yes × No
50% of total cover: 0	20% of total cover:0_	Present? Yes No
Remarks: (If observed, list morphological adaptations belo	w).	•

Sampling Point: Jcros W 010

SOIL Sampling Point: Jcros W 010

Profile Des	cription: (Describe	to the depth i	needed to docu	ment the i	ndicator	or confirm	the absence o	of indicators.)
Depth	Matrix			ox Features		. 2		
(inches)	Color (moist)		Color (moist)	%	Type ¹	Loc ²	<u>Texture</u>	Remarks
0-20	10YR 5/1	90% 2.5	5R 5/4	_ 10%_	<u>C</u>	PL	Loam	
¹Type: C=C	oncentration, D=Dep	letion RM=Re	duced Matrix M	S=Masked	Sand Gr	ains	2l ocation: l	PL=Pore Lining, M=Matrix.
	Indicators: (Applic					allis.		for Problematic Hydric Soils ³ :
Histoso			Polyvalue B			RRSTII		uck (A9) (LRR O)
	pipedon (A2)	-	Thin Dark S				· · · · · · · · · · · · · · · · · · ·	uck (A10) (LRR S)
	istic (A3)		Loamy Muck					ed Vertic (F18) (outside MLRA 150A,B)
_	en Sulfide (A4)		Loamy Gley	-		,		nt Floodplain Soils (F19) (LRR P, S, T)
Stratifie	d Layers (A5)		x Depleted Ma	atrix (F3)			Anomal	ous Bright Loamy Soils (F20)
Organic	Bodies (A6) (LRR P	, T, U)	Redox Dark	Surface (F	6)		(MLR	A 153B)
5 cm M	ucky Mineral (A7) (L l	RR P, T, U)	Depleted Da				Red Pai	rent Material (TF2)
ı —	resence (A8) (LRR L	J) .	Redox Depr		3)			nallow Dark Surface (TF12)
	uck (A9) (LRR P, T)		Marl (F10) (I	•			Other (E	Explain in Remarks)
I — ·	d Below Dark Surfac	e (A11)	Depleted Oc	, ,	•	,	-) 31	stana af budhambutia usantatian and
ı —	ark Surface (A12)	MI DA 150A\	Iron-Mangar Umbric Surfa				•	ators of hydrophytic vegetation and
ı —	Prairie Redox (A16) (I Mucky Mineral (S1) (I		Delta Ochric	. , ,	,	, 0)		and hydrology must be present, ss disturbed or problematic.
	Gleyed Matrix (S4)	LKK 0, 3)	Reduced Ve		-	OA. 150B)	unie	ss disturbed of problematic.
	Redox (S5)	-	Piedmont Fl				9A)	
ı —	d Matrix (S6)	_					A 149A, 153C,	153D)
	ırface (S7) (LRR P, \$	3, T, U)			•		,	•
Restrictive	Layer (if observed)	:						
Type:			_					
Depth (in	iches):		_				Hydric Soil F	Present? Yes <u>x</u> No
Remarks:	,		_				,	
1								

Date: 5/19/21







Photograph Direction East

Comments:

Photograph Direction North

Comments:





Photograph Direction South

Comments:

Photograph Direction West

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: Dominion CVOW	City/County: Virginia Beach	/Virginia Beach	Sampling Date: 5/19/2021	
Applicant/Owner: Dominion		State: VA	Sampling Point: Jcros W 010 UF	
Investigator(s): J. Crosby, M. Buckalew	Section, Township, Range:			
Landform (hillslope, terrace, etc.): Hillslope				
Subregion (LRR or MLRA): MLRA 153B of LRR T La				
Are climatic / hydrologic conditions on the site typical for this				
			present? Yes x No	
Are Vegetation, Soil, or Hydrology signs and a signs are signs as a sign are sign as a				
Are Vegetation, Soil, or Hydrology na SUMMARY OF FINDINGS - Attach site map s		explain any answe	,	
Hydrophytic Vegetation Present? Yesx No			7,	
Hydric Soil Present? Yes No	is the Sampled Area			
Wetland Hydrology Present? Yes No	within a wetland?	Yes	Nox	
Remarks:			Observed Classifications: Cowardin:	
HYDROLOGY				
Wetland Hydrology Indicators:		Secondary Indic	ators (minimum of two required)	
Primary Indicators (minimum of one is required; check all the	nat apply)	Surface Soi	Cracks (B6)	
Surface Water (A1) Aquatic F	Fauna (B13)	Sparsely Ve	egetated Concave Surface (B8)	
High Water Table (A2) Marl Dep	osits (B15) (LRR U)			
Saturation (A3) Hydroger	n Sulfide Odor (C1)	Moss Trim l		
1 - 1	Rhizospheres along Living Roots (C3)	Dry-Season Water Table (C2)		
	e of Reduced Iron (C4)	Crayfish Bu	, ,	
	on Reduction in Tilled Soils (C6)		/isible on Aerial Imagery (C9)	
	k Surface (C7)	Geomorphic	` '	
	xplain in Remarks)	Shallow Aqu	` '	
Inundation Visible on Aerial Imagery (B7)		FAC-Neutra	` '	
Water-Stained Leaves (B9) Field Observations:		Sphaghum	moss (D8) (LRR T, U)	
Surface Water Present? Yes No _x Dep	th (inches):			
Water Table Present? Yes No _x _ Dep	ı			
Saturation Present? Yes No x Dep		Hydrology Prese	nt? Yes No _x	
(includes capillary fringe)	tir (inches).	Trydrology Frese	it: res No	
Describe Recorded Data (stream gauge, monitoring well, a	erial photos, previous inspections), if a	vailable:		
Remarks:				
No hydrology indicators observed.				
H				

2. Liquidambar styraciflua, Sweet-Gum 2. Acer rubrum, Red Maple 2. No FAC 2. Ves FAC Total Number of Dominant Species Across All Strata: 4. Percent of Dominant Species That Are OBL, FACW, or FAC: 5. Total Number of Dominant Species Across All Strata: 4. Percent of Dominant Species That Are OBL, FACW, or FAC: 5. Total Number of Dominant Species That Are OBL, FACW, or	(-)
1. Pinus taeda, Loblolly Pine 40 Yes FAC That Are OBL, FACW, or FAC: 4 2. Liquidambar styraciflua, Sweet-Gum 20 Yes FAC Total Number of Dominant Species Across All Strata: 4 4. — — — Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% 6. — — — Total Number of Dominant Species That Are OBL, FACW, or FAC: 4 Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species 0 x 1 = 0	(B)
2. Liquidambar styraciflua, Sweet-Gum 2. Acer rubrum, Red Maple 2. No FAC 3. Acer rubrum, Red Maple 4. Percent of Dominant Species Across All Strata: 4. Percent of Dominant Species That Are OBL, FACW, or FAC: Total Number of Dominant Species That Are OBL, FACW, or FAC: Total Number of Dominant Species That Are OBL, FACW, or FAC: Total % Cover of: Total % Cover of: Multiply by: OBL species 0 x 1 = 0	(-)
3. <u>Acer rubrum, Red Maple</u> 4	(-)
4	(-)
5	(A/B)
6	(A/B)
Sapling Stratum (Plot size: 30 ft) Sapling Stratum (Plot size: 30 ft)	
Sabing Stratum (Plot size: 50 It	
1. N/A FACW species 0 x 2 = 0	_
	_
Z	
3	
4.	
5. Column Totals: 90 (A) 270	_ (B)
6 Prevalence Index = B/A = 3.00	
O Table 0 and 0	
nyurophytic vegetation indicators.	
_ Thata rest is rigarding regular.	
Shrub Stratum (Plot size: 30 ft 2 - Dominance Test is >50%	
1. <u>N/A</u> 3 - Prevalence Index is ≤3.0 ¹	
2 Problematic Hydrophytic Vegetation ¹ (Expla	n)
3	
	านระ
6 Definitions of Five Vegetation Strata:	
= Total Cover	
50% of total cover: 0 20% of total cover: 0 approximately 20 ft (6 m) or more in height and	
Herb Stratum (Plot size: 30 ft (7.6 cm) or larger in diameter at breast height (E	BH).
1. N/A Sapling – Woody plants, excluding woody vines	
2. approximately 20 ft RBH.	
than 3 in (7.6 cm) DBH	
3	
4 Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.	
5 approximately 3 to 20 it (1 to 6 iii) in Height.	
6 Herb - All herbaceous (non-woody) plants, inclu	ding
7 herbaceous vines, regardless of size, <u>and</u> wood	
8 plants, except woody vines, less than approximate a second seco	tely
9 Woody vine – All woody vines, regardless of he	ght.
10	
11	
= Total Cover	
50% of total cover: 0 20% of total cover: 0	
Woody Vine Stratum (Plot size: 30 ft)	
1. Toxicodendron radicans, Eastern Poison Ivy 10 Yes FAC	
2. <u>Campsis radicans, Trumpet-Creeper</u> 10 <u>Yes</u> <u>FAC</u>	
3	
4	
5 Hydrophytic	
= Total Cover Vegetation	
50% of total cover: 10 20% of total cover: 4 Present? Yes X No	
Remarks: (If observed, list morphological adaptations below).	

Sampling Point: Jcros W 010_UP

epth	Matrix Color (moist)	%	Redo Color (moist)	ox Features	Type ¹ Loc ²		Domonto	
nches)	Color (moist)		Color (moist)	%	ype Loc		Remarks	
0-20	10YR 4/2					Clay loam		
		 -				2		
	Concentration, D=Dep						PL=Pore Lining, M=Matrix.	.3.
	Indicators: (Applic	able to all Li					for Problematic Hydric Soils	:
Histosol					(S8) (LRR S, 1		luck (A9) (LRR O)	
	pipedon (A2)			urface (S9) (L			fluck (A10) (LRR S)	
	listic (A3)			y Mineral (F1			ed Vertic (F18) (outside MLR	
	en Sulfide (A4)			ed Matrix (F2))		ont Floodplain Soils (F19) (LR	
	d Layers (A5)		Depleted Ma				llous Bright Loamy Soils (F20)	
•	Bodies (A6) (LRR F			Surface (F6)		•	RA 153B)	
	ucky Mineral (A7) (L			rk Surface (F	7)		arent Material (TF2)	
	resence (A8) (LRR L	J)	Redox Depr	, ,			hallow Dark Surface (TF12)	
	uck (A9) (LRR P, T)	- (8.44)	Marl (F10) (I	,		Other	(Explain in Remarks)	
•	d Below Dark Surfac	e (A11)		hric (F11) (M		D = 31		
	ark Surface (A12)	MI DA 450A)	_		(F12) (LRR O,	, ,	ators of hydrophytic vegetation	
	Prairie Redox (A16) (I			ace (F13) (LR			land hydrology must be preser	nt,
_	Mucky Mineral (S1) (LKK (), (S)		(F17) (MLRA			ess disturbed or problematic.	
	Gleyed Matrix (S4) Redox (S5)				.RA 150A, 150			
Salluy r				ooupiaiii Solis	(F19) (MLRA	149A)		
			_	-	Soile (E20) (M	I DA 440A 452C	452D)	
Stripped	d Matrix (S6)	e T 11\	_	-	Soils (F20) (M	LRA 149A, 153C	, 153D)	
Stripped Dark Su	d Matrix (S6) urface (S7) (LRR P, 		_	-	Soils (F20) (M	LRA 149A, 153C	, 153 D)	
Stripped Dark Su strictive	d Matrix (S6)		_	-	Soils (F20) (M	LRA 149A, 153C	, 153D)	
Stripped Dark Su strictive Type:	d Matrix (S6) urface (S7) (LRR P, S Layer (if observed)	:	_	-	Soils (F20) (M			
Stripped Dark Su strictive Type:	d Matrix (S6) urface (S7) (LRR P, 	:	_	-	Soils (F20) (M	LRA 149A, 153C)x
Stripped Dark Su strictive Type: Depth (in	d Matrix (S6) urface (S7) (LRR P, S Layer (if observed)	:	_	-	Soils (F20) (M			ox
Stripped Dark Su strictive Type: Depth (in	d Matrix (S6) urface (S7) (LRR P, S Layer (if observed)	:	_	-	Soils (F20) (M)x
Stripped Dark Su strictive Type: Depth (in	d Matrix (S6) urface (S7) (LRR P, S Layer (if observed)	:	_	-	Soils (F20) (M)x
Stripped Dark Su strictive Type: Depth (in	d Matrix (S6) urface (S7) (LRR P, S Layer (if observed)	:	_	-	Soils (F20) (M) <u>x</u>
Stripped Dark Su strictive Type: Depth (in	d Matrix (S6) urface (S7) (LRR P, S Layer (if observed)	:	_	-	Soils (F20) (M)x
Stripped Dark Su strictive Type: Depth (in	d Matrix (S6) urface (S7) (LRR P, S Layer (if observed)	:	_	-	Soils (F20) (M) <u>x</u>
Stripped Dark Su strictive Type: Depth (in	d Matrix (S6) urface (S7) (LRR P, S Layer (if observed)	:	_	-	Soils (F20) (M)x
Stripped Dark Su strictive Type: Depth (in	d Matrix (S6) urface (S7) (LRR P, S Layer (if observed)	:	_	-	Soils (F20) (M			o_x_
Stripped Dark Su strictive Type: Depth (in	d Matrix (S6) urface (S7) (LRR P, S Layer (if observed)	:	_	-	Soils (F20) (M			> <u>×</u>
Stripped Dark Su strictive Type: Depth (in	d Matrix (S6) urface (S7) (LRR P, S Layer (if observed)	:	_	-	Soils (F20) (M			ox
Stripped Dark Su strictive Type: Depth (in	d Matrix (S6) urface (S7) (LRR P, S Layer (if observed)	:	_	-	Soils (F20) (M			2 ×
Stripped Dark Su strictive Type: Depth (in	d Matrix (S6) urface (S7) (LRR P, S Layer (if observed)	:	_	-	Soils (F20) (M			2 ×
Stripped Dark Su strictive Type: Depth (in	d Matrix (S6) urface (S7) (LRR P, S Layer (if observed)	:	_	-	Soils (F20) (M			2 ×
Stripped Dark Su strictive Type: Depth (in	d Matrix (S6) urface (S7) (LRR P, S Layer (if observed)	:	_	-	Soils (F20) (M			2 ×
Stripped Dark Su strictive Type: Depth (in	d Matrix (S6) urface (S7) (LRR P, S Layer (if observed)	:	_	-	Soils (F20) (M			Dx
Stripped Dark Su strictive Type: Depth (in	d Matrix (S6) urface (S7) (LRR P, S Layer (if observed)	:	_	-	Soils (F20) (M			Dx
Stripped Dark Su strictive Type: Depth (in	d Matrix (S6) urface (S7) (LRR P, S Layer (if observed)	:	_	-	Soils (F20) (M			2 ×
Stripped Dark Su strictive Type: Depth (in	d Matrix (S6) urface (S7) (LRR P, S Layer (if observed)	:	_	-	Soils (F20) (M			Dx
Stripped Dark Su strictive Type: Depth (in	d Matrix (S6) urface (S7) (LRR P, S Layer (if observed)	:	_	-	Soils (F20) (M			2 ×
Stripped Dark Su strictive Type: Depth (in	d Matrix (S6) urface (S7) (LRR P, S Layer (if observed)	:	_	-	Soils (F20) (M			2 ×
Stripped Dark Su strictive Type: Depth (in	d Matrix (S6) urface (S7) (LRR P, S Layer (if observed)	:	_	-	Soils (F20) (M			2 ×
Stripped Dark Su strictive Type:	d Matrix (S6) urface (S7) (LRR P, S Layer (if observed)	:	_	-	Soils (F20) (M			Dx
Stripped Dark Su strictive Type: Depth (in	d Matrix (S6) urface (S7) (LRR P, S Layer (if observed)	:	_	-	Soils (F20) (M			2 x
Stripped Dark Su strictive Type: Depth (in	d Matrix (S6) urface (S7) (LRR P, S Layer (if observed)	:	_	-	Soils (F20) (M			2 x
Stripped Dark Su strictive Type: Depth (in	d Matrix (S6) urface (S7) (LRR P, S Layer (if observed)	:	_	-	Soils (F20) (M			Dx

Date: 5/19/21

Feature Name: Jcros_W_010_UP





Photograph Direction West

Comments:

Photograph Direction South

Comments:





Photograph Direction East

Comments:

Photograph Direction North

U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Atlantic and Gulf Coastal Plain Region

See ERDC/EL TR-07-24; the proponent agency is CECW-CO-R

Requirement Control Symbol EXEMPT (Authority: AR 335-15, paragraph 5-2a)

Project/Site: CVOW	City/County: City of Virgina Beach Sampling Date: 4-15-22			
Applicant/Owner: Dominion Energy	State: VA Sampling Point: Jcross_DW_012			
Investigator(s): Justin Ahn Sec	etion, Township, Range: N/A			
Landform (hillside, terrace, etc.): Depression Local r	relief (concave, convex, none): Concave Slope (%): 0			
Subregion (LRR or MLRA): LRR T, MLRA 153B Lat: 36.791165901666	57 Long: -76.0197264276667 Datum: NAD83			
Soil Map Unit Name: Nimmo loam	NWI classification: None			
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes X No (If no, explain in Remarks.)			
Are Vegetation, Soil, or Hydrology significantly distur	<u> </u>			
Are Vegetation, Soil, or Hydrology naturally problems				
	npling point locations, transects, important features, etc.			
Hydrophytic Vegetation Present? Yes X No	Is the Sampled Area			
Hydrophytic Vegetation Present? Yes X No Hydric Soil Present? Yes X No	within a Wetland? Yes X No			
Wetland Hydrology Present? Yes X No				
Remarks:				
Area located in a ditch, within an agricultural field cultivated with row crops	s.			
HYDROLOGY				
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)			
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)			
Surface Water (A1) Aquatic Fauna (B13)	Sparsely Vegetated Concave Surface (B8)			
High Water Table (A2) Marl Deposits (B15) (LR				
Saturation (A3) Hydrogen Sulfide Odor (· · · · · · · · · · · · · · · · · · ·			
Water Marks (B1) X Oxidized Rhizospheres of the control of the co				
Sediment Deposits (B2) Presence of Reduced Iro				
Drift Deposits (B3) Recent Iron Reduction in Algal Mat or Crust (B4) Thin Muck Surface (C7)	· · · · —			
Iron Deposits (B5) Other (Explain in Remar				
Inundation Visible on Aerial Imagery (B7)	FAC-Neutral Test (D5)			
Water-Stained Leaves (B9)	Sphagnum Moss (D8) (LRR T,U)			
Field Observations:				
Surface Water Present? Yes No _X Depth (inches):				
Surface Water Present? Yes No X Depth (inches): Water Table Present? Yes No X Depth (inches):				
Saturation Present? Yes No X Depth (inches):	Wetland Hydrology Present? Yes X No			
(includes capillary fringe)				
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pr	revious inspections), if available:			
Remarks:				
	ı			

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

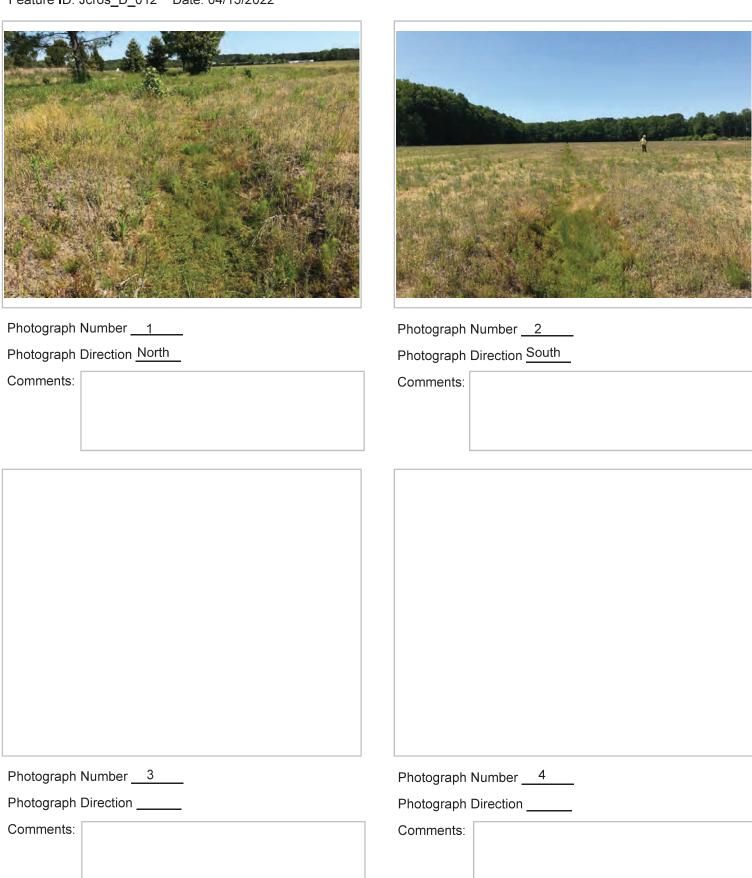
<u>Tree Stratum</u> (Plot size:	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:		
1.				Number of Dominant Species		
2.				That Are OBL, FACW, or FAC:	2	_(A)
3.				Total Number of Dominant		_
4.				Species Across All Strata:	2	_(B)
5.				Percent of Dominant Species		_
6.				That Are OBL, FACW, or FAC:	100.0%	(A/B)
		=Total Cover		Prevalence Index worksheet:		_
50% of total cover:	20%	of total cover:		Total % Cover of:	Multiply by:	
Sapling Stratum (Plot size:)				OBL species x	1 =	
1.				FACW species x	2 =	
2.					3 =	
3.					4 =	
4.				UPL species x	5 =	
5.				Column Totals: (A)		— (B)
6.				Prevalence Index = B/A =		
		=Total Cover		Hydrophytic Vegetation Indicat	ors:	
50% of total cover:		of total cover:		1 - Rapid Test for Hydrophyt		
Shrub Stratum (Plot size:)				X 2 - Dominance Test is >50%	Ü	
1.				3 - Prevalence Index is ≤3.0 ¹		
2.		-		Problematic Hydrophytic Veg	netation ¹ (Expl	ain)
3.					,	J
4.						
5				10.45.45.05.65.004.5	and broken broke	4 1
-				¹ Indicators of hydric soil and wetl present, unless disturbed or prob		must be
0.		=Total Cover		Definitions of Five Vegetation		
50% of total cover:	20%	of total cover:		Tree – Woody plants, excluding v		
Herb Stratum (Plot size: 5' radius)				approximately 20 ft (6 m) or more		3 in.
1. Juncus effusus	70	Yes	OBL	(7.6 cm) or larger in diameter at I	oreast height (DBH).
2. Rhynchospora corniculata	20	Yes	OBL	Sapling – Woody plants, excludi	na woody vine	es.
3. Carex lurida	10	No	OBL	approximately 20 ft (6 m) or more		
4.				than 3 in. (7.6 cm) DBH.		
5.		-		Shrub - Woody Plants, excluding	woodv vines.	
6.				approximately 3 to 20 ft (1 to 6 m		
7.				Hark All bank account (non-unco	-l. ()lt :l	
8.				Herb – All herbaceous (non-woo herbaceous vines, regardless of		
0				plants, except woody vines, less		
10				ft (1 m) in height.		
11.				Woody Vine - All woody vines, r	egardless of h	neight.
	100	=Total Cover				
50% of total cover: 5		of total cover:	20			
Woody Vine Stratum (Plot size:)		or total cover.				
1						
3.						
4.	-					
5				Livelyambutia		
5		-Total Cavar		Hydrophytic		
5 50% of total cover:		=Total Cover		Vegetation Present? Yes X	No	

Sampling Point: <u>Jcross_DW_012</u>

SOIL Sampling Point: <u>Jcross_DW_012</u>

		o the depti				ator or co	onfirm the absence	of indicators.)
Depth (in a land)	Matrix			x Featur		1 - 2	T	Damanta
(inches)	Color (moist)		Color (moist)		Type ¹	Loc ²	Texture	Remarks
0-20	10YR 4/1	90	7.5YR 5/8	10	C	_PL_	Loamy/Clayey	Silty Clay Loam
¹ Type: C=Co	ncentration, D=Deple	etion, RM=F	Reduced Matrix, M	 1S=Mas	ked Sand	d Grains.	² Location:	PL=Pore Lining, M=Matrix.
Hydric Soil I	ndicators: (Applicat	ole to all Li	RRs, unless othe	rwise n	oted.)		Indicators	for Problematic Hydric Soils ³ :
Histosol ((A1)		Thin Dark Su	urface (S	9) (LRR	S, T, U)	1 cm M	luck (A9) (LRR O)
Histic Ep	ipedon (A2)		Barrier Island	ds 1 cm	Muck (S	12)	2 cm M	luck (A10) (LRR S)
Black His	stic (A3)		(MLRA 15	3B, 153	D)		Coast I	Prairie Redox (A16)
	n Sulfide (A4)		Loamy Muck	y Miner	al (F1) (L	.RR O)	(outs	ide MLRA 150A)
Stratified	Layers (A5)		Loamy Gleye	ed Matri	x (F2)		Reduce	ed Vertic (F18)
	Bodies (A6) (LRR, P,		X Depleted Ma				•	side MLRA 150A, 150B)
	cky Mineral (A7) (LRI	R P, T, U)	Redox Dark					ont Floodplain Soils (F19) (LRR P, T)
	esence (A8) (LRR U)		Depleted Da		` '			lous Bright Floodplain Soils (F20)
	ck (A9) (LRR P, T)	(0.4.4)	Redox Depre		(F8)		•	RA 153B)
	Below Dark Surface rk Surface (A12)	(ATT)	Marl (F10) (L		1) /MI D	N 151\		arent Material (F21) hallow Dark Surface (F22)
	airie Redox (A16) (M	I DA 150A\	Depleted Oc Iron-Mangan					side MLRA 138, 152A in FL, 154)
	ucky Mineral (S1) (LF		Umbric Surfa					Islands Low Chroma Matrix (TS7)
	eyed Matrix (S4)	ut 0, 0,	Delta Ochric					RA 153B, 153D)
	edox (S5)		Reduced Ve					Explain in Remarks)
	Matrix (S6)		Piedmont Flo					
	face (S7) (LRR P, S,	T, U)	Anomalous E					
	Below Surface (S8)		(MLRA 14	-				tors of hydrophytic vegetation and
(LRR S	S, T, U)		Very Shallow	/ Dark S	urface (F	-22)	wetla	and hydrology must be present,
			(MLRA 13	8, 152A	in FL, 1	54)	unle	ss disturbed or problematic.
Restrictive L	ayer (if observed):							
Type:								
Depth (in	ches):						Hydric Soil Prese	ent? Yes X No No
Remarks:								

Photograph Page



U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Atlantic and Gulf Coastal Plain Region

See ERDC/EL TR-07-24; the proponent agency is CECW-CO-R

Requirement Control Symbol EXEMPT (Authority: AR 335-15, paragraph 5-2a)

Project/Site: CVOW	City/County: City of Virginia Beach Sampling Date: 4/12/2022
Applicant/Owner: Dominion Energy	State: VA Sampling Point: Jcross_DW_013
Investigator(s): Justin Ahn Sec	ction, Township, Range: N/A
Landform (hillside, terrace, etc.): Depression Local	relief (concave, convex, none): Concave Slope (%): 0
Subregion (LRR or MLRA): LRR T, MLRA 153B Lat: 36.791105001833	33 Long: -76.0204051266667 Datum: NAD83
Soil Map Unit Name: Nimmo loam	NWI classification: None
Are climatic / hydrologic conditions on the site typical for this time of year?	
Are Vegetation, Soil, or Hydrology significantly distur	
Are Vegetation, Soil, or Hydrology naturally problems	
	mpling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes X No	Is the Sampled Area
Hydric Soil Present? Yes X No	within a Wetland? Yes X No
Wetland Hydrology Present? Yes X No	<u>/</u>
Remarks:	
Area located in a ditch located within an agricultural field cultivated with ro	ow crops. Area determined to be a PEM wetland.
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) — Aquatic Fauna (B13)	Sparsely Vegetated Concave Surface (B8)
High Water Table (A2) Marl Deposits (B15) (LF	
Saturation (A3) Hydrogen Sulfide Odor	<u> </u>
Water Marks (B1) Sediment Deposits (B2) X Oxidized Rhizospheres Presence of Reduced Ir	
Drift Deposits (B3) Presence of Reduced in Recent Iron Reduction i	<u> </u>
Algal Mat or Crust (B4) Thin Muck Surface (C7)	
Iron Deposits (B5) Other (Explain in Remai	- · · · · · · · · · · · · · · · · · · ·
Inundation Visible on Aerial Imagery (B7)	X FAC-Neutral Test (D5)
Water-Stained Leaves (B9)	Sphagnum Moss (D8) (LRR T,U)
Field Observations:	
Surface Water Present? Yes No X Depth (inches):	: <u></u>
Water Table Present? Yes No X Depth (inches):	
Saturation Present? Yes No X Depth (inches):	: Wetland Hydrology Present? Yes X No
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, p	revious inspections), if available:
Remarks:	

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

	Absolute	Dominant	Indicator	
Tree Stratum (Plot size:)	% Cover	Species?	Status	Dominance Test worksheet:
1.				Number of Dominant Species
2.				That Are OBL, FACW, or FAC:1 (A)
3				Total Number of Dominant
Δ				Species Across All Strata: 1 (B)
5.				Percent of Dominant Species
6.				That Are OBL, FACW, or FAC: 100.0% (A/B)
		Total Cover		Prevalence Index worksheet:
50% of total cover:		of total cover:		Total % Cover of: Multiply by:
Sapling Stratum (Plot size:)		or total cover.		OBL species x 1 =
1.				FACW species x2 =
2.				FAC species x 3 =
3				FACU species x 4 =
4				UPL species x 5 =
5				Column Totals: (A) (B)
6				Prevalence Index = B/A =
	=	Total Cover		Hydrophytic Vegetation Indicators:
50% of total cover:	20%	of total cover:		1 - Rapid Test for Hydrophytic Vegetation
Shrub Stratum (Plot size:)				X 2 - Dominance Test is >50%
4				3 - Prevalence Index is ≤3.0 ¹
				Problematic Hydrophytic Vegetation ¹ (Explain)
3.				- 1 resistantial of Tydrophylio Vogetation (Explain)
·				
4.				
5				¹ Indicators of hydric soil and wetland hydrology must be
6				present, unless disturbed or problematic.
	=	Total Cover		Definitions of Five Vegetation Strata:
F00/ -ft-t-l				1
50% of total cover:	20%	of total cover:		Tree – Woody plants, excluding woody vines,
Herb Stratum (Plot size: 5' radius)	20%	of total cover:		approximately 20 ft (6 m) or more in height and 3 in.
	20% 80	of total cover: Yes	OBL	
Herb Stratum (Plot size: 5' radius)			OBL OBL	approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).
Herb Stratum (Plot size: 5' radius) 1. Juncus effusus	80	Yes		approximately 20 ft (6 m) or more in height and 3 in.
Herb Stratum (Plot size: 5' radius) 1. Juncus effusus 2. Carex lurida 3.	80	Yes		approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines,
Herb Stratum (Plot size: 5' radius) 1. Juncus effusus 2. Carex lurida 3. 4.	80	Yes		approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.
Herb Stratum (Plot size: 5' radius) 1. Juncus effusus 2. Carex lurida 3. 4. 5.	80	Yes		approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub - Woody Plants, excluding woody vines,
Herb Stratum (Plot size: 5' radius) 1. Juncus effusus 2. Carex lurida 3. 4. 5. 6.	80	Yes		approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub - Woody Plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.
Herb Stratum (Plot size: 5' radius)	80	Yes		approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub - Woody Plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including
Herb Stratum (Plot size: 5' radius) 1. Juncus effusus 2. Carex lurida 3. 4. 5. 6. 7. 8. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4	80	Yes		approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub - Woody Plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody
Herb Stratum (Plot size: 5' radius)	80	Yes		approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub - Woody Plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3
Herb Stratum (Plot size: 5' radius) 1. Juncus effusus 2. Carex lurida 3. 4. 5. 6. 7. 8. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4	80	Yes		approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub - Woody Plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
Herb Stratum (Plot size: 5' radius)	80	Yes		approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub - Woody Plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3
Herb Stratum (Plot size: 5' radius)	80 10	Yes		approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub - Woody Plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
Herb Stratum (Plot size: 5' radius)	80 10 	Yes No		approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub - Woody Plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
Herb Stratum (Plot size: 5' radius)	80 10 	Yes No Total Cover	OBL	approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub - Woody Plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
Herb Stratum (Plot size: 5' radius)	80 10 	Yes No Total Cover	OBL	approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub - Woody Plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
Herb Stratum (Plot size: 5' radius)	80 10 	Yes No Total Cover	OBL	approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub - Woody Plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
Herb Stratum (Plot size: 5' radius)	80 10 	Yes No Total Cover	OBL	approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub - Woody Plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
Herb Stratum (Plot size: 5' radius)	80 10 	Yes No Total Cover	OBL	approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub - Woody Plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
Herb Stratum (Plot size: 5' radius)	80 10 	Yes No Total Cover	OBL	approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub - Woody Plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
Herb Stratum (Plot size: 5' radius)		Yes No Total Cover of total cover:	OBL	approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub - Woody Plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody Vine – All woody vines, regardless of height.
Herb Stratum (Plot size: 5' radius)		Yes No Provided the second of	OBL	approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub - Woody Plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody Vine – All woody vines, regardless of height. Hydrophytic Vegetation
Herb Stratum (Plot size: 5' radius)		Yes No Total Cover of total cover:	OBL	approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub - Woody Plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody Vine – All woody vines, regardless of height.

Sampling Point: <u>Jcross_DW_013</u>

SOIL Sampling Point: <u>Jcross_DW_013</u>

	ription: (Describe to	the dept				ator or co	onfirm the absence	of indicators.)
Depth	Matrix			x Featur		1 - 2	T	Damanta
(inches)	Color (moist)		Color (moist)		Type ¹	Loc ²	Texture	Remarks
0-20	10YR 5/1	85	7.5YR 5/8	15	C	_PL_	Loamy/Clayey	Silty Clay Loam
¹ Type: C=Co	ncentration, D=Deple	etion, RM=I	Reduced Matrix, M	 1S=Mas	ked Sand	d Grains.	² Location:	PL=Pore Lining, M=Matrix.
Hydric Soil I	ndicators: (Applicat	le to all L	RRs, unless othe	rwise n	oted.)		Indicators	for Problematic Hydric Soils ³ :
Histosol ((A1)		Thin Dark Su	urface (S	9) (LRR	S, T, U)	1 cm M	luck (A9) (LRR O)
Histic Ep	ipedon (A2)		Barrier Island	ds 1 cm	Muck (S	12)	2 cm M	luck (A10) (LRR S)
Black His	stic (A3)		(MLRA 15	3B, 153	D)		Coast I	Prairie Redox (A16)
	n Sulfide (A4)		Loamy Muck	y Miner	al (F1) (L	.RR O)	(outs	ide MLRA 150A)
	Layers (A5)		Loamy Gleye	ed Matri	x (F2)		Reduce	ed Vertic (F18)
	Bodies (A6) (LRR, P,		X Depleted Ma				•	ide MLRA 150A, 150B)
	cky Mineral (A7) (LRI	R P, T, U)	Redox Dark					ont Floodplain Soils (F19) (LRR P, T)
	esence (A8) (LRR U)		Depleted Da		` '			lous Bright Floodplain Soils (F20)
	ck (A9) (LRR P, T)	(444)	Redox Depre		(F8)		•	RA 153B)
	Below Dark Surface	(A11)	Marl (F10) (L		1) /MI D	N 151\		arent Material (F21)
	rk Surface (A12) airie Redox (A16) (M l	DA 150A)	Depleted Oc Iron-Mangan					hallow Dark Surface (F22) side MLRA 138, 152A in FL, 154)
	ucky Mineral (S1) (LF		Umbric Surfa					Islands Low Chroma Matrix (TS7)
	leyed Matrix (S4)	ut 0, 0,	Delta Ochric					RA 153B, 153D)
	edox (S5)		Reduced Ve					Explain in Remarks)
	Matrix (S6)		Piedmont Flo					
	face (S7) (LRR P, S,	T, U)	Anomalous E					
Polyvalue	e Below Surface (S8)		(MLRA 14	-				tors of hydrophytic vegetation and
(LRR S	S, T, U)		Very Shallow	/ Dark S	Surface (F	-22)	wetla	and hydrology must be present,
			(MLRA 13	8, 152A	in FL, 1	54)	unle	ss disturbed or problematic.
Restrictive L	ayer (if observed):							
Type:								
Depth (in	ches):						Hydric Soil Prese	ent? Yes X No
Remarks:							!	

Photograph Page

Feature ID: Jcros-DW-013 Date 04/12/2022



Photograph Number __1 ___ Photograph Direction North__





Photograph Number 2 Photograph Direction East

Comments:



Photograph Number 3
Photograph Direction South

Comments:



Photograph Number 4

Photograph Direction West

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: Dominion CVOW	City/County: Virginia B	Beach	Sampling Date: 4/5/2022
Applicant/Owner: Dominion		State: <u>VA</u>	Sampling Point: KH_W_02
Investigator(s): Katelyn Hoisington	Section, Township, Rar	nge:	- CES - CONTY
Landform (hillslope, terrace, etc.): Toe of a slope			
Subregion (LRR or MLRA):	36.748418 L	Long:	-76.14953 Datum: WGS84
Soil Map Unit Name: Acredale silt loam			
Are climatic / hydrologic conditions on the site typical for this time of ye			
Are Vegetationx, Soil, or Hydrology significantly			
Are Vegetation, Soil, or Hydrology naturally pro	oblematic? (If ne	eeded, explain any answer	s in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing	sampling point lo	ocations, transects,	important features, etc.
Hydrophytic Vegetation Present?	Is the Sampled		No. Y
Wetland Hydrology Present? Yesx No	within a Wetlan	na? Yes	Nox
Remarks: Moved area adjacent to road	·		Observed Classifications: Cowardin: PEM
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Indicat	tors (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)		Surface Soil C	Cracks (B6)
Surface Water (A1) Aquatic Fauna (B1	3)	Sparsely Veg	etated Concave Surface (B8)
Marl Deposits (B15	i) (LRR U)	Drainage Patt	erns (B10)
x Saturation (A3) x Hydrogen Sulfide C	Odor (C1)	Moss Trim Lir	nes (B16)
Water Marks (B1) X Oxidized Rhizosph	eres along Living Roots		Vater Table (C2)
Sediment Deposits (B2) Presence of Reduc	ed Iron (C4)	x Crayfish Burro	ows (C8)
Drift Deposits (B3) Recent Iron Reduc	tion in Tilled Soils (C6)	Saturation Vis	sible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Thin Muck Surface	(C7)	Geomorphic F	Position (D2)
Iron Deposits (B5) Other (Explain in R	emarks)	Shallow Aquit	ard (D3)
Inundation Visible on Aerial Imagery (B7)		x FAC-Neutral	Test (D5)
Water-Stained Leaves (B9)		Sphagnum me	oss (D8) (LRR T, U)
Field Observations:			
Surface Water Present? Yes No _x Depth (inches			
Water Table Present? Yesx No Depth (inches); <u>16</u>		
Saturation Present? Yesx No Depth (inches (includes capillary fringe)): <u>8</u> We	etland Hydrology Present	t? Yesx No
Describe Recorded Data (stream gauge, monitoring well, aerial photo	os, previous inspections	s), if available:	
Remarks:			
Remarks.			
			1
II.			

**	Absolute Dominant Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 ft)	% Cover Species? Status	Number of Dominant Species
		That Are OBL, FACW, or FAC:2 (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: 66.7% (A/B)
6		Prevalence Index worksheet:
	0 = Total Cover	Total % Cover of:Multiply by:
50% of total cover: 0	20% of total cover:0	OBL species5 x 1 =5
Sapling Stratum (Plot size: 30 ft)		FACW species x 1 = 20
1		FAC species
2		FACU species 10 x 4 = 40
3		UPL species 0 x 5 = 0
4		100
5		Column Totals:25 (A)65 (B)
6		Prevalence Index = B/A =2.60
	0 = Total Cover	Hydrophytic Vegetation Indicators:
50% of total cover:0	20% of total cover:0	1 - Rapid Test for Hydrophytic Vegetation
Shrub Stratum (Plot size: 30 ft)		x 2 - Dominance Test is >50%
1		x 3 - Prevalence Index is ≤3.01
2		Problematic Hydrophytic Vegetation¹ (Explain)
3		
4		¹ Indicators of hydric soil and wetland hydrology must
5		be present, unless disturbed or problematic.
6		Definitions of Five Vegetation Strata:
	0 = Total Cover	Tree – Woody plants, excluding woody vines,
50% of total cover: 0	20% of total cover:0	approximately 20 ft (6 m) or more in height and 3 in.
Herb Stratum (Plot size: 30 ft)		(7.6 cm) or larger in diameter at breast height (DBH).
1. Plantago lanceolata, English Plantain	10YesFACU	Sapling – Woody plants, excluding woody vines,
2. Arundinaria gigantea, Giant Cane	<u>10 Yes FACW</u>	approximately 20 ft (6 m) or more in height and less
3. Juncus effusus, Lamp Rush	5YesOBL	than 3 in. (7.6 cm) DBH.
4		Shrub - Woody plants, excluding woody vines,
5		approximately 3 to 20 ft (1 to 6 m) in height.
6		Herb – All herbaceous (non-woody) plants, including
7		herbaceous vines, regardless of size, and woody
8		plants, except woody vines, less than approximately 3 ft (1 m) in height.
9		
10		Woody vine - All woody vines, regardless of height.
11		
	= Total Cover	
50% of total cover:12.5	20% of total cover: 5	
Woody Vine Stratum (Plot size: 30 ft)		
٦		
2.		
3.		
4		
5		II. dans bada
T'-	0 = Total Cover	Hydrophytic Vegetation
50% of total cover:	20% of total cover: 0	Present? Yes x No No
Remarks: (If observed, list morphological adaptations below	- 7A	
Mowed and maintained area.	α).	

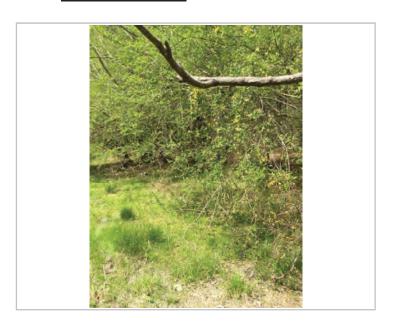
Sampling Point: KH_W_02

SOIL Sampling Point: KH_W_02

rches)	Matrix Color (moist)	%	Color (moist)	ox Features %	Type	Loc ²	Texture	Remarks
0-5	10Yr 4/1	100%	35.61 (1116.51)		.,,,,,		Clay loam	TOTAL
5-15	10yr 4/1	88%	7.5yr 5/8	12%	RM	PL	Clay loam	
15-20	10yr 5/1	77%	10Yr 5/8	23%	RM	PL	Clay	
13 20	1071 371		2011 370					
Histoso Histic E Black H Hydrog Stratifie Organic 5 cm M Muck P 1 cm M Deplete Thick D Coast F Sandy I Sandy I	Concentration, D=Dep Indicators: (Application) Indicators: (Application) Indicators: (Application) Indicators: (Application) Indicators: (A2) Indicators: (A3) Indicators: (A4) Indicators: (A5) Indicators: (A6) Indicators: (A6)	T, U) R P, T, U (A11)	LRRs, unless othe Polyvalue Be Thin Dark Se Loamy Muck Loamy Gleye Depleted Ma Redox Dark Depleted Da Redox Depreded Da Redox Depreded Da Iron-Mangar Delta Ochric Reduced Ve Piedmont Fl	rwise note elow Surface (S9) cy Mineral (ed Matrix (F3) Surface (F4) crit Surface (F4) chric (F11) chric (F13) (et (F17) (ML critic (F18) (coodplain Se	ed.) ce (S8) (L (LRR S, (F1) (LRR F2) 6) (F7) 3) (MLRA 15 es (F12) (I LRR P, T, RA 151) MLRA 15 oils (F19)	RR S, T, U T, U) O) S1) LRR O, P, U) OA, 150B) (MLRA 14	Indicators fo Indica	ent Material (TF2) illow Dark Surface (TF12) kplain in Remarks) ors of hydrophytic vegetation and and hydrology must be present, s disturbed or problematic.
	urface (S7) (LRR P, S Layer (if observed):	, T, U)						
Depth (in	nches):						Hydric Soil Pr	resent? Yesx No
_{marks:} Signif	icant redox fea	rures tł	nroughout					

Date: 4/5/22

Feature Name: KH-W-02





Photograph Direction North

Comments:

Photograph Direction East

Comments:





Photograph Direction South

Comments:

Photograph Direction West

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: CVOW	City/County: C	hesapeake		Sampling Date:	04/05/2022
Applicant/Owner: Dominion		Stat	te: VA	Sampling Point:	KH_W_02-03_UP
Investigator(s): KH, ED, TC	Section, Towns				
Landform (hillslope, terrace, etc.): Slope					oe (%): 0-2
Subregion (LRR or MLRA): MLRA 153B or LRR T Lat					
Soil Map Unit Name: Acredale silt loam		Long			tuiii
Are climatic / hydrologic conditions on the site typical for this t					
Are Vegetation	•			,	/ N.
					<u>* </u>
Are Vegetation, Soil, or Hydrology nat					
SUMMARY OF FINDINGS – Attach site map sl	nowing sampling p	ooint locations	s, transects,	important fe	etc.
Hydrophytic Vegetation Present? Yes No	√ la the S	ampled Area			
Hydric Soil Present? Yes No	V	ampled Area a Wetland?	Voc	No _ √	
Wetland Hydrology Present? Yes No	<u>√</u> within a	i welland?	162	NO <u>\</u>	-
Remarks:	Cowardin Code	e: H	IGM:	Water Ty	ype:
HYDROLOGY		0			· · · · · · · · · · · · · · · · · · ·
Wetland Hydrology Indicators:	-tl-\	·	-	ors (minimum of	two requirea)
Primary Indicators (minimum of one is required; check all that			Surface Soil C		0 ((D0)
Surface Water (A1) Aquatic Fa				etated Concave	Surface (B8)
	osits (B15) (LRR U) Sulfide Odor (C1)		Drainage PattMoss Trim Lir		
	Rhizospheres along Livin	na Roots (C3)		Vater Table (C2)	
	of Reduced Iron (C4)	-	Crayfish Burro		
	on Reduction in Tilled Soi			sible on Aerial Im	nagery (C9)
Algal Mat or Crust (B4) Thin Muck		` ′	Geomorphic F		
Iron Deposits (B5) Other (Ex	plain in Remarks)		Shallow Aquit	ard (D3)	
Inundation Visible on Aerial Imagery (B7)			FAC-Neutral	Γest (D5)	
Water-Stained Leaves (B9)			_ Sphagnum m	oss (D8) (LRR T	, U)
Field Observations:					
Surface Water Present? Yes No _✓ Deptl		_			
Water Table Present? Yes No ✓ Depti	· · ·	_			
Saturation Present? Yes Vo Deptl (includes capillary fringe)	h (inches):12	_ Wetland Hyd	rology Present	? Yes	No _
Describe Recorded Data (stream gauge, monitoring well, ae	rial photos, previous insp	l pections), if availab	le:		
Remarks:					

			Dominant		Dominance Test worksheet:		
Tree Stratum (Plot size:	30)	% Cover	Species?	Status	Number of Dominant Species		
1					That Are OBL, FACW, or FAC:	0	(A)
2					Total Number of Dominant		
3					Species Across All Strata:	0	(B)
4.					openies / toreses / till otrata.		(-)
					Percent of Dominant Species	0%	
5					That Are OBL, FACW, or FAC:	<u> </u>	(A/B)
6					Prevalence Index worksheet:		
7					Total % Cover of:		
8							
		0 :	= Total Cove	er	OBL species		
	50% of total cover:0.0	20% of	total cover:	0.0	FACW species	x 2 =	_
Sapling/Shrub Stratum (Plot size	· · · · · · · · · · · · · · · · · · ·		•		FAC species	x 3 =	_
					FACU species	x 4 =	
1					UPL species		
2					Column Totals: (
3					Column Fotals.	.79	_ (5)
4					Prevalence Index = B/A :	=	
5					Hydrophytic Vegetation Indic		
6.					1 - Rapid Test for Hydroph		
7.						-	
					2 - Dominance Test is >50		
8		_			3 - Prevalence Index is ≤3.		
			= Total Cove		Problematic Hydrophytic V	egetation ¹ (Expla	in)
	50% of total cover: 0.0	20% of	total cover:	0.0			
Herb Stratum (Plot size:	5)				¹ Indicators of hydric soil and we	etland hydrology i	must
1. contractor grass seed mix		55		ND	be present, unless disturbed or	problematic.	
2					Definitions of Four Vegetatio	n Strata:	
3.							
					Tree – Woody plants, excluding		
4					more in diameter at breast height.	int (DBH), regard	less of
5					noight.		
6					Sapling/Shrub – Woody plants		
7					than 3 in. DBH and greater that	n 3.28 ft (1 m) tall	
8					Herb – All herbaceous (non-wo	oody) plants, rega	rdless
9					of size, and woody plants less		ar droop
10.							
					Woody vine – All woody vines	greater than 3.28	3 ft in
					height.		
12							
			= Total Cove				
	50% of total cover: 27.5	20% of	total cover:	11.0			
Woody Vine Stratum (Plot size	:)						
1							
2.							
3							
4							
5					Hydrophytic		
			= Total Cove	er	Vegetation	No ✓	
	50% of total cover: 0.0	20% of	total cover:	0.0	Present? Yes	No	
Remarks: (If observed, list mor	phological adaptations below	w).					
All herbaceous vegetation or	iginates from a planted se	ed mix and	d therefore	wasn't co	ensidered for the dominance tes	st index calculati	ions

Sampling Point: KH_W_02-03_UP

Depth Matrix Redox Features (Inchesis) Scolor (moist) Scolor (mo	Profile Desc	ription: (Describe t	o the depth	needed to docur	nent the i	ndicator	or confirm	the absence	of indicators	5.)	
"Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histic Epipedon (A2) Histic Epipedon (A2) Histic Epipedon (A2) Thin Dark Surface (S9) (LRR S, T, U) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR O) Hydrogen Sulfide (A4) Stratified Layers (A5) Organic Bodies (A6) (LRR P, T, U) Muck Presence (A6) (LRR P, T, U) Depleted Matrix (F3) Anomalous Bright Loamy Soils (F20) Muck Presence (A6) (LRR P, T, U) Depleted Dark Surface (F6) Muck Presence (A6) (LRR V) Pedended Vertic (F11) (MLRA 151) Thick Dark Surface (A11) Depleted Below Dark Surface (A11) Depleted Deric (F11) (MLRA 151) Thick Dark Surface (A12) Coast Prairie Redox (A16) (MLRA 150A) Piedmont Floodplain Soils (F12) Other (Explain in Remarks) Sandy Mucky Mineral (S1) (LRR O, S) Sandy Gleyed Matrix (S4) Reduced Vertic (F18) (MLRA 150A, B) Piedmont Floodplain Soils (F20) (MLRA 153B) Red Parent Material (TF2) Other (Explain in Remarks) Other (Explain in Remarks) Tinck Dark Surface (A11) Umbric Surface (F13) (LRR O, P, T) Sandy Mucky Mineral (S1) (LRR O, S) Sandy Gleyed Matrix (S4) Reduced Vertic (F18) (MLRA 150A, 150B) Piedmont Floodplain Soils (F20) (MLRA 149A, 153C, 153D) Restrictive Layer (if observed): Type: asphalt & gravel Depth (inches): 3.0 Hydric Soil Present? Yes No	Depth	Matrix			x Feature:	S					
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1) Polyvalue Below Surface (S8) (LRR S, T, U) Black Histic (A3) Histosol (A2) Thin Dark Surface (S9) (LRR S, T, U) Black Histic (A3) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) (LRR O) Stratified Layers (A5) Grapic Bodies (A6) (LRR P, T, U) Servatified Layers (A5) Femous Mucky Mineral (A7) (LRR P, T, U) Depleted Dark Surface (F7) Muck Presence (A8) (LRR U) Depleted Dark Surface (F7) Depleted Bolow Dark Surface (A11) Thick Dark Surface (A12) Coast Prairie Redox (A16) (MLRA 150A) Sandy Mucky Mineral (S1) (LRR O, S) Sandy Mucky Mineral (S1) (LRR O, S) Sandy Gleyed Matrix (S4) Sandy Rodox (S5) Piedmont Floodplain Soils (F19) (LRR O, F, T) Umbric Surface (F12) (LRR O, F, T) Polleta Ochric (F17) (MLRA 151) Finch Dark Surface (A12) Depleta Ochric (F17) (MLRA 151) Sandy Mucky Mineral (S1) (LRR O, S) Sandy Redox (A16) Dark Surface (A17) Piedmont Floodplain Soils (F19) (MLRA 149A) Anomalous Bright Loamy Soils (F20) Hydric Soil Present? Yes No Restrictive Layer (if observed): Type: asphalt & gravel Depth (inches): 3.0 Remarks:		Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture		Remarks	
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1)	0-3										
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1)											-
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1)					- ——						<u></u>
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1)											
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1)											_
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1)					- ——						_
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1)											
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1)											
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1)											
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1)											
Histosol (A1)							ains.				
Histic Epipedon (A2)	Hydric Soil I	ndicators: (Applica	ible to all LR	Rs, unless othe	rwise note	ed.)		Indicators	for Problema	atic Hydric	Soils ³ :
Black Histic (A3)		` '		Polyvalue Be	low Surfa	ce (S8) (L	RR S, T, U) 1 cm M	uck (A9) (LR	R O)	
Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Stratified Layers (A5) Depleted Matrix (F3) Anomalous Bright Loamy Soils (F20) Muck Presence (A8) (LRR P, T, U) Pepleted Dark Surface (F7) Muck Presence (A8) (LRR U) Depleted Dark Surface (F7) Marl (F10) (LRR U) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Coast Prairie Redox (A16) (MLRA 150A) Sandy Mucky Mineral (S1) (LRR O, S) Sandy Gleyed Matrix (S4) Sandy Redox CS5) Piedmont Floodplain Soils (F19) (LRR P, S, T) Medox Dark Surface (F6) (MLRA 153B) Red Parent Material (TF2) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Iron-Manganese Masses (F12) (LRR O, P, T) Sandy Mucky Mineral (S1) (LRR O, S) Delta Ochric (F17) (MLRA 151) Reduced Vertic (F18) (LRR O, P, T) wetland hydrology must be present, unless disturbed or problematic. Reduced Vertic (F18) (MLRA 150A, 150B) Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 149A) Stripped Matrix (S6) Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (if observed): Type: asphalt & gravel Depth (inches): 3.0 Hydric Soil Present? Yes No	Histic Ep	pipedon (A2)		Thin Dark Su	ırface (S9)	(LRR S,	T, U)				
Stratified Layers (A5)	Black His	stic (A3)		Loamy Muck	y Mineral	(F1) (LRR	(O)	Reduce	ed Vertic (F18	3) (outside l	MLRA 150A,B)
Organic Bodies (A6) (LRR P, T, U) Redox Dark Surface (F6) Mucky Mineral (A7) (LRR P, T, U) Depleted Dark Surface (F7) Red Parent Material (TF2) Muck Presence (A8) (LRR U) Redox Depressions (F8) Very Shallow Dark Surface (TF12) 1 cm Muck (A9) (LRR P, T) Marl (F10) (LRR U) Other (Explain in Remarks)	Hydroge	n Sulfide (A4)		Loamy Gleye	ed Matrix (F2)					
	Stratified	Layers (A5)			, ,			Anomal	ous Bright Lo	oamy Soils (F20)
Muck Presence (A8) (LRR U)	Organic	Bodies (A6) (LRR P,	T, U)	Redox Dark	Surface (F	6)		(MLR	A 153B)		
Tom Muck (A9) (LRR P, T) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Coast Prairie Redox (A16) (MLRA 150A) Sandy Mucky Mineral (S1) (LRR O, S) Sandy Redox (S5) Sandy Redox (S5) Delta Ochric (F18) (MLRA 150A, 150B) Stripped Matrix (S6) Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (if observed): Type: _asphalt & gravel Depth (inches): _3.0 Marl (F10) (LRR U) Depleted Ochric (F11) (MLRA 151) Liron-Manganese Masses (F12) (LRR O, P, T) Jepleted Ochric (F11) (MLRA 151) Jepleted Ochric (F13) (LRR O, P, T) Jepleted Ochric (F13) (LRR O, P, T) Jepleted Ochric (F13) (LRR P, T, U) Wetland hydrology must be present, unless disturbed or problematic. Marl (F10) (LRR P, T, U) Wetland hydrology must be present, unless disturbed or problematic. Marl (F10) (LRR P, T, U) Wetland hydrology must be present, unless disturbed or problematic. Marl (F10) (LRR P, T) Wetland hydrology must be present, unless disturbed or problematic. Marl (F10) (LRR P, T) Wetland hydrology must be present, unless disturbed or problematic. Marl (F10) (MLRA 150A, 150B) Wetland hydrology must be present, unless disturbed or problematic. Marl (F10) (MLRA 150A, 150B) Wetland hydrology must be present, unless disturbed or problematic. Marl (F10) (MLRA 150A, 150B) Wetland hydrology must be present, unless disturbed or problematic. Marl (F10) (MLRA 150A, 150B) Wetland hydrology must be present, unless disturbed or problematic. Hydrology must be present, Hydrology must be	5 cm Mu	cky Mineral (A7) (LR	R P, T, U)	Depleted Da	rk Surface	(F7)					
Depleted Below Dark Surface (A11) Depleted Ochric (F11) (MLRA 151) Thick Dark Surface (A12) Iron-Manganese Masses (F12) (LRR O, P, T) Indicators of hydrophytic vegetation and Wetland hydrology must be present, wetland hydrology must be present, unless disturbed or problematic. Sandy Mucky Mineral (S1) (LRR O, S) Delta Ochric (F17) (MLRA 151) unless disturbed or problematic. Sandy Gleyed Matrix (S4) Reduced Vertic (F18) (MLRA 150A, 150B) Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 149A) Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D) Restrictive Layer (if observed): Type: _asphalt & gravel Depth (inches): 3.0 Hydric Soil Present? Yes No ✓	Muck Pr	esence (A8) (LRR U))	Redox Depre	essions (F	8)		Very Sh	nallow Dark S	Surface (TF1	2)
Thick Dark Surface (A12)	1 cm Mu	ck (A9) (LRR P, T)		Marl (F10) (L	.RR U)			Other (I	Explain in Re	marks)	
Coast Prairie Redox (A16) (MLRA 150A) Umbric Surface (F13) (LRR P, T, U) wetland hydrology must be present, Sandy Mucky Mineral (S1) (LRR O, S) Delta Ochric (F17) (MLRA 151) unless disturbed or problematic Sandy Gleyed Matrix (S4) Reduced Vertic (F18) (MLRA 150A, 150B) Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 149A) Stripped Matrix (S6) Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D) Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (if observed):	Depleted	Below Dark Surface	(A11)								
Sandy Mucky Mineral (S1) (LRR O, S) Delta Ochric (F17) (MLRA 151) unless disturbed or problematic Sandy Gleyed Matrix (S4) Reduced Vertic (F18) (MLRA 150A, 150B) Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 149A) Stripped Matrix (S6) Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D) Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (if observed):	Thick Da	rk Surface (A12)		Iron-Mangan	ese Mass	es (F12) (LRR O, P,	T) ³ Indica	ators of hydro	phytic vege	tation and
Sandy Gleyed Matrix (S4) Reduced Vertic (F18) (MLRA 150A, 150B) Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 149A) Stripped Matrix (S6) Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D) Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (if observed):	Coast Pr	airie Redox (A16) (N	ILRA 150A)	Umbric Surfa	ce (F13) (LRR P, T	, U)	wetla	and hydrolog	y must be p	resent,
Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 149A) Stripped Matrix (S6) Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D) Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (if observed):	Sandy M	lucky Mineral (S1) (L	RR O, S)	Delta Ochric	(F17) (ML	.RA 151)		unle	ss disturbed	or problema	tic.
Stripped Matrix (S6) Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D) Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (if observed):	Sandy G	leyed Matrix (S4)		Reduced Ve	rtic (F18) (MLRA 15	0A, 150B)				
Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (if observed): Type:asphalt & gravel Depth (inches):3.0	Sandy R	edox (S5)		Piedmont Flo	odplain S	oils (F19)	(MLRA 149	9A)			
Restrictive Layer (if observed): Type: _asphalt & gravel Depth (inches): _3.0	Stripped	Matrix (S6)		Anomalous E	Bright Loar	ny Soils (I	F20) (MLR	A 149A, 153C,	153D)		
Type: _asphalt & gravel Depth (inches): _3.0	Dark Sui	rface (S7) (LRR P, S	, T, U)								
Depth (inches): 3.0 Hydric Soil Present? Yes No V	Restrictive L	ayer (if observed):									
Depth (inches): 3.0 Hydric Soil Present? Yes No V	Type: as	sphalt & gravel									_
Remarks:				_				Hydric Soil I	Present?	Vas	No. ✓
				 ;				Tiyunc 30ii i	resent:		140
Heavily disturbed and back filled area adjacent to road	Remarks:										
	Heavily distu	irbed and back fille	d area adjac	ent to road							
l l											

Photograph Log

Date: ___

Feature ID: KH_W_02_UP



Photograph Number 1__

Photograph Direction North





Photograph Number 2

Photograph Direction South

Comments:



Photograph Number 3

Photograph Direction East

Comments:



Photograph Number 4

Photograph Direction West

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: Dominion CVO	V	City/C	ounty: Virginia Be	ach/Chesapeake	Sampling Date: 4/6/2022
Applicant/Owner: Dominion				State: VA	Sampling Point: KH_W_06
Investigator(s): Katelyn Hoisi	ngton, Erin Deck	Section			Camping Comm
Landform (hillslope, terrace, etc					Slope (%): 0-3
Subregion (LRR or MLRA). ML	_RA 153B of LRR T	Lat. 36.70343	Lon	-76.169311	Datum: WGS84
Soil Map Unit Name: Acredale	e silt loam, 0 to 1 perce	ent slopes		NWI classific	cation: R4SBCx
Are climatic / hydrologic condition					
Are Vegetation $\frac{X}{X}$, Soil $\frac{X}{X}$					
Are Vegetation, Soil					
					s, important features, etc.
Lludraphytic Vegetation Dress	vot? Voc X	No			
Hydrophytic Vegetation Prese Hydric Soil Present?	ent? Yes X Yes x	No	Is the Sampled Ar		
Wetland Hydrology Present?			within a Wetland?	Yes X	No
Remarks:					
Wetland adjacent to relict ephe appears to collect. Wetland is Cowardin class:PFO		side row boundary. A	Artificial berms likely	from construction of e	easement forms bowl where water
HYDROLOGY					
Wetland Hydrology Indicato	rs:			Secondary Indica	ators (minimum of two required)
Primary Indicators (minimum	of one is required; check a	all that apply)			
Surface Water (A1)		tic Fauna (B13)			getated Concave Surface (B8)
High Water Table (A2)		Deposits (B15) (LRF		Drainage Pa	
Saturation (A3)	<u> </u>	ogen Sulfide Odor (C	•	Moss Trim L	` '
Water Marks (B1) Sediment Deposits (B2)	= Oxidiz	zed Rhizospheres al ence of Reduced Iron		Crayfish Bur	Water Table (C2)
Drift Deposits (B3)		nt Iron Reduction in	. ,	= '	isible on Aerial Imagery (C9)
Algal Mat or Crust (B4)		Muck Surface (C7)	Tilled Collo (CO)		Position (D2)
Iron Deposits (B5)		r (Explain in Remark	s)	Shallow Aqu	` '
Inundation Visible on Aeri			,	FAC-Neutral	` '
✓ Water-Stained Leaves (B	9)			Sphagnum r	moss (D8) (LRR T, U)
Field Observations:					
Surface Water Present?	Yes No X [
Water Table Present?	Yes No X [
Saturation Present? (includes capillary fringe)	Yes No _x [Depth (inches):	Wetla	nd Hydrology Preser	nt? Yes X No
Describe Recorded Data (stre	am gauge, monitoring we	II, aerial photos, pre	vious inspections), if	f available:	
Remarks:					
Indirect indicators of	wetland hydrolog	gy likely cause	by microtop	ography.	

	Absolute	Dominant	Indicator	Dominance Test worksheet:	
<u>Tree Stratum</u> (Plot size: 30)		Species?		Number of Dominant Species _	
1. Acer rubrum	25		FAC	That Are OBL, FACW, or FAC: 7 (A)	
2. Carpinus caroliniana	10		FAC	Total Number of Dominant	
3. Pinus taeda	10		FAC	Species Across All Strata: 7 (B)	
4. Liquidambar styraciflua	5		FAC	Descrit of Descriptors Consider	
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/E	3)
6				· · · · · · · · · · · · · · · · · · ·	-)
7.				Prevalence Index worksheet:	
8.				Total % Cover of: Multiply by:	
	50	= Total Cov	/er	OBL species 10 x 1 = 10	
50% of total cover: 25				FACW species $\underline{20}$ $x 2 = \underline{40}$	
	20 /0 01	total cover		FAC species 110 $x 3 = 330$	
Sapling/Shrub Stratum (Plot size: 30)	25	✓	FAC	FACU species $0 x 4 = 0$	
2. Carpinus caroliniana	5		FAC	UPL species $0 x 5 = 0$	
-	- —			Column Totals: 140 (A) 380 (B)
3				(1)	,
4				Prevalence Index = $B/A = 2.71$	
5				Hydrophytic Vegetation Indicators:	_
6				1 - Rapid Test for Hydrophytic Vegetation	
7				x 2 - Dominance Test is >50%	
8				x 3 - Prevalence Index is ≤3.0 ¹	
		= Total Cov	er er	Problematic Hydrophytic Vegetation¹ (Explain)	
50% of total cover: 15				1 Toblematic Hydrophytic Vegetation (Explain)	
Herb Stratum (Plot size: 30				The disease of headring and continued be dealers, and	
1. Arundinaria tecta	15	\checkmark	FACW	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.	
2. Juncus effusus	10		OBL	Definitions of Four Vegetation Strata:	
	. •		FACW	Definitions of Four Vegetation Strata.	
	5			Tree – Woody plants, excluding vines, 3 in. (7.6 cm) of	
4				more in diameter at breast height (DBH), regardless of	f
5				height.	
6				Sapling/Shrub - Woody plants, excluding vines, less	i
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.	
8				Herb – All herbaceous (non-woody) plants, regardless	c
9				of size, and woody plants less than 3.28 ft tall.	,
10					
11.				Woody vine – All woody vines greater than 3.28 ft in	
				height.	
12	30	= Total Cov			
15					
50% of total cover: 15	20% of	total cover	:		
Woody Vine Stratum (Plot size: 30)	_	,	E40		
Smilax rotundifolia	5		FAC		
2					
3					
4					
5				Hydrophytic	
	5	= Total Cov	er	Vegetation	
50% of total cover: 2.5				Present? Yes X No No	
Remarks: (If observed, list morphological adaptations bel			· ,		
	Ow).				
None					

SOIL Sampling Point: KH-W-06

Profile Desc	ription: (Describe	to the dep	th needed to docun	nent the	indicator	or confirm	n the absence	e of indicators.)
Depth	Matrix			x Feature	-	. 2	_	
(inches)	Color (moist)		Color (moist)	%	Type'	Loc ²	Texture	Remarks
0-5	10 YR 3/2	100					Sa Lo	
5-18	10 YR 5/1	90	7.5 YR 4/6	10	С	PL	Cl Lo	Pore linings & matrix concentrations
				-		-		
					-		-	
¹Type: C=Co	oncentration, D=Der	oletion, RM=	Reduced Matrix, MS	S=Maske	d Sand Gr	ains.	² Location:	PL=Pore Lining, M=Matrix.
			LRRs, unless other					for Problematic Hydric Soils ³ :
☐ Histosol	(A1)		Polyvalue Be	low Surfa	ace (S8) (L	.RR S, T, I	U) 🗆 1 cm l	Muck (A9) (LRR O)
Histic Ep	pipedon (A2)		Thin Dark Su					Muck (A10) (LRR S)
Black Hi			Loamy Mucky			R O)		ced Vertic (F18) (outside MLRA 150A,B)
	en Sulfide (A4)		Loamy Gleye		(F2)			nont Floodplain Soils (F19) (LRR P, S, T)
	d Layers (A5)		✓ Depleted Mat		==:			alous Bright Loamy Soils (F20)
	Bodies (A6) (LRR F		Redox Dark S	,				RA 153B)
	icky Mineral (A7) (L esence (A8) (LRR L		Depleted Dar Redox Depre					Parent Material (TF2) Shallow Dark Surface (TF12)
	ick (A9) (LRR P, T)))	Marl (F10) (L		0)			(Explain in Remarks)
	d Below Dark Surfac	ce (A11)	Depleted Och		(MLRA 1	51)	00.	(Explain in Nomano)
	ark Surface (A12)	,	Iron-Mangane				, T) ³ Indio	cators of hydrophytic vegetation and
Coast Pi	rairie Redox (A16) (MLRA 150	A) 🔲 Umbric Surfa	ce (F13)	(LRR P, T	, U)	we	tland hydrology must be present,
	lucky Mineral (S1) (LRR O, S)	Delta Ochric					ess disturbed or problematic.
	Sleyed Matrix (S4)		Reduced Ver					
	Redox (S5)		Piedmont Flo					4505)
	Matrix (S6)	C T II)	Anomalous B	right Loa	my Soils (F20) (MLF	RA 149A, 153C	C, 153D)
	rface (S7) (LRR P, S Layer (if observed)						1	
Type:	Layer (ii observed)	•						
, , <u> </u>	ches):						Hydric Soil	I Present? Yes X No
Remarks:							.,	
N	one							

Date: 4/6/22

Feature Name: KH_W_06





Photograph Direction North

Comments:



Comments:





Photograph Direction East

Comments:

Photograph Direction West

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region

Project/Site: Dominion CVOW			City/County: Chesape	ake	Sampling Date: 4/6/2022		
Applicant/Owner: Dominion				State: VA	Sampling Point: KH_W_06_UP		
Investigator(s): Emily Foster, Katelyn Hoisington			Section, Township, Ra	ange:	KH_W_007_UP		
_andform (hillslope, terrace, etc.); Flat					Slope (%); 0-3		
Subregion (LRR or MLRA): MLRA 1538							
Soil Map Unit Name: Tomotley-Nimmo co							
Are climatic / hydrologic conditions on	7 7 7 P 7	7.7 7 7 7 7	- N . CT		And a control of the		
Are Vegetationx, Soilx, or							
Are Vegetation, Soil, or	r Hydrology	naturally pr	oblematic? (If n	eeded, explain any ans	wers in Remarks.)		
SUMMARY OF FINDINGS - A	Attach site n	nap showing	sampling point	locations, transec	cts, important features, etc.		
Washing Alberta & Alberta	Ga.	v					
Hydrophytic Vegetation Present? Hydric Soil Present?		No x	Is the Sample				
Wetland Hydrology Present?		No x	within a Wetla	nd? Yes _	No x		
Remarks:	165				Observed Classifications:		
Fallow agricultural field drained by	a series of dit	ches.					
ranew agricultural field dramed by	a series or are	circo.			Cowardin: <u>Upland</u>		
ov Acces a services							
HYDROLOGY							
Wetland Hydrology Indicators:	Commence of Section	State Co.		Secondary Inc	licators (minimum of two required)		
Primary Indicators (minimum of one is	s required, chec	k all that apply)			oil Cracks (B6)		
Surface Water (A1)	Aq	uatic Fauna (B1	(3)		Vegetated Concave Surface (B8)		
High Water Table (A2)		arl Deposits (B1			Patterns (B10)		
Saturation (A3)		drogen Sulfide		Moss Trin			
Water Marks (B1)			neres along Living Root		on Water Table (C2)		
Sediment Deposits (B2)		esence of Redu		Crayfish E			
Drift Deposits (B3)			ction in Tilled Soils (C6)	Soils (C6) Saturation Visible on Aerial Imagery (C Geomorphic Position (D2) Shallow Aquitard (D3)			
Algal Mat or Crust (B4)		in Muck Surface					
Iron Deposits (B5) Inundation Visible on Aerial Imag		her (Explain in F	Remarks)	Shallow A			
Water-Stained Leaves (B9)	jery (67)				m moss (D8) (LRR T, U)		
Field Observations:				Opriagriti	miloss (Do) (ERK 1, 0)		
	No X	Denth (inches	s):				
			s);				
			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	otland Hudrology Dros	Hydrology Present? Yes No _ ×		
(includes capillary fringe)	No _x	_ Depth (inches	s):	etiand Hydrology Pres	sent? Yes No _ x		
Describe Recorded Data (stream gau	ige, monitoring	well, aerial phot	os, previous inspection	s), if available:			
Remarks:							

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

Tree Stratum (Blot size: 30 ft		Dominant Species?		Dominance Test	workshe	et:		
Tree Stratum (Plot size: 30 ft) 1)	% Cover	Species	Status	Number of Domin			1	(A)
2				Total Number of	Dominant			
3			$\overline{}$	Species Across A		7 =	2	(B)
4				Percent of Domin	ant Specie	es		
5				That Are OBL, FA	ACW, or F	AC:	50.0%	(A/B)
6		Ŧ / 1 0		Prevalence Inde	x worksh	eet:		
control of the desired	77.7	= Total Cov		Total % Cove	er of:	M	ultiply by:	
50% of total cover: 0	20% of	total cover		OBL species				
Sapling Stratum (Plot size: 30 ft)				FACW species				
1/-			$\overline{}$	FAC species				
2		_	_	FACU species				
3		_	-	UPL species				
4			_	Column Totals:				
5				(44,44)				
6		Talal Ca		Prevalence				_
	0 =			Hydrophytic Veg				
50% of total cover: 0	20% of	total cover		1 - Rapid Te			egetation	
Shrub Stratum (Plot size: 30 ft)				2 - Dominano				
1/			=	X 3 - Prevalence		2373		
2				Problematic	Hydrophyt	ic Vegeta	tion (Expla	ain)
3.			_					
4				Indicators of hyd				must
5		_		be present, unles	A L. MINDLE	-0.000		
b		*		Definitions of Fi	ve vegeta	tion Stra	ita:	
		= Total Cov		Tree - Woody pla				200
50% of total cover: 0	20% of	total cover		approximately 20 (7.6 cm) or larger				
Herb Stratum (Plot size: 30 ft)	20	Vaa	FACIL				100	
† Poa pratensis, Kentucky Blue Grass		Yes		Sapling – Woody approximately 20				
2. Arundinaria gigantea, Giant Cane			FACW	than 3 in. (7.6 cm		more in	neight and	(622
3 Ranunculus sardous, Hairy Buttercup			FAC	Observe Management		anaga sarr		
4 Juncus articulatus, Joint-Leaf Rush				Shrub – Woody i approximately 3 t				
5_ Lolium perenne, Perennial Rye Grass	10	No	FACU					10.5
6. Juncus effusus, Lamp Rush	5	No	_OBL_	Herb – All herbac herbaceous vines				
/		_	_	plants, except wo	ody vines.			
8		-	-	3 ft (1 m) in heigh	it.			
9		_	-	Woody vine - Al	l woody vi	nes, rega	rdless of he	eight,
10			$\overline{}$					0
11		T-(-) O-						
2007 - 51-111 25		= Total Cov						
50% of total cover: 35	20% or	total cover						
Woody Vine Stratum (Plot size: 30 ft)								
1		_						
2								
3			_					
4	_	_	_					
5			_	Hydrophytic				
		= Total Cov		Vegetation Present?	Ves	Ň	lo x	
50% of total cover:0		total cover	0	LIGSOULE	162	11		

Sampling Point: KH-W-06-07-U

(inches)	Matrix Color (moist)	%	Color (moist)		Type ¹	Loc2	Texture	Remarks
0-20	10yr 3/2	100%					Loamy sand	< 70% soil particles masked
	-							
	_					_		-
Nma: C=C	oncentration, D=Dep	lation DM-Da	duced Matrix M	C-Mackad S	Sand Grai	ne	1 ocation	PL=Pore Lining, M=Matrix.
-	Indicators: (Applic					115.		for Problematic Hydric Soils ³ :
_ Histosol	, 그렇게 하는 사람이 아니라 하다.			elow Surface		RS, T, U		Muck (A9) (LRR O)
	pipedon (A2)			urface (S9) (Muck (A10) (LRR S)
	istic (A3)			y Mineral (F	1.12	0)		ed Vertic (F18) (outside MLRA 150A,
	en Sulfide (A4) d Layers (A5)		Loamy Gley Depleted Ma		۷)			ont Floodplain Soils (F19) (LRR P, S, T Alous Bright Loamy Soils (F20)
	Bodies (A6) (LRR F	, T, U)	Redox Dark	The state of the s)			RA 153B)
	icky Mineral (A7) (L		Depleted Da					arent Material (TF2)
	esence (A8) (LRR L uck (A9) (LRR P, T)	1)	Redox Depril Marl (F10) (I	The Control of the Co			the same of the sa	hallow Dark Surface (TF12)
	d Below Dark Surface	e (A11)	Nan (F10) (i		ILRA 151	1)	Other	(Explain in Remarks)
	ark Surface (A12)		Iron-Mangar				T) ^S Indic	ators of hydrophytic vegetation and
	rairie Redox (A16) (I		Umbric Surfa			U)		land hydrology must be present,
	Mucky Mineral (S1) (Gleyed Matrix (S4)	LRR O, S)	Delta Ochric Reduced Ve		Girolayd Mode	A 150R)		ess disturbed or problematic:
	Redox (S5)		Piedmont Fl					
	Matrix (S6)			THE PERSON NAMED IN COLUMN TO			A 149A, 153C	, 153D)
	rface (S7) (LRR P,							
	Layer (if observed)							
Type:	chas):		-				Hydric Soil	Present? Yes No x
Denth (in)							Hydric Son	Flesent 165 NO
Depth (in	70.516.							
Remarks:								
Depth (inc Remarks: None	75 7 7 8 6 7 M							
Remarks:	702.500							
Remarks:								
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Photograph Log

Date: 4/16/22

Feature ID: KH_W_006_UP KH_W_007_UP



Photograph Number ____1

Photograph Direction North

Comments:



Photograph Number ____2

Photograph Direction East

Comments:



Photograph Number ___3

Photograph Direction South

Comments:



Photograph Number ____4___

Photograph Direction West

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: CVOW Commerc	ial	_ City/County: Chesapeake/Cl	hesapeake	Sampling Date:4/11/2022	
Applicant/Owner: Dominion			State: <u>VA</u> Sampling Point: <u>KH_</u> V		
Investigator(s): K. Hoisington,	K. Burdick				
	c.): Depression				
	RA 153B of LRR T Lat:				
	It loam, 0 to 1 percent slopes				
	ons on the site typical for this time of				
Are Vegetationx, Soil	x, or Hydrologyx significant	tly disturbed? Are "Norma	al Circumstances"	present? Yesx No	
Are Vegetation, Soil	, or Hydrology naturally p	problematic? (If needed,	explain any answe	ers in Remarks.)	
SUMMARY OF FINDING	S – Attach site map showir	ng sampling point locati	ions, transects	s, important features, etc.	
Hydrophytic Vegetation Prese	CONTROL OF THE PARTY OF THE PAR	is the Sampled Area			
Hydric Soil Present?	Yesx No	within a Wetland?	Yesx	No	
Wetland Hydrology Present? Remarks:	Yesx No	_			
	line easement adjacent to mowed	field and ag ditch		Observed Classifications:	
Watginal wetland in power	inic casement adjacent to mowed	neid and ag diten		Cowardin: PEM	
HADBOI OCA					
HYDROLOGY			0	-t (i-i	
Wetland Hydrology Indicato		A		ators (minimum of two required)	
	of one is required; check all that apply	A-311		Cracks (B6)	
X Surface Water (A1)	Aquatic Fauna (E			getated Concave Surface (B8)	
High Water Table (A2) X Saturation (A3)	Marl Deposits (B Hydrogen Sulfide		: .	atterns (B10)	
Water Marks (B1)		pheres along Living Roots (C3)		Water Table (C2)	
Sediment Deposits (B2)	Presence of Red		Crayfish Bui		
Drift Deposits (B3)		uction in Tilled Soils (C6)		/isible on Aerial Imagery (C9)	
Algal Mat or Crust (B4)	Thin Muck Surface	Control of the Contro		Position (D2)	
Iron Deposits (B5)	Other (Explain in		Shallow Aqu		
Inundation Visible on Aer		2. 202.002.202. 5	x FAC-Neutra	2000 DOME 18	
Water-Stained Leaves (B	9)		Sphagnum r	moss (D8) (LRR T, U)	
Field Observations:			7 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3		
Surface Water Present?	Yesx No Depth (inche	es):			
Water Table Present?	Yes No _x Depth (inche	es):			
Saturation Present?	Yesx No Depth (inche	es): 0 Wetland	Hydrology Prese	nt? Yesx No	
(includes capillary fringe)	eam gauge, monitoring well, aerial pho	oton provious inspections) if o	railabla:		
Describe Recorded Data (site	am gauge, monitoring well, aerial pric	otos, previous inspections), ii av	rallable.		
Remarks:					
1000 000 000 000 000 000 000 000 000 00	laces throughout the wetland com	nlex			
Starianis water present in p	idees throughout the wetland com	pick.			

	Absolute Dominant Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 ft) 1	% Cover Species? Status	Number of Dominant Species That Are OBL, FACW, or FAC:4 (A)
2		Total Number of Dominant Species Across All Strata:4 (B)
4. 5.		Percent of Dominant Species That Are OBL, FACW, or FAC:100.0% (A/B)
6		Prevalence Index worksheet:
	0 = Total Cover	
50% of total cover:0	20% of total cover: 0	Total % Cover of: Multiply by:
Sapling Stratum (Plot size: 30 ft)		OBL species x 1 = 20
1. Cephalanthus occidentalis, Common Buttonbush	10 Yes OBL	FACW species60 x 2 =120
2		FAC species 5 x 3 = 15
I and the second		FACU species0 x 4 =0
3		UPL species0 x 5 =0
4		Column Totals: <u>85</u> (A) <u>155</u> (B)
5		Column Totals (A) (B)
6	10 = Total Cover	Prevalence Index = B/A =1.82
FOR of total agrees 5		Hydrophytic Vegetation Indicators:
	20% of total cover: 2	1 Rapid Test for Hydrophytic Vegetation
Shrub Stratum (Plot size: 30 ft)		X 2 - Dominance Test is >50%
1. <u>Carex scoparia, Pointed Broom Sedge</u>		X 3 - Prevalence Index is ≤3.01
2. Arundinaria tecta, Switch Cane		Problematic Hydrophytic Vegetation ¹ (Explain)
3. Juncus effusus, Lamp Rush	10NoOBL	100 St. 15 St. 1
4		¹ Indicators of hydric soil and wetland hydrology must
5		be present, unless disturbed or problematic.
6.		Definitions of Five Vegetation Strata:
50% of total cover:35	20% of total cover:14	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in.
Herb Stratum (Plot size: 30 ft)		(7.6 cm) or larger in diameter at breast height (DBH).
1		Sapling - Woody plants, excluding woody vines,
2		approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.
3		than 3 in. (7.0 cm) DBH.
4		Shrub – Woody plants, excluding woody vines,
5		approximately 3 to 20 ft (1 to 6 m) in height.
6.		Herb - All herbaceous (non-woody) plants, including
		herbaceous vines, regardless of size, and woody
7		plants, except woody vines, less than approximately
8		3 ft (1 m) in height.
9		Woody vine - All woody vines, regardless of height.
10		
11		
	0 = Total Cover	
50% of total cover: 0	20% of total cover:0	
Woody Vine Stratum (Plot size: 30 ft)		
1. Rubus pensilvanicus, Pennsylvania Blackberry	5 Yes FAC	
2		
3		
4		
5		Hydrophytic
	5 = Total Cover	Vegetation
50% of total cover: 2.5	20% of total cover: 1	Present? Yes x No
Remarks: (If observed, list morphological adaptations beld	DW).	1

Sampling Point: KH_W_007

Profile Des	cription: (Describe	to the depth	needed to docum	nent the i	indicator	or confirm	the absence of in	dicators.)
Depth	Matrix			x Feature				
(inches)	Color (moist)		Color (moist)	<u>%</u>	Type ¹	Loc ²	<u>Texture</u>	Remarks
0-6	7.5YR 3/2	80% 10	YR 4/2	20%	C	PL_	Clay loam	
6-18	10YR 4/2	95% 7.5	5YR 5/8	5%	C	PL	Clay loam	
-	· ·							
200 200	2 2							
-	: X					-		
<u> 175-17</u>						202		
¹ Type: C=C	Concentration, D=Dep	oletion RM=Re	duced Matrix MS	S=Masked	d Sand Gr	ains	2l ocation: Pl =l	Pore Lining, M=Matrix.
	Indicators: (Applic							Problematic Hydric Soils ³ :
Histoso			Polyvalue Be			.RR S. T. U		
The state of the s	pipedon (A2)		Thin Dark Su				St	(A10) (LRR S)
	listic (A3)		Loamy Muck					ertic (F18) (outside MLRA 150A,B)
Hydrog	en Sulfide (A4)		Loamy Gleye	d Matrix ((F2)		Piedmont F	loodplain Soils (F19) (LRR P, S, T)
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	d Layers (A5)	,	X Depleted Ma					Bright Loamy Soils (F20)
	Bodies (A6) (LRR P		Redox Dark	200000000000000000000000000000000000000			(MLRA 15	· · · · · · · · · · · · · · · · · · ·
A	ucky Mineral (A7) (LI	NO.	Depleted Dai				68000 BBBB WHO	Material (TF2)
	resence (A8) (LRR L) ,	Redox Depre Marl (F10) (L		8)			w Dark Surface (TF12)
	uck (A9) (LRR P, T) ed Below Dark Surfac	ρ (Δ11)	Iviaii (F10) (L Depleted Ocl		(MIRA 1	51)	Other (Expir	ain in Remarks)
	ark Surface (A12)	C (X11)	Iron-Mangan	CONTRACTOR OF THE			T) ³ Indicators	of hydrophytic vegetation and
The state of the s	Prairie Redox (A16) (I	MLRA 150A)	Umbric Surfa			1 1950 10		hydrology must be present,
Sandy	Mucky Mineral (S1) (LRR O, S)	Delta Ochric	(F17) (ML	RA 151)			isturbed or problematic.
Sandy	Gleyed Matrix (S4)		Reduced Ver	tic (F18) ((MLRA 15	0A, 150B)		
No. 20	Redox (S5)	,	Piedmont Flo			in the second		
	d Matrix (S6)		Anomalous E	Bright Loar	my Soils (F20) (MLR /	A 149A, 153C, 153	D)
A CONTRACTOR OF THE PARTY OF TH	urface (S7) (LRR P,	NITO CONTO CONTO					1	
	Layer (if observed)	•						
Type:	2 %		_					v
- 3 3	nches):	11 11 11 11	_				Hydric Soil Pres	ent? Yesx No
Remarks:								

Date: 4/11/22

Feature Name: KH_W_007



Photograph Number ___1

Photograph Direction North

Comments:



Photograph Number 2

Photograph Direction South

Comments:



Photograph Number <u>3</u>

Photograph Direction East

Comments:



Photograph Number ___4

Photograph Direction West

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: CVOW Commercial	City/County: Chesapeake/Ch	iesapeake	Sampling Date: 4/11/2022
Applicant/Owner: Dominion	State: <u>VA</u> Sampling Point: <u>KH_</u>		
Investigator(s): K. Hoisington, K. Burdick	Section, Township, Range:		
Landform (hillslope, terrace, etc.): Depression			
Subregion (LRR or MLRA): MLRA 153B of LRR T Lat:			
Soil Map Unit Name: Tomotley-Bertie complex, 0 to 2 percent slopes			
Are climatic / hydrologic conditions on the site typical for this time of			
Are Vegetationx, Soilx, or Hydrologyx significan			
Are Vegetation, Soil, or Hydrology naturally		explain any answe	
SUMMARY OF FINDINGS – Attach site map showi			#C
Hydrophytic Vegetation Present? Yes _ x No Hydric Soil Present? Yes _ x No No	is the Sampled Area		
Wetland Hydrology Present? Yes x No	within a Wetland?	Yesx	No
Remarks:	_		Observed Classifications:
Wetland in cleared area near NWI index wetland (PFO1Bd) in	between abandoned ditch (no	orth)	Cowardin: PEM
andconcrete lined ditch (south). Standing water throughout a	-	,	Cowardill. 1 Livi
and one of the distance of the	reer neary rain previous day.		
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Indica	ators (minimum of two required)
Primary Indicators (minimum of one is required; check all that app	(v)	Surface Soil	
X Surface Water (A1) Aquatic Fauna (Aquatic Fauna (getated Concave Surface (B8)
X High Water Table (A2) Addatic Faulia (
X Saturation (A3) Hydrogen Sulfid Hydrogen Sulfid			
	spheres along Living Roots (C3)		Water Table (C2)
Sediment Deposits (B2) Presence of Recognition 1		Dry-Season Crayfish Bur	
	fuction in Tilled Soils (C6)		isible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Thin Muck Surfa			Position (D2)
Iron Deposits (B5) Other (Explain i		Shallow Aqu	
Inundation Visible on Aerial Imagery (B7)	Tromano,	× FAC-Neutral	
Water-Stained Leaves (B9)			noss (D8) (LRR T, U)
Field Observations:			
Surface Water Present? Yes _ x No Depth (inch	nes): ()		
Water Table Present? Yes No Depth (inch			
Saturation Present? Yes x No Depth (inch		Hydrology Preser	at? Vos X No
(includes capillary fringe)	veilaliu	nydrology Fresei	nt? Yesx No
Describe Recorded Data (stream gauge, monitoring well, aerial ph	otos, previous inspections), if av	ailable:	
Remarks:			
Ĭ			İ

	Absolute Dominant Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 ft)	% Cover Species? Status	Number of Dominant Species
1		That Are OBL, FACW, or FAC:3 (A)
2		Total Number of Dominant
3		Species Across All Strata: 3 (B)
4.		1,0 1 € 1 4 4 4 4 4 5 5 6 6 6 6 6 6 6 6 6 6 6 6 6
5		Percent of Dominant Species That Are OBL_FACW_or FAC: 100.0% (A/B)
		That Are OBL, FACW, or FAC:100.0% (A/B)
6		Prevalence Index worksheet:
	0 = Total Cover	Total % Cover of: Multiply by:
	20% of total cover: 0	OBL species25 x 1 =25
Sapling Stratum (Plot size: 30 ft)		FACW species x = 50
1		FAC species x 2 = 60
2		
3		FACU species 0 x 4 = 0
4.		UPL species0 x 5 =0
5.		Column Totals:(A)(B)
6		December 20 10 10 10 10 10 10 10 10 10 10 10 10 10
	0 = Total Cover	Prevalence Index = B/A = 1.93 Hydrophytic Vegetation Indicators:
50% of total cover:	20% of total cover: 0	
Shrub Stratum (Plot size: 30 ft)		1 - Rapid Test for Hydrophytic Vegetation
		x 2 - Dominance Test is >50%
1		x 3 - Prevalence Index is ≤3.01
2		Problematic Hydrophytic Vegetation¹ (Explain)
3		
4		¹ Indicators of hydric soil and wetland hydrology must
5		be present, unless disturbed or problematic.
6		Definitions of Five Vegetation Strata:
	0 = Total Cover	Tops 18/s advantants evaluating weather in a
50% of total cover: 0	20% of total cover: 0	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in.
Herb Stratum (Plot size: 30 ft)		(7.6 cm) or larger in diameter at breast height (DBH).
1. Arundinaria tecta, Switch Cane	25YesFACW_	Sapling – Woody plants, excluding woody vines,
	15 Yes OBL	approximately 20 ft (6 m) or more in height and less
Panicum virgatum, Wand Panic Grass		than 3 in. (7.6 cm) DBH.
		Character 200 and a clarater construction and a clarater
	10NoOBL	Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.
5		
6		Herb – All herbaceous (non-woody) plants, including
7		herbaceous vines, regardless of size, <u>and</u> woody plants, except woody vines, less than approximately
8		3 ft (1 m) in height.
9		
10		Woody vine - All woody vines, regardless of height.
11.		
	60 = Total Cover	
50% of total cover: 30	20% of total cover: 12	
Woody Vine Stratum (Plot size: 30 ft)		
	10 Van 546	
1. Rubus pensilvanicus, Pennsylvania Blackberry		
2		
3		
4		
5		Hydrophytic
	10 = Total Cover	Vegetation
50% of total cover: 5	20% of total cover: 2	Present? Yes No
Remarks: (If observed, list morphological adaptations belo		
	Condico	

Sampling Point: KH_W_008

SOIL Sampling Point: KH_W_008

Profile Des	cription: (Describe t	o the depth	needed to docun	nent the i	ndicator	or confirm	the absence of	indicators.)
Depth (inches)	Matrix Color (moist)	%	Redox Color (moist)	x Features %	Type	Loc ²	Texture	Remarks
0-6	10YR 4/2		7.5YR 4/6	15%	C	PL	Clay loam	Romans
6-18	10YR 5/1		SYR 5/6	35%	C	PL	Clay loam	
- 0 10								-
100	· ·					<u> </u>		
-								
	·							
		! !				2		
¹Type: C=C	concentration, D=Depl	etion. RM=F	Reduced Matrix, MS	- ——— S=Masked	Sand Gra	ains.	² Location: PL	_=Pore Lining, M=Matrix.
	Indicators: (Applica							r Problematic Hydric Soils ³ :
Histoso	. 8 - 8		Polyvalue Be				The state of the s	k (A9) (LRR O)
	pipedon (A2) listic (A3)		Thin Dark Su Loamy Mucky					k (A10) (LRR S) Vertic (F18) (outside MLRA 150A,B)
//////////////////////////////////////	en Sulfide (A4)		Loamy Gleye			o,		Floodplain Soils (F19) (LRR P, S, T)
	d Layers (A5)	- 10	× Depleted Mat		· · ·			us Bright Loamy Soils (F20)
100000000000000000000000000000000000000	: Bodies (A6) (LRR P, ucky Mineral (A7) (LR		Redox Dark S Depleted Dar				(MLRA Red Pare	nt Material (TF2)
A	resence (A8) (LRR U		Redox Depre				Very Shal	llow Dark Surface (TF12)
	uck (A9) (LRR P, T)	/A.4.4.\	Marl (F10) (L		(84) 5 8 4		Other (Ex	plain in Remarks)
	d Below Dark Surface ark Surface (A12)	(A11)	Depleted Och	DESCRIPTION OF THE PARTY	- The state of the		T) ³ Indicate	ors of hydrophytic vegetation and
Coast F	Prairie Redox (A16) (N		Umbric Surfa	ce (F13) (LRR P, T		wetlan	d hydrology must be present,
725.000-710035-500-50	Mucky Mineral (S1) (L	RR O, S)	Delta Ochric	A CONTRACTOR	•	0A 450B\	unless	disturbed or problematic.
A	Gleyed Matrix (S4) Redox (S5)		Reduced Veri Piedmont Flo				9A)	
Stripped	d Matrix (S6)		Anomalous B	right Loan	ny Soils (I	20) (MLR	A 149A, 153C, 15	53D)
	urface (S7) (LRR P, S Layer (if observed):	, T, U)					1	
Type:	Layer (II observeu).							
Depth (ir	nches):		_				Hydric Soil Pro	esent? Yesx No
Remarks:	15. 10						18	
Redox feat	ures extremely pron	ninent in so	il. Pore linings we	re 5 YR 5,	/6			

Date: 4/11/22

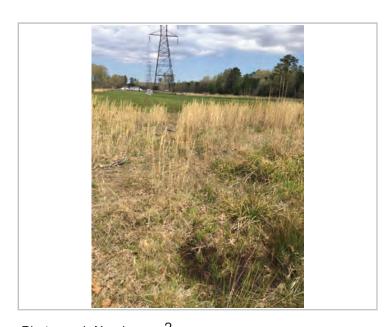
Feature Name: $^{KH}_{-}W_{-}^{008}$



Photograph Number ____1

Photograph Direction North

Comments:



Photograph Number 2

Photograph Direction South

Comments:



Photograph Number 3

Photograph Direction East

Comments:



Photograph Number ___4

Photograph Direction West

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region

Project/Site: Dominion CVOW		City/County: Chesapeake		_ Sampling Date:4/8/2022		
Applicant/Owner: Dominion			_ State: VA	_ Sampling Point: KH_W_008_UP		
Investigator(s): Emily Foster, K	Catelyn Hoisington	Section, Township, Range:	N/A			
Landform (hillslope, terrace, etc.	c.): Flat	Local relief (concave, conv	ex, none): None	Slope (%): 0-3		
	RA 153B of LRR T Lat:					
	limmo complex, 0 to 1 percent slopes					
	ons on the site typical for this time					
	$\frac{x}{x}$, or Hydrology $\frac{x}{x}$ signification					
	, or Hydrology naturall		d, explain any answe			
				•		
SUMMARY OF FINDING	SS – Attach site map show	ving sampling point loca	tions, transects	s, important features, etc.		
Hydrophytic Vegetation Prese	ent? Yesx No					
Hydric Soil Present?	Yes Nox	is the Sampled Are				
Wetland Hydrology Present?	Yes Nox		Yes	No×		
Remarks:				Observed Classifications:		
Open maintained easement	, bordering wetland, with maint	ain vegetation and andropogo	ons	Cowardin: Upland		
'	,			cowardini. Opiana		
LIVERGLOOV						
HYDROLOGY						
Wetland Hydrology Indicato				cators (minimum of two required)		
	of one is required; check all that ap			il Cracks (B6)		
Surface Water (A1)	Aquatic Fauna		Sparsely Ve	egetated Concave Surface (B8)		
High Water Table (A2)	Marl Deposits		Drainage Pa	atterns (B10)		
Saturation (A3)	Hydrogen Sulf	ide Odor (C1)	Moss Trim L	Lines (B16)		
Water Marks (B1)	Oxidized Rhize	ospheres along Living Roots (C3) Dry-Season	Water Table (C2)		
Sediment Deposits (B2)	Presence of R	educed Iron (C4)	Crayfish Bu	rrows (C8)		
Drift Deposits (B3)	Recent Iron Re	eduction in Tilled Soils (C6)				
Algal Mat or Crust (B4)	Thin Muck Sur	face (C7)	Geomorphic Position (D2)			
Iron Deposits (B5)	Other (Explain	in Remarks)	Shallow Aquitard (D3)			
Inundation Visible on Aeri	ial Imagery (B7)		FAC-Neutral Test (D5)			
Water-Stained Leaves (B	9)		Sphagnum	moss (D8) (LRR T, U)		
Field Observations:						
Surface Water Present?	Yes No _ x Depth (inc	ches):				
Water Table Present?	Yes No _x Depth (inc	ches):				
Saturation Present?	Yes No _x Depth (inc	ches): Wetlan	d Hydrology Prese	ent? Yes No _ ×		
(includes capillary fringe)		-hataiaiaif				
Describe Recorded Data (stre	eam gauge, monitoring well, aerial p	onotos, previous inspections), it	available:			
Barradan						
Remarks:						
Easement, no water						
				Н		

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

		Dominant		Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size: <u>30 ft</u>)	% Cover	Species?	Status	Number of Dominant Species
1				That Are OBL, FACW, or FAC:2 (A)
2				Total Number of Dominant
3				Species Across All Strata: 3 (B)
4.				
5				Percent of Dominant Species
				That Are OBL, FACW, or FAC: 66.7% (A/B)
6				Prevalence Index worksheet:
		= Total Cov		Total % Cover of: Multiply by:
50% of total cover:0	20% of	f total cover:	0	OBL species 0 x 1 = 0
Sapling Stratum (Plot size: 30 ft)				
1				FACW species0 x 2 =0
2				FAC species 25 x 3 = 75
3.				FACU species25 x 4 =100
				UPL species0 x 5 =0
4				Column Totals:50 (A)175 (B)
5				
6				Prevalence Index = B/A =3.50
		= Total Cov		Hydrophytic Vegetation Indicators:
50% of total cover: 0	20% of	f total cover:	0	1 - Rapid Test for Hydrophytic Vegetation
Shrub Stratum (Plot size: 30 ft)				X 2 - Dominance Test is >50%
1				3 - Prevalence Index is ≤3.0 ¹
2				Problematic Hydrophytic Vegetation¹ (Explain)
3.				Problematic Hydrophytic Vegetation (Explain)
4				¹ Indicators of hydric soil and wetland hydrology must
5				be present, unless disturbed or problematic.
6				Definitions of Five Vegetation Strata:
	0	= Total Cov	er	Tree – Woody plants, excluding woody vines,
50% of total cover:0	20% of	f total cover:	0	approximately 20 ft (6 m) or more in height and 3 in.
Herb Stratum (Plot size: 30 ft)				(7.6 cm) or larger in diameter at breast height (DBH).
Poa pratensis, Kentucky Blue Grass	20	Yes	FACU	Sapling – Woody plants, excluding woody vines,
Andropogon virginicus, Broom-Sedge				approximately 20 ft (6 m) or more in height and less
				than 3 in. (7.6 cm) DBH.
3. Ranunculus sardous, Hairy Buttercup				Character 10 (and the production of the producti
4. Lolium perenne, Perennial Rye Grass			FACU	Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.
5				approximately a to 20 it (1 to 5 iii) iii neight.
6				Herb - All herbaceous (non-woody) plants, including
7				herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately
8				3 ft (1 m) in height.
9.				
				Woody vine - All woody vines, regardless of height.
10				
11				
		= Total Cov		
50% of total cover: 25	20% of	f total cover:	10	
Woody Vine Stratum (Plot size: 30 ft)				
1				
2.				
3				
4				
5				Hydrophytic
	0	= Total Cov	er	Vegetation Vegetation
50% of total cover:0	20% of	f total cover:	0	Present? Yes No
Remarks: (If observed, list morphological adaptations belo	w).			I
· · · · · · · · · · · · · · · · · · ·	•			

Sampling Point: KH-W-008-UF

Sampling Point: KH_W_008_UP

SOIL

Profile Desc	ription: (Describe	to the depth	needed to docur	nent the i	ndicator	or confirm	the absence	of indicator	s.)	
Depth	Matrix		Redo	x Features						
(inches)	Color (moist)	<u> </u>	Color (moist)	<u>%</u>	Type ¹	Loc ²	Texture		Remarks	
0-6	10yr 3/2	100%					Loamy sand	< 70% soi	l particles m	asked

										-
1Type: C=Cc	ncentration, D=Dep	letion PM=P	educed Matrix Ms	S=Masked	Sand Gra	ine	² Location:	DI =Dore Lin	ning, M=Matri	
	ndicators: (Applic					XIII 5.			natic Hydric	
Histosol			Polyvalue Be		•	RRSTII		luck (A9) (LF	_	
	ipedon (A2)		Thin Dark Su				· —	luck (A3) (L1 luck (A10) (L	-	
Black His			Loamy Muck						,	/ILRA 150A,B)
	n Sulfide (A4)		Loamy Gleye			,				(LRR P, S, T)
Stratified	Layers (A5)		Depleted Ma	trix (F3)			Anoma	lous Bright L	oamy Soils (F20)
	Bodies (A6) (LRR P		Redox Dark	Surface (F	6)		(MLF	RA 153B)		
	cky Mineral (A7) (Li		Depleted Da		. ,			arent Materia		
	esence (A8) (LRR U)	Redox Depre	,	3)				Surface (TF1	2)
	ck (A9) (LRR P, T)	- (844)	Marl (F10) (L	,		.4.	Other (Explain in R	emarks)	
'	Below Dark Surfac rk Surface (A12)	e (ATT)	Depleted Oct Iron-Mangan		-	-	T) ³ Indic	ators of hydr	ophytic veget	tation and
_	airie Redox (A16) (I	VILRA 150A)	_				•	-	gy must be pi	I
	ucky Mineral (S1) (I		Delta Ochric			-,			l or problema	
	leyed Matrix (S4)		Reduced Ver			0A, 150B)				
	edox (S5)		Piedmont Flo	odplain S	oils (F19)	(MLRA 14	9A)			
Stripped	Matrix (S6)		Anomalous E	right Loan	ny Soils (F	20) (MLR	A 149A, 153C,	153D)		
	face (S7) (LRR P, S						,			
	ayer (if observed):									
Type: <u>Ref</u>	_									
Depth (inc	hes): <u>6</u>						Hydric Soil	Present?	Yes	Nox
Remarks:										
None, impa	cted area									

Photograph Log

Date: 4/8/22	Feature ID: ^k	KH_W_008_UP	_	
Photograph Number	1		Photograph	Number2
Photograph Direction				Direction
Comments:			Comments:	
			,	
Photograph Number	3		Photograph	Number4
Photograph Direction			Photograph	Direction
Comments:			Comments:	

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region

Project/Site: Dominion CVOW		City/County. Virginia Beac	h/Virginia Beach	Sampling Date:5/18/202
Applicant/Owner: Dominion			State: VA	Sampling Point: RD_W_001
Investigator(s): R. Delahunty		Section, Township, Range:		
Landform (hillslope, terrace, etc.): Flat				Slope (%): 0
Subregion (LRR or MLRA): MLRA 153B of			2	
Soil Map Unit Name: 1 - Acredate silt toam			NWI classif	
Are climatic / hydrologic conditions on the				14-7-1
Are Vegetation, Soil, or H				present? Yesx No
Are Vegetation, Soil, or I-	lydrology naturally pr	oblematic? (If neede	d, explain any answ	ers in Remarks.)
SUMMARY OF FINDINGS - At	tach site map showing	g sampling point loca	tions, transect	s, important features, etc.
Hydrophytic Vegetation Present? Hydric Soil Present? Welland Hydrology Present?	Yes _ x _ No Yes _ x _ No Yes _ x _ No	is the Samplet Are		No
Remarks:	7772			Observed Classifications:
Data point taken within an existing o	vernead dunty easement.			Cowardin:
HYDROLOGY				
Wetland Hydrology Indicators:	and the second		Secondary Indic	ators (minimum of two required)
Primary Indicators (minimum of one is r	equired; check all that apply)		Surface Soi	Cracks (B6)
Surface Water (A1)	Aquatic Fauna (B1	13)	Sparsely Ve	egetated Concave Surface (B8)
High Water Table (A2)	Marl Deposits (B1	5) (LRR U)	Drainage P	atterns (B10)
× Saturation (A3)	Hydrogen Sulfide	Odor (C1)	Moss Trim	Lines (B16)
Water Marks (B1)	X Oxidized Rhizosph	neres along Living Roots (C3	Dry-Season	Water Table (C2)
Sediment Deposits (B2)	Presence of Redu	ced Iron (C4)	Crayfish Bu	rrows (C8)
Drift Deposits (B3)	Recent Iron Reduc	ction in Tilled Soils (C6)	Saturation \	Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Thin Muck Surface	e (C7)	Geomorphi	Position (D2)
Iron Deposits (B5)	Other (Explain in F	Remarks)	Shallow Aq	uitard (D3)
Inundation Visible on Aerial Imager	y (B7)		* FAC-Neutra	al Test (D5)
× Water-Stained Leaves (B9)			Sphagnum	moss (D8) (LRR T, U)
Field Observations:				
Surface Water Present? Yes	No _x Depth (inches	s):		
Water Table Present? Yes	No _x Depth (inches	3):		
	No Depth (inches	s): 0 Wetlan	nt? Yes_x_ No	
(includes capillary fringe)			and the latest and th	
Describe Recorded Data (stream gauge	acriai phot	os, previous inspections), if	available:	
Remarks:				

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

	Absolute	Dominant	Indicator	Dominance Test	workshee	et:		
Tree Stratum (Plot size; 30 ft)		Species?		Number of Domir That Are OBL, FA	ant Specie	s	1	(A)
2				Total Number of Species Across A			1	(B)
4 5				Percent of Domin That Are OBL, FA		s AC:	100.0%	_ (A/B)
6,				Prevalence Inde	y workshe	et.		
	- A 1 3 7 7	= Total Cov		Total % Cove			ultiply by	
50% of total cover: 0	20% of	total cover	0	OBL species				
Sapling Stratum (Plot size: 30 ft)				FACW species				
1. <u>N/A</u>				FAC species _				
2	_			FACU species		-		
3				UPL species				
4			_	the state of the s				
5				Column Totals:	100	_ (A)	185	(B)
6				Prevalence	Index = B	/A =	1.85	
		= Total Cov		Hydrophytic Ve				_
50% of total cover;0				× 1 - Rapid Te				
Shrub Stratum (Plot size: 30 ft)	- 5000	**********		X 2 - Dominano			egetation	
1. N/A								
2				x 3 - Prevalence			work and on	24.
3.				Problematic	Hydrophyti	c Vegeta	ition (Expi	ain)
				ASSESSED AND TO				
4				Indicators of hyd be present, unles				must
5					DCD11CO3C1	2.5 6 100	010,71	
6			_	Definitions of Fi	ve Vegeta	tion Stra	ita:	
		= Total Cov		Tree - Woody pla				
50% of total cover: 0	20% of	total cover	0	approximately 20				
Herb Stratum (Plot size: 5 ft)				(7.6 cm) or larger	in diamete	r at brea	ist neight (i	ивн).
1. Phragmites australis, Common Reed	75	Yes	FACW	Sapling - Woody				
2. Juncus effusus, Lamp Rush	15	No	OBL	approximately 20		more in	height and	less
3. Carex crinita, Fringed Sedge	10	No	FACW	than 3 in. (7.6 cm	I) DBH.			
4 5				Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.				
6.				Herb - All herbad	ceous (non-	-woody)	plants, incl	udina
7.				herbaceous vines plants, except wo	s, regardles ody vines,	s of size	and wood	dy
				3 ft (1 m) in heigh	11.			
9			_	Woody vine - Al	I woody vir	ies, rega	rdless of h	eight.
10		_	_					
11								
225 Ca. 7 A 10 FF - 42 F		= Total Cov						
50% of total cover: 50	20% of	total cover						
Woody Vine Stratum (Plot size: 30 ft)								
1. <u>N/A</u>								
2								
3								
4								
				Hydrophytic				
5.		40000		Vegetation				
5,	0	= Total Cov	el	Present?	Yes	7.	lo	

Sampling Point: RD W 001

SOIL Sampling Point: RD_W_001

nches) Color (moist)
ype: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1) Histosol (A2) Black Histic (A3) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) (LRR O) Stratified Layers (A5) Corganic Bodies (A6) (LRR P, T, U) Stratified Layers (A5) Depleted Dark Surface (F6) Muck Presence (A8) (LRR P, T, U) Depleted Dark Surface (F10) (LRR U) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Coast Praine Redox (A15) (MLRA 150A) Delta Ochric (F13) (LRR O, T, U) Depleted Dark Surface (F13) (LRR O, P, T) Depleted Below Dark Surface (A12) Coast Praine Redox (A16) (MLRA 150A) Delta Ochric (F13) (LRR O, T, U) Sandy Mucky Mineral (S1) (LRR O, S) Delta Ochric (F17) (MLRA 151) Umbric Surface (F13) (LRR O, P, T, U) Sandy Mucky Mineral (S1) (LRR O, S) Delta Ochric (F17) (MLRA 1515) Unless disturbed or problematic.
ype: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR O) Stratified Layers (A5) Corganic Bodies (A6) (LRR P, T, U) Muck Presence (A8) (LRR P, T) Depleted Dark Surface (F8) Cosst Prairie Redox (A16) (MLRA 150A) Loamy Mark (F10) (LRR O) Redocation: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils ³ : Indicators for Problematic Hydric
ydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1) Histosol (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Organic Bodies (A6) (LRR P, T, U) Muck Presence (A8) (LRR P, T) Muck Presence (A8) (LRR P, T) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Coast Prairie Redox (A16) (MLRA 150A) Polyvalue Below Surface (S8) (LRR S, T, U) Polyvalue Below Surface (S8) (LRR S, T, U) Loamy Gleyed Matrix (S9) Loamy Mucky Mineral (F1) (LRR O) Loamy Mucky Mineral (F1) (LRR O) Pedmont Floodplain Soils (F19) (LRR P, S, T) Anomalous Bright Loamy Soils (F20) (MLRA 153B) Red Parent Material (TF2) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) Polyvalue Below Surface (A12) Iron-Manganese Masses (F12) (LRR O, P, T) Sandy Mucky Mineral (S1) (LRR O, S) Delta Ochric (F17) (MLRA 151) Under Surface or problematic Hydric Soils? 1 cm Muck (A9) (LRR S, T, U) 1 cm Muck (A9) (LRR O, S) Indicators for Problematic Hydric Soils? 1 cm Muck (A9) (LRR S) Reduced Vertic (F18) (outside MLRA 150A) Pledmont Floodplain Soils (F19) (LRR P, S, T) Meduced Vertic (F18) (outside MLRA 150A) Pledmont Floodplain Soils (F19) (LRR P, S, T) Anomalous Bright Loamy Soils (F20) (MLRA 153B) Red Parent Material (TF2) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) Plodicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.
Sandy Gleyed Matrix (S4) Reduced Vertic (F18) (MLRA 150A, 150B) Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 149A)

Date: 5/18/21

Feature Name: RD_W_001





Photograph Direction East

Comments:



Comments:





Photograph Direction South

Comments:

Photograph Direction West

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region

Project/Site: Dominion CVOV	V		City/County: Virg	inia Beach/V	irginia Beach	Sampling Date: _	5/18/2021
Applicant/Owner: Dominion				s	State: VA	Sampling Point: F	RD_W_001_UP
Investigator(s): R. Delahunty			Section, Townshi	p. Range:	4.5		
Landform (hillslope, terrace, et						Slope	e (%): 0
Subregion (LRR or MLRA): MI	2.3		Action of the Address				
		Lat	30.7033		NWI classifi	THE RESIDENCE OF THE PARTY OF T	JIII. WOSO4
Soil Map Unit Name: 1 - Acredal		value of Auri					
Are climatic / hydrologic condit							
Are Vegetation, Soil				Are "Normal	Circumstances"	present? Yesx	No
Are Vegetation, Soil	, or Hydrology	naturally pr	oblematic?	(If needed, ex	xplain any answ	ers in Remarks.)	
SUMMARY OF FINDING	GS - Attach site	map showing	g sampling po	int location	ns, transect	s, important fe	atures, etc.
Liverbala de Venetados Bros	Yes Ves	NA X	= IU. 5	30.00			
Hydrophytic Vegetation Presi Hydric Soil Present?		No ×	Is the San	pled Area			
Wetland Hydrology Present?	1 10 10 10 10 10 10 10 10 10 10 10 10 10	No ×	within a V	/etland?	Yes	No×	
Remarks:	100					Observed Classi	fications
Data point taken within a m	nowed/maintained	grassed area.				Cowardin: PEM	1.10.400.30
						COWAI UIII. PLIVI	
HYDROLOGY							
Wetland Hydrology Indicate	ors:				Secondary Indic	ators (minimum of t	(wo required)
Primary Indicators (minimum		neck all that apply)				Cracks (B6)	
Surface Water (A1)		Aquatic Fauna (B1	53.1			egetated Concave S	surface (B8)
High Water Table (A2)		Marl Deposits (B1				atterns (B10)	1000 (00)
Saturation (A3)		Hydrogen Sulfide			Moss Trim I		
Water Marks (B1)			neres along Living	Roots (C3)		Water Table (C2)	
Sediment Deposits (B2)		Presence of Redu			Crayfish Bu		
Drift Deposits (B3)			ction in Tilled Soils	(C6)	Saturation \	/isible on Aerial Ima	igery (C9)
Algal Mat or Crust (B4)		Thin Muck Surface	e (C7)		Geomorphic	Position (D2)	
Iron Deposits (B5)		Other (Explain in F	Remarks)		Shallow Aq	uitard (D3)	
Inundation Visible on Ae	rial Imagery (B7)				FAC-Neutra		
Water-Stained Leaves (E	39)				Sphagnum	moss (D8) (LRR T,	U)
Field Observations:							
Surface Water Present?		Depth (inches					
Water Table Present?		Depth (inches		do a will to			4300
Saturation Present?	Yes No	Depth (inches	3):	Wetland H	ydrology Prese	nt? Yes	No_x
(includes capillary fringe) Describe Recorded Data (stre	eam gauge, monitorii	ng well, aerial phot	os, previous inspe	ctions), if avail	lable:		
1			7.44.47.7.74.08.4				
Remarks:							
I Committee of the comm	served						
No hydrology indicators ob	served.						

Tree Stratum (Plot size: 30 ft)		Dominant Species?		Dominance Test worksheet:
1- <u>N/A</u>				Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)
2				Total Number of Dominant Species Across All Strata: 1 (B)
4				Percent of Dominant Species
5		_		That Are OBL, FACW, or FAC: 0.0% (A/B
3		= Total Co		Prevalence Index worksheet:
50% of total cover: 0	A 2 2 2 2			Total % Cover of: Multiply by:
Sapling Stratum (Plot size: 30 ft)		10.01 00701		OBL species 0 x 1 = 0
1. <u>N/A</u>				FACW species 0 x 2 = 0
2.				FAC species0 x 3 =0
3.				FACU species100 x 4 =400
k				UPL species0 x 5 =0
5				Column Totals:(A)(B)
3.				Prevalence Index = B/A =4.00
		= Total Co		Hydrophytic Vegetation Indicators:
50% of total cover; 0	20% of	total cover	_ 0_	1 - Rapid Test for Hydrophytic Vegetation
Shrub Stratum (Plot size: 30 ft)				2 - Dominance Test is >50%
1. <u>N/A</u>				3 - Prevalence Index is ≤3.01
2				Problematic Hydrophytic Vegetation¹ (Explain)
3				
4				Indicators of hydric soil and wetland hydrology must
5				be present, unless disturbed or problematic.
6		7.1.10		Definitions of Five Vegetation Strata:
50% of total cover: 0		= Total Cover		Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in (7.6 cm) or larger in diameter at breast height (DBH).
Herb Stratum (Plot size: 5 ft)	24	10.7	with the	(7.0 cm) of larger in diameter at breast neight (DBH).
Cynodon dactylon, Bermuda Grass				Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less
2. Plantago lanceolata, English Plantain			FACU	than 3 in. (7.6 cm) DBH.
3. Potentilla indica, Indian-Strawberry			FACU	Shrub Wandy plants avaluding wandy vinns
Trifolium repens, White Clover Taraxacum officinale, Common Dandelion			FACU	Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.
3.			Trico	Herb - All herbaceous (non-woody) plants, including
7.				herbaceous vines, regardless of size, and woody
3.				plants, except woody vines, less than approximately 3 ft (1 m) in height.
9.				
10:				Woody vine - All woody vines, regardless of height.
11				
	100	= Total Co	/er	
50% of total cover: 50	20% of	total cover	20	
Woody Vine Stratum (Plot size: 30 ft)				
1. <u>N/A</u>				
2,	_			
3				
4				
5,				Hydrophytic
		= Total Co		Vegetation
		total cover		Present? Yes No x

(inches)	Matrix	N -		Features	1 2 -2	Towns		Besselve	
	Color (moist)		olor (moist)	% Type	_Loc ² _	Texture		Remarks	
0-8	10YR 3/1	100%				Silty clay			
						_			
						_			
	-			=	-		-		_
et mit and	The same of the same	DETERMINATION AND ADDRESS.	77304-00-1234	10.000000000000000000000000000000000000		10/3 253	en er oan	A TEL AND A SEC.	
	oncentration, D=Dep				rains.			ning, M=Matri	
The Williamson	Indicators: (Applica	able to all LRKS		and the last of the last of				natic Hydric	Solls ;
Histosol		_		ow Surface (S8) (uck (A9) (L		
The second second	oipedon (A2)	-		face (S9) (LRR S,			uck (A10) (
The second second	stic (A3)	2		Mineral (F1) (LRI	(O)			18) (outside N	
	n Sulfide (A4)	-	Loamy Gleyer					iin Soils (F19) Loamy Soils (i	
	d Layers (A5) Bodies (A6) (LRR P,	T 10	Depleted Mat Redox Dark S				(A 153B)	Loarry Soils ((20)
	icky Mineral (A7) (LF			Surface (F7)		100	rent Materi	al (TE2)	
	esence (A8) (LRR U		Redox Depres					Surface (TF1	2)
	ick (A9) (LRR P, T)	_	Marl (F10) (LI	The second section of the second			Explain in F		41
	Below Dark Surface	e (A11)		ric (F11) (MLRA 1	51)		Exposit to 1	ionianis)	
	ark Surface (A12)			se Masses (F12)		Indica	ators of hyd	rophytic veget	ation and
	rairie Redox (A16) (N	ILRA 150A)		e (F13) (LRR P, 1				gy must be pr	
Sandy N	Mucky Mineral (S1) (L	.RR O, S)		F17) (MLRA 151)				d or problema	
_ Sandy G	Sleyed Matrix (S4)		Reduced Vert	ic (F18) (MLRA 1	50A, 150B)				
_ Sandy R	redox (S5)		Piedmont Flo	odplain Soils (F19	(MLRA 149A)			
Stripped	Matrix (S6)		Anomalous B	right Loamy Soils	(F20) (MLRA	149A, 153C,	153D)		
Dark Su	rface (S7) (LRR P, S	i, T, U)							
	Layer (if observed):				1				
Type: Ha	rd Clay Pack								
Depth (in	ches): 8				110	Hydric Soil	Present?	Yes	No_x
Remarks:					-1-	1,200	1911010		
Restrictive									
esurctive i									

Date: 5/18/21

Feature Name: RD_W_001_UP





Photograph Direction West

Comments: View of soil core

Photograph Direction North

Comments:





Photograph Direction South

Comments:

Photograph Direction East

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: Dominion CVOW	City/County: Virginia Beach/	Virginia Beach	Sampling Date:	5/18/2021
Applicant/Owner: Dominion		State: VA	Sampling Point: R[D_W_002
Investigator(s): R. Delahunty	Section, Township, Range:			
Landform (hillslope, terrace, etc.): Depression				(%): 1
Subregion (LRR or MLRA): MLRA 153B of LRR T Lat:		0.00	75.0	8 S M
	56:772633 Long			II. <u>17 030 1</u>
Are climatic / hydrologic conditions on the site typical for this time of y				
Are Vegetation, Soil, or Hydrology significantl		2		No
Are Vegetation, Soil, or Hydrology naturally p	roblematic? (If needed,	explain any answe	rs in Remarks.)	
SUMMARY OF FINDINGS - Attach site map showing	g sampling point location	ons, transects	, important fea	tures, etc.
Hudrophytic Vegetation Present? Yes X No.				
Hydrophytic Vegetation Present? Yes _ x	is the Sampled Area			
Wetland Hydrology Present? Yes X No	within a Wetland?	Yesx	No	
Remarks:	·		Observed Classifi	ications:
			Cowardin:PEM	cations.
			cowardini. <u>r Elvi</u>	
HYDROLOGY				
Wetland Hydrology Indicators:		Secondary Indica	ators (minimum of tw	vo required)
Primary Indicators (minimum of one is required; check all that apply)		Surface Soil	Cracks (B6)	
Aquatic Fauna (B:	13)	Sparsely Ve	getated Concave Su	ırface (B8)
High Water Table (A2) Marl Deposits (B1		Drainage Pa	tterns (B10)	
x Saturation (A3) Hydrogen Sulfide	Odor (C1)	Moss Trim L	ines (B16)	
Water Marks (B1) X Oxidized Rhizosp	heres along Living Roots (C3)	Dry-Season	Water Table (C2)	
Sediment Deposits (B2) Presence of Redu	ced Iron (C4)	x Crayfish Bur	rows (C8)	
Drift Deposits (B3) Recent Iron Redu	ction in Tilled Soils (C6)	Saturation V	isible on Aerial Imag	jery (C9)
Algal Mat or Crust (B4) Thin Muck Surface	e (C7)	Geomorphic	Position (D2)	
Iron Deposits (B5) Other (Explain in	Remarks)	Shallow Aqu	itard (D3)	
Inundation Visible on Aerial Imagery (B7)		x FAC-Neutral	Test (D5)	
Water-Stained Leaves (B9)		Sphagnum n	noss (D8) (LRR T, U	ı)
Field Observations:				
Surface Water Present? Yesx No Depth (inches				
Water Table Present? Yes No _x Depth (inches	s):			
Saturation Present? Yes _ x No Depth (inche: (includes capillary fringe)	s): 0 Wetland	Hydrology Preser	it? Yesx	No
Describe Recorded Data (stream gauge, monitoring well, aerial pho	tos, previous inspections), if av	ailable:		
Remarks:				
H				4

0 = Total Cover

Vegetation

Present?

50% of total cover: ___0__ 20% of total cover: ___0__

EGETATION (Five Strata) – Use scientific nar				Sampling Point: RD_W_00.
Tree Stratum (Plot size: 30 ft)		Dominant Species?		Dominance Test worksheet:
1. <u>N/A</u>	· Martin	Opecies:	Otatus	Number of Dominant Species That Are OBL, FACW, or FAC: 3 (A)
2.				That 740 OBE, 171000, OF 1710.
3.				Total Number of Dominant Species Across All Strata: 3 (B)
4				Species Across All Strata:3(B)
5				Percent of Dominant Species
				That Are OBL, FACW, or FAC: 100.0% (A/E
J		= Total Cov	er	Prevalence Index worksheet:
50% of total cover: 0				Total % Cover of: Multiply by:
Sapling Stratum (Plot size: 15 ft)	2070 01	10101 00101		OBL species90 x 1 =90
I. Pinus taeda, Loblolly Pine	5	Yes	FAC	FACW species0 x 2 =0
2.			- 1710	FAC species10 x 3 =30
3				FACU species0 x 4 =0
i.				UPL species0 x 5 =0
5			-	Column Totals:(A)(B)
5.				Prevalence Index = B/A =1.20
**************************************	5	= Total Cov	er	Hydrophytic Vegetation Indicators:
50% of total cover: 2.5	8 0			1 - Rapid Test for Hydrophytic Vegetation
Shrub Stratum (Plot size: 30 ft)				x 2 - Dominance Test is >50%
. Morella cerifera, Southern Bayberry	5	Yes	FAC	x 3 - Prevalence Index is ≤3.0¹
2.				Problematic Hydrophytic Vegetation¹ (Explain)
3.			## 11 11 11 11 11 11 11 11 11 11 11 11 1	Problematic Hydrophytic Vegetation (Explain)
4.				Indicators of hydric soil and wetland hydrology must
5				be present, unless disturbed or problematic.
3.				Definitions of Five Vegetation Strata:
		= Total Cov	er	Tree – Woody plants, excluding woody vines,
50% of total cover: 2.5	20% of	total cover	1	approximately 20 ft (6 m) or more in height and 3 in.
Herb Stratum (Plot size: 30 ft)				(7.6 cm) or larger in diameter at breast height (DBH).
1. Typha angustifolia, Narrow-Leaf Cat-Tail	70	<u>Yes</u>	OBL	Sapling – Woody plants, excluding woody vines,
2. Juncus effusus, Lamp Rush	10		OBL	approximately 20 ft (6 m) or more in height and less
3. Persicaria sagittata, Arrow-Leaf Tearthumb	5	No	OBL	than 3 in. (7.6 cm) DBH.
4. <u>Carex Iurida, Shallow Sedge</u>	5	<u>No</u>	OBL_	Shrub - Woody plants, excluding woody vines,
5				approximately 3 to 20 ft (1 to 6 m) in height.
5				Herb - All herbaceous (non-woody) plants, including
7				herbaceous vines, regardless of size, and woody
3				plants, except woody vines, less than approximately 3 ft (1 m) in height.
9				
10				Woody vine – All woody vines, regardless of height.
11				
		= Total Cov	er	
50% of total cover: <u>45</u>	20% of	total cover	18	
Woody Vine Stratum (Plot size: 30 ft)				
1. <u>N/A</u>				
2.				
3.				
4.				
5.		V 70	50	Hydrophytic

Remarks:	(If observed,	list morphological	adaptations below	W

Yes __x No ____

SolL Sampling Point: RD_W_002

Depth	Matrix			x Features		or commi	the absence of i	ndicators.
(inches)	Color (moist)	%	Color (moist)	%	_Type ¹	Loc ²	Texture	Remarks
0-8	10YR 5/1	100%					Silty clay	
8-20	10YR 6/1	80%	LOYR 5/6	20%	C	M	Clay	
30								
* 1	i (11 11 11			-		
) (1) (1) (2) (2)						-		
	3 3	. ——			-			10 10 10 10 10 10 10 10 10 10 10 10 10 1
	Concentration, D=Dep Indicators: (Applic					ins.		=Pore Lining, M=Matrix. Problematic Hydric Soils ³ :
Histoso		able to all L	.rks, uniess other Polyvalue Be			DD C T II		to the property of the control of th
- 	pipedon (A2)		Thin Dark Su				950 	(A10) (LRR S)
	listic (A3)		Loamy Muck					/ertic (F18) (outside MLRA 150A,B
	en Sulfide (A4)		Loamy Gleye	n er monare	F2)			Floodplain Soils (F19) (LRR P, S, T)
77	d Layers (A5)	T 110	_x Depleted Ma		C)			s Bright Loamy Soils (F20)
	: Bodies (A6) (LRR P ucky Mineral (A7) (LF		Redox Dark Depleted Da				(MLRA 1 Red Paren	t Material (TF2)
A STATE OF THE STA	resence (A8) (LRR U	20 ST 100 ST	Redox Depre		<i>3</i> • •		Append your west	ow Dark Surface (TF12)
W Ullian	uck (A9) (LRR P, T)		Marl (F10) (L		15			olain in Remarks)
	d Below Dark Surfac	e (A11)	Depleted Oc	CONTRACTOR OF SECUL				
- 17	ark Surface (A12)	MI DA 450A	Iron-Mangan			- ST - N	*	s of hydrophytic vegetation and I hydrology must be present,
	Prairie Redox (A16) (F Mucky Mineral (S1) (I		 Umbric Surfa Delta Ochric 			U)		disturbed or problematic.
A STATE OF THE STA	Gleyed Matrix (S4)		Reduced Ver	Marie		0A, 150B)		
- No. 1990	Redox (S5)		Piedmont Flo					
	d Matrix (S6)	S = 105	Anomalous E	Bright Loan	ny Soils (f	20) (MLR	A 149A, 153C, 15	3D)
V 2014 100000 - 01	urface (S7) (LRR P, S Layer (if observed):						T	
Type: No	(E) (VE) (SE)							
	nches): N/A						Hydric Soil Pre	sent? Yes No
Remarks:							.,,	

- .	5/18/21	
Date:		

Feature Name: RD_W_002



Photograph Number ___1

Photograph Direction _____

Comments:



Photograph Number 2

Photograph Direction _____

Comments:



Photograph Number <u>3</u>

Photograph Direction _____

Comments:



Photograph Number ___4

Photograph Direction _____

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region

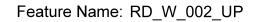
Project/Site: Dominion CVOW	!	City/Co	unty: Virginia Beach/	Virginia Beach	Sampling Date: _	5/18/2021
Applicant/Owner: Dominion				State: VA	Sampling Point: R	D_W_002_UP
Investigator(s): R. Delahunty		Section	, Township, Range:			
Landform (hillslope, terrace, etc						(%): 0
Subregion (LRR or MLRA): ML	NEO 75	7.1		9 10	75.6	R 5 10
Soil Map Unit Name: 1 - Acredate		Lat				III. <u>14 030+</u>
Are climatic / hydrologic conditi						
	5.5			2		No
Are Vegetation, Soil						NO
Are Vegetation, Soil				explain any answe		
SUMMARY OF FINDING	S – Attach site n	nap showing sam	oling point locati	ons, transects	s, important fea	atures, etc.
Hydrophytic Vegetation Prese	ent? Yes x	No	la tha Campled Area			
Hydric Soil Present?		No x	Is the Sampled Area	V	No. V	
Wetland Hydrology Present?		Nox	within a Wetland?	Yes	No×	
Remarks:					Observed Classifi	ications:
					Cowardin:	
HYDROLOGY						
Wetland Hydrology Indicato	ors:			Secondary Indica	ators (minimum of ty	wo required)
Primary Indicators (minimum		k all that annly)		-	Cracks (B6)	ro roquirou ₇
Surface Water (A1)		uatic Fauna (B13)			getated Concave S	urface (B8)
High Water Table (A2)		arl Deposits (B15) (LRR	IN		atterns (B10)	urrace (Bo)
Saturation (A3)		drogen Sulfide Odor (C		Moss Trim L		
Water Marks (B1)		idized Rhizospheres ald		. Delicorde Company de Company	Water Table (C2)	
Sediment Deposits (B2)		esence of Reduced Iron		Crayfish Bur		
Drift Deposits (B3)		cent Iron Reduction in T			isible on Aerial Ima	gery (C9)
Algal Mat or Crust (B4)	O-0	in Muck Surface (C7)			Position (D2)	3, (,
Iron Deposits (B5)		her (Explain in Remarks)	Shallow Aqu		
Inundation Visible on Aer	N -1		,	FAC-Neutra	and the same of	
Water-Stained Leaves (B					moss (D8) (LRR T, I	U)
Field Observations:	7/					
Surface Water Present?	Yes No _x_	Depth (inches):				
Water Table Present?	Yes Nox	Depth (inches):				
Saturation Present?		Depth (inches):	Wetland	Hydrology Presei	nt? Yes	Nox
(includes capillary fringe)				-11-1-1-		
Describe Recorded Data (stre	am gauge, monitoring	well, aerial photos, prev	ious inspections), if av	allable:		
B						
Remarks:	an rod					
No hydrology indicators obs	iervea.					
						1

		Dominant		Dominance Test worksheet:		
Tree Stratum (Plot size: 30 ft)		Species?		Number of Dominant Species	-	
1. Pinus taeda, Loblolly Pine				That Are OBL, FACW, or FAC:	5	(A)
Pyrus calleryana, Callery Pear	10	<u>No</u>	<u>UPL</u>	Total Number of Dominant		
3. <u>Liquidambar styraciflua, Sweet-Gum</u>	10	<u>No</u>	<u>FAC</u>	Species Across All Strata:	7	(B)
4						
5				Percent of Dominant Species That Are OBL, FACW, or FAC:	71.4%	(A/D)
6.				That Ale OBL, FACVV, of FAC.	72.170	(AVD)
· .		= Total Cov		Prevalence Index worksheet:		
500/ 5/44				Total % Cover of:	Multiply by:	
50% of total cover: 40	20% o	total cover:	16	OBL species 0 x		
Sapling Stratum (Plot size: 30 ft)				FACW species 0 x		
1. <u>N/A</u>				The state of the s		
2				FAC species 95 x		_
3				FACU species5 x	(A)	
4.				UPL species15 x :	5 = <u>75</u>	_
The state of the s				Column Totals:15 (A	380	_ (B)
5						
6		Service reserves		Prevalence Index = B/A =	3.30	_
	S .	= Total Cov		Hydrophytic Vegetation Indica	tors:	
50% of total cover:0	20% o	f total cover:	0	1 - Rapid Test for Hydrophyt		
Shrub Stratum (Plot size: 30 ft)				x 2 - Dominance Test is >50%	175	
1. Morella cerifera, Southern Bayberry	10	Yes	FAC	3 - Prevalence Index is ≤3.0		
2. Liquidambar styraciflua, Sweet-Gum				2000 3600 William State	many party are account on the	
				Problematic Hydrophytic Veg	getation' (Expla	in)
3						
4		W 		¹ Indicators of hydric soil and wetl		nust
5				be present, unless disturbed or p	roblematic.	
6				Definitions of Five Vegetation	Strata:	
		= Total Cov			W	
50% of total cover:	20% 0	f total cover	3	Tree – Woody plants, excluding approximately 20 ft (6 m) or more		3 in
Herb Stratum (Plot size: 30 ft)		r total oover.		(7.6 cm) or larger in diameter at b		
N	_	Vaa	LIDI	28 No. 100 100 100 100 100 100 100 100 100 10	as seen to	
Apocynum androsaemifolium, Spreading Dogbane		N/1	<u>UPL</u>	Sapling – Woody plants, excludi		
2. Toxicodendron radicans, Eastern Poison Ivy				approximately 20 ft (6 m) or more than 3 in. (7.6 cm) DBH.	a in neight and i	ess
3. Parthenocissus quinquefolia, Virginia-Creeper	5	<u>Yes</u>	FACU	than o in. (7.5 only BBH.		
4. Acer rubrum, Red Maple	5	<u>Yes</u>	<u>FAC</u>	Shrub – Woody plants, excluding		
5				approximately 3 to 20 ft (1 to 6 m	ı) in height.	
6				Herb - All herbaceous (non-woo	dv) plants, inclu	dina
7.				herbaceous vines, regardless of		
	-			plants, except woody vines, less	than approxima	itely
8				3 ft (1 m) in height.		
9		:: -		Woody vine - All woody vines, r	egardless of he	iaht
10			-	7	- J	
11						
	20	= Total Cov	er			
50% of total cover: 10	20% o	f total cover:	4			
Woody Vine Stratum (Plot size: 30 ft)						
1. N/A						
2						
3						
4						
5				Hydrophytic		
		= Total Cov		Vegetation		
50% of total cover: 0				Present? Yesx	No	
Remarks: (If observed, list morphological adaptations belo	72.			L		
Tremains. (II observed, list morphological adaptations belo	w/).					
I .						

Soll Sampling Point: RD W_002_UP

Profile Des Depth	cription: (Describe Matrix	to the depth		nent the i x Feature		or confirn	n the absence of in	dicators.)	
(inches)	Color (moist)	%	Color (moist)	% realure	Type ¹ _	_Loc ²	Texture	Remarks	
0-8	10YR 4/2	100%				20/2	Silty clay loam		
8-20	10YR 4/2	100%					Silty clay		
0 20	10111.472						Sirry Clay		-
10									7
	: 			• ()					
<u> </u>							<u> </u>		
12					775	202-1			
	8 B			tis.					
¹Type: C=C	Concentration, D=Dep	oletion RM=F	Peduced Matrix M	S=Masker	Sand Gr	aine	2l ocation: DI =	Pore Lining, M=Matri	<u> </u>
	Indicators: (Applic					ums.		Problematic Hydric \$	
Histoso			Polyvalue Be			.RR S. T. L		on the Report of C	
A CONTRACTOR OF THE PARTY OF TH	pipedon (A2)		Thin Dark Su				\$550 may 100 m	(A10) (LRR S)	
	listic (A3)		Loamy Muck					ertic (F18) (outside N	/ILRA 150A,B)
Hydrog	en Sulfide (A4)		Loamy Gleye	ed Matrix (F2)		Piedmont F	loodplain Soils (F19)	(LRR P, S, T)
77	d Layers (A5)		Depleted Ma					Bright Loamy Soils (I	F20)
	Bodies (A6) (LRR F		Redox Dark	21000000000000000000000000000000000000			(MLRA 15	000000	
A STATE OF THE STA	ucky Mineral (A7) (L	G101 S0 VALV 80	Depleted Da				ADDRESS FORD MARK	Material (TF2)	2)
W Ullian	resence (A8) (LRR l uck (A9) (LRR P, T)	J)	Redox Depre Marl (F10) (L		0)			w Dark Surface (TF1: ain in Remarks)	2)
	ed Below Dark Surface	ce (A11)	Depleted Oc		(MLRA 1	51)	Other (Expire	alli ili Kelliaiks)	
	ark Surface (A12)		Iron-Mangan	STATE OF STATE OF STATE OF	Particular State Delivers		T) ³ Indicators	of hydrophytic veget	ation and
Coast F	Prairie Redox (A16) (MLRA 150A)	Umbric Surfa	ce (F13)	LRR P, T	, U)	wetland	hydrology must be pr	resent,
Sandy	Mucky Mineral (S1) (LRR O, S)	Delta Ochric	(F17) (ML	.RA 151)		unless d	isturbed or problemat	tic.
40	Gleyed Matrix (S4)		Reduced Ver		Same and the same				
- No. 1990	Redox (S5)		Piedmont Flo					_,	
	d Matrix (S6)	C T II\	Anomalous E	Bright Loar	my Soils (F20) (NILR	RA 149A, 153C, 153	D)	
V 2014 100000 - 01	urface (S7) (LRR P, Layer (if observed)	contract treeses.							
Type: No	(D) (M) 35	·							
	nches): N/A						Hydric Soil Pres	ent? Yes	Nox
9 9	iciles). 14/71		_				nyunc 3011 Fies	sent res	МО
Remarks:									

Date: 5/18/21







Photograph Direction South

Comments:

Photograph Direction North

Comments:





Photograph Direction West

Comments:

Photograph Direction East

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: Dominion CVOW	City/County: Virginia	Beach/Virginia Beach	Sampling Date:	5/18/2021
Applicant/Owner: Dominion		State: <u>VA</u>	Sampling Point: RE	O_W_003
Investigator(s): R. Delahunty	Section, Township, R	Range:		
Landform (hillslope, terrace, etc.): Depression				(%): 1
Subregion (LRR or MLRA): MLRA 153B of LRR T Lat:		2 2 2 7		& S N
Soil Map Unit Name: 1 - Acredale silt loam				m. <u>-11 000 1</u>
Are climatic / hydrologic conditions on the site typical for this time of		=======================================		
				Ma
Are Vegetation, Soil, or Hydrology significar				_ No
Are Vegetation, Soil, or Hydrology naturally	problematic? (If	needed, explain any answe	rs in Remarks.)	
SUMMARY OF FINDINGS - Attach site map showi	ng sampling point	locations, transects	, important fea	tures, etc.
Hydrophytic Vegetation Present? Yesx No				
Hydric Soil Present? Yes x No	is the Sample			
Wetland Hydrology Present? Yesx No	within a wen	and? Yes <u>x</u>	No	
Remarks:			Observed Classifi	cations:
Data point taken within existing overhead utility easement. So	urface water drains fro	m wetland through	Cowardin:PEM	
RD_S_002.				
HYDROLOGY				
Wetland Hydrology Indicators:		Secondary Indica	ators (minimum of tw	o required)
Primary Indicators (minimum of one is required; check all that app	ly)	Surface Soil	Cracks (B6)	
Surface Water (A1) Aquatic Fauna (B13)	Sparsely Veg	getated Concave Su	rface (B8)
High Water Table (A2) Marl Deposits (B	315) (LRR U)	Drainage Pa	tterns (B10)	
Saturation (A3) Hydrogen Sulfid	e Odor (C1)	Moss Trim L	ines (B16)	
Water Marks (B1) Oxidized Rhizos	spheres along Living Roo	ots (C3) Dry-Season	Water Table (C2)	
Sediment Deposits (B2) Presence of Rec	duced Iron (C4)	Crayfish Bur	rows (C8)	
1	duction in Tilled Soils (C6	S) Saturation V	isible on Aerial Imag	ery (C9)
Algal Mat or Crust (B4) Thin Muck Surfa	ace (C7)	X Geomorphic	Position (D2)	
Iron Deposits (B5) Other (Explain in	n Remarks)	Shallow Aqu	itard (D3)	
Inundation Visible on Aerial Imagery (B7)		x FAC-Neutral	Test (D5)	
Water-Stained Leaves (B9)		Sphagnum n	noss (D8) (LRR T, U	J)
Field Observations:				
Surface Water Present? Yes No _x Depth (inch				
Water Table Present? Yes No _x Depth (inch	nes):			
Saturation Present? Yes No _x Depth (inch (includes capillary fringe)	nes): V	Vetland Hydrology Preser	it? Yesx	No
Describe Recorded Data (stream gauge, monitoring well, aerial ph	notos, previous inspection	ns), if available:		
Remarks:				
Surface water drains from wetlands to RD-S2				
İ				+

VEGETATION	(Five Strata) -	Use scientific names	of plants

	Absolute Dominan	t Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 ft)	% Cover Species	-1V(1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-	Number of Dominant Species
1. <u>N/A</u>	(That Are OBL, FACW, or FAC: 4 (A)
2			Total Number of Dominant
3			Species Across All Strata: 4 (B)
4			
			Percent of Dominant Species
5			That Are OBL, FACW, or FAC:(A/B)
6		-	Prevalence Index worksheet:
	0 = Total Co		Total % Cover of: Multiply by:
50% of total cover:0	20% of total cove	r: <u> 0 </u>	OBL species25 x 1 =25
Sapling Stratum (Plot size: 30 ft)			
1. <u>N/A</u>			FACW species 75 x 2 = 150
2.			FAC species25 x 3 =75
3.			FACU species0 x 4 =0
			UPL species0 x 5 =0
4			Column Totals: <u>125</u> (A) <u>250</u> (B)
5			Control of the second of the s
6			Prevalence Index = B/A =2.00
	0 = Total Co	ver	Hydrophytic Vegetation Indicators:
50% of total cover:0	20% of total cove	r:0	1 - Rapid Test for Hydrophytic Vegetation
Shrub Stratum (Plot size: 30 ft)			x 2 - Dominance Test is >50%
1. <u>N/A</u>			x 3 - Prevalence Index is ≤3.0¹
2			A SOLIT OPENING AND ADDRESS AN
			Problematic Hydrophytic Vegetation ¹ (Explain)
3			
4			¹ Indicators of hydric soil and wetland hydrology must
5			be present, unless disturbed or problematic.
6			Definitions of Five Vegetation Strata:
	0 = Total Co	ver	Tree Woody plants evaluding woody vines
50% of total cover: 0	20% of total cove	r: 0	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in.
Herb Stratum (Plot size: 30 ft)		AVR.0	(7.6 cm) or larger in diameter at breast height (DBH).
	50Yes	EV C/V/	
			Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less
2. <u>Solidago rugosa, Wrinkle-Leaf Goldenrod</u>			than 3 in. (7.6 cm) DBH.
3. Juncus effusus, Lamp Rush			
4. Carex crinita, Fringed Sedge		FACW	Shrub – Woody plants, excluding woody vines,
5			approximately 3 to 20 ft (1 to 6 m) in height.
6			Herb – All herbaceous (non-woody) plants, including
7.	32		herbaceous vines, regardless of size, and woody
8	· · · · · · · · · · · · · · · · · · ·	•	plants, except woody vines, less than approximately
			3 ft (1 m) in height.
9			Woody vine - All woody vines, regardless of height.
10			
11			
	125 = Total Co	ver	
50% of total cover: 62.5	20% of total cove	r: 25	
Woody Vine Stratum (Plot size: 30 ft)		.000	
1. N/A			
2			
3			
4			
5	7		Hydrophytic
	= Total Co	ver	Vegetation
50% of total cover: 0			Present? Yesx No
-	72	ı. <u> </u>	
Remarks: (If observed, list morphological adaptations belo	W).		

Sampling Point: RD W 003

SolL Sampling Point: RD_W_003

(inches)	Matrix		Redo	x Features			the absence of	**************************************	
(IIICHES)	Color (moist)	%	Color (moist)		Type ¹	Loc ²	Texture	Remarks	
0-10	10YR 5/2	95% 1	0YR 5/6	_5%	C	M	Clay		
7							<u> </u>		
0,	· ·	. <u> </u>							75
At a second and a second a second and a second a second and a second a second and a second a second and a second and a second and a second and a second a second and a second a second and a second a second and a second and a second and a second and a se	F 20			192					7.5
				318 				1 1 1	11 11 11 11 11 11 11 11 11 11 11 11 11
				• •					
				• +					
1Tyma: C=C	Concentration, D=Dep	lotion DM-F	adused Metrix M	- ——— -	Cond Cr	ine	2l pastion: DI	.=Pore Lining, M=Matrix	
	Indicators: (Application)					1115.		Problematic Hydric S	
Histoso			Polyvalue Be			RR S. T. U		k (A9) (LRR O)	37.00.70.00
	pipedon (A2)		Thin Dark Su		20 274274			k (A10) (LRR S)	
//////////////////////////////////////	listic (A3)		Loamy Muck		Participation of the Participa	O)	175 TO 17	Vertic (F18) (outside M	
	en Sulfide (A4)		Loamy Gleye	4 mm - 100 m	2)		79 - 170 - 1915 - 1915	Floodplain Soils (F19)	
 0	d Layers (A5) : Bodies (A6) (LRR P	T U)	X Depleted Mar Redox Dark		ă		Anomalou	ıs Bright Loamy Soils (F 153B)	20)
10-000000000000000000000000000000000000	ucky Mineral (A7) (LF	5 100 E. 5-00 E.S.	Depleted Dai		,		75 - CANTON - 175 CONTACT	nt Material (TF2)	
Muck P	resence (A8) (LRR U)	Redox Depre	essions (F8))		Very Shal	low Dark Surface (TF12	2)
	uck (A9) (LRR P, T)		Marl (F10) (L				Other (Ex	plain in Remarks)	
	d Below Dark Surfact ark Surface (A12)	e (A11)	Depleted Oct Iron-Mangan	CONTROL OF THE PARTY			E) ³ Indicate	ors of hydrophytic vegeta	tion and
Company and the second	Prairie Redox (A16) (N	ILRA 150A)				350 5	*	d hydrology must be pre	
	Mucky Mineral (S1) (L	•	Delta Ochric			-,		disturbed or problemat	
· · · · · · · · · · · · · · · · · · ·	Gleyed Matrix (S4)		Reduced Ver						
	Redox (S5)		Piedmont Flo						
	d Matrix (S6) urface (S7) (LRR P, S	T 10	Anomalous E	Bright Loam	y Solls (I	·20) (IVILRA	A 149A, 153C, 15	53D)	
	Layer (if observed):	Magazing san							
	ard Pack Clay								
Depth (ir	nches): <u>10</u>		<u> </u>				Hydric Soil Pre	esent? Yesx	No
Remarks:	96 W						(40)	12 %	
December 1	layer at 10 inches w	hich prever	ited evaluation of	f the full so	il profile	(20 inche	s).		
Restrictive	. ,								
Restrictive	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,								
Restrictive	.,								
Restrictive	,								
RESTRICTIVE	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,								
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Date: 5/18/21

Feature Name: RD_W_003



Photograph Number 1
Photograph Direction South

Comments:



Photograph Number 2
Photograph Direction North

Comments:



Photograph Number 3
Photograph Direction West

Comments:



Photograph Number 4

Photograph Direction East

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region

Project/Site: Dominion CVOW	!		City/County: Virgin	ia Beach/V	irginia Beach	Sampling Date:	5/18/2021
Applicant/Owner: Dominion				8	State: VA	Sampling Point: RD	<u> W 003 UP</u> &
Investigator(s): R. Delahunty			Section, Township	Range:		RE	_W_004_UP
Landform (hillslope, terrace, etc							(%): 0
Subregion (LRR or MLRA): ML							
Soil Map Unit Name: 1 - Acredale							
Are climatic / hydrologic conditi							
Are Vegetation, Soil	-						No
							_ 140
Are Vegetation, Soil					xplain any answe		
SUMMARY OF FINDING	S – Attach sit	e map showing	sampling poi	nt locatio	ns, transects	, important fea	tures, etc.
Hydrophytic Vegetation Prese	ent? Yes	Nox					
Hydric Soil Present?		Nox	Is the Sam		Vaa	No. X	
Wetland Hydrology Present?		Nox	within a we	etiand?	res	Nox	
Remarks:						Observed Classific	ations:
Data point taken within a m	aintained lawn.					Cowardin:	
HYDROLOGY							
Wetland Hydrology Indicato	rs:			9	Secondary Indica	tors (minimum of tw	o required)
Primary Indicators (minimum	of one is required; of	check all that apply)			Surface Soil	Cracks (B6)	
Surface Water (A1)	_	Aquatic Fauna (B1	3)			getated Concave Su	rface (B8)
High Water Table (A2)	-	Marl Deposits (B15			Drainage Pat	tterns (B10)	
Saturation (A3)	-	Hydrogen Sulfide (Moss Trim Li		
Water Marks (B1)	_		eres along Living R		Dry-Season		
Sediment Deposits (B2)	-	Presence of Reduc			Crayfish Burn		(00)
Drift Deposits (B3)	-		tion in Tilled Soils (sible on Aerial Imag	ery (C9)
Algal Mat or Crust (B4)	_	Thin Muck Surface	(7		Geomorphic		
Iron Deposits (B5) Inundation Visible on Aer	ial Imagen/ (B7)	Other (Explain in F	ternarks)		Shallow Aqui FAC-Neutral		
Water-Stained Leaves (B					_	noss (D8) (LRR T, U	, l
Field Observations:	<u> </u>			3	opilagilaliiii	1000 (00) (211111)	<u></u>
Surface Water Present?	Yes No	x Depth (inches): N/A				
Water Table Present?		x Depth (inches					
Saturation Present?	Yes No	x Depth (inches); N/A	Wetland H	vdrology Presen	it? Yes	No ×
(includes capillary fringe)					. 7.5		
Describe Recorded Data (stre	am gauge, monitor	ring well, aerial photo	os, previous inspect	ions), if avai	lable:		
Remarks:							
No hydrology indicators obs	served						
No flydrology filateators obs	ici vea.						
ļ							

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

/EGETATION (Five Strata) – Use scientific nar	nes of pla	nts.		Sampling Point: RD_W_003_U
	Absolute			Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size: <u>30 ft</u>)	% Cover	Species?	Status	Number of Dominant Species
1. <u>N/A</u>				That Are OBL, FACW, or FAC:0 (A)
2				Total Number of Dominant
3				Species Across All Strata: 2 (B)
4.				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 0.0% (A/B)
6				Prevalence Index worksheet:
	=	Total Cov	er	Total % Cover of: Multiply by:
50% of total cover:0	20% of f	total cover:	0	OBL species 0 x 1 = 0
Sapling Stratum (Plot size: 30 ft)				FACW species5 x 2 =10
1. <u>N/A</u>				50.7 (30.5)
2				FAC species 5 x 3 = 15
3				FACU species <u>85</u> x 4 = <u>340</u>
4				UPL species 5 x 5 = 25
5				Column Totals:100 (A)390 (B)
6				Prevalence Index = B/A =3.90
	0 =	Total Cov	er	Hydrophytic Vegetation Indicators:
50% of total cover:0	20% of t	total cover:	0	1 - Rapid Test for Hydrophytic Vegetation
Shrub Stratum (Plot size: 30 ft)				2 - Dominance Test is >50%
1. <u>N/A</u>				3 - Prevalence Index is ≤3.0¹
2				Problematic Hydrophytic Vegetation¹ (Explain)
3.				Problematic Hydrophytic Vegetation (Explain)
4.				The disease of boards and a set of boards and boards are a
5				Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
6.				Definitions of Five Vegetation Strata:
<u> </u>	0 =			
50% of total cover: 0				Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in.
Herb Stratum (Plot size: 5 ft)	2070 011	iolai covei.		(7.6 cm) or larger in diameter at breast height (DBH).
1. Cynodon dactylon, Bermuda Grass	50	Yes	FΔCII	6
Dactylis glomerata, Orchard Grass				Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less
Hieracium greenii, Green's Hawkweed			FACU	than 3 in. (7.6 cm) DBH.
Ranunculus abortivus, Kidney-Leaf Buttercup			FACW	Shrub – Woody plants, excluding woody vines,
				approximately 3 to 20 ft (1 to 6 m) in height.
5. Potentilla indica, Indian-Strawberry			FACU_	
6. Oxalis stricta, Upright Yellow Wood-Sorrel		No	UPL_	Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody
7. Rumex crispus, Curly Dock		No	<u>FAC</u>	plants, except woody vines, less than approximately
8. <u>Trifolium repens, White Clover</u>		No	<u>FACU</u>	3 ft (1 m) in height.
9				Woody vine - All woody vines, regardless of height.
10				
11		7.		
	Maria Maria Maria Maria Maria Maria Maria Maria Maria Maria Maria Maria Maria Maria Maria Maria Maria Maria Ma	: Total Cov		
50% of total cover: 50	20% of t	total cover:	20	
Woody Vine Stratum (Plot size: 30 ft)				
1. <u>N/A</u>				
2				
3				
4				
5				Hydrophytic
		Total Cov	er	Vegetation
50% of total cover:0	20% of t	total cover:	0	Present? Yes No×
Remarks: (If observed, list morphological adaptations belo	w).			I.
Maintained lawn / Numerous lawn species				

SOIL

Sampling Point: RD W 003 UP

Profile Desc	cription: (Describe	to the depth ne	eded to docur	nent the inc	dicator or c	onfirm	the absence of	indicato	rs.)	RD_W_004_UP
Depth	Matrix		Redo	x Features						
(inches)	Color (moist)	<u>%</u> C	olor (moist)	<u>%</u>	Type' L	.oc ²	Texture		Remarks	
0-10	10YR 4/2	_100%_		.VV <u>2</u>			Silty clay loam			30
2										
-	-						· · · · · · · · · · · · · · · · · · ·			
2	¥									72
<u> </u>	16-									74
ys. 11 11 3g										11 11 32
	9	. — —								
2-1						-			- is	1
-										
¹Type: C=C	oncentration, D=Dep	letion, RM=Red	uced Matrix, MS	S=Masked S	and Grains	i.	² Location: PL	=Pore Li	ning, M=Matri	x.
Hydric Soil	Indicators: (Applic	able to all LRRs	s, unless other	wise noted	l.)		Indicators for	Probler	natic Hydric \$	Soils ³ :
Histosol	(A1)		_ Polyvalue Be	low Surface	(S8) (LRR	S, T, U)) 1 cm Muc	k (A9) (L	RR O)	
A Section Control of the Control of	pipedon (A2)	-	_ Thin Dark Su				2 cm Muc			
	istic (A3)		Loamy Muck							ILRA 150A,B)
Hydroge	en Sulfide (A4)	_	Loamy Gleye	d Matrix (F2	2)					(LRR P, S, T)
Stratifie	d Layers (A5)	<u></u>	Depleted Ma	trix (F3)			Anomalou	us Bright	Loamy Soils (I	F20)
Organic	Bodies (A6) (LRR P	, T, U)	Redox Dark	Surface (F6)	Ì		(MLRA	153B)		101
5 cm Mu	icky Mineral (A7) (Li	RR P, T, U)	_ Depleted Dai	rk Surface (f	- 7)		Red Pare	nt Materia	al (TF2)	
Muck Pr	esence (A8) (LRR L	l)	_ Redox Depre	ssions (F8)			Very Shal	low Dark	Surface (TF1	2)
1 cm Mu	ick (A9) (LRR P, T)		_ Marl (F10) (L	RR U)			Other (Ex	plain in R	Remarks)	
Deplete	d Below Dark Surfac	e (A11)	_ Depleted Ocl	nric (F11) (N	ILRA 151)					
Thick Da	ark Surface (A12)		_ Iron-Mangan	ese Masses	(F12) (LRF	R O, P, 1	T) ³ Indicato	ors of hyd	rophytic veget	ation and
	rairie Redox (A16) (I		_ Umbric Surfa						gy must be pr	
And a contract of the contract	/lucky Mineral (S1) (I	LRR O, S)	_ Delta Ochric				unless	disturbe	d or problema	tic.
The second secon	Sleyed Matrix (S4)		Reduced Ver							
I	Redox (S5)	(i 	Piedmont Flo							
	l Matrix (S6)	-	_ Anomalous E	Bright Loamy	Soils (F20)) (MLRA	A 149A, 153C, 1	53 D)		
	rface (S7) (LRR P, \$									
1	Layer (if observed):									
Type: Ha	rd pack soil									
Depth (in	ches): <u>10</u>						Hydric Soil Pr	esent?	Yes	Nox
Remarks:	96 W									
1										

Date [.]	5/18/21	
Date:	3/10/21	

 $\label{eq:RD_W_003_UP} \textbf{Feature Name:} \begin{array}{ll} RD_W_003_UP \\ RD_W_004_UP \end{array}$





Photograph Direction North

Comments:

Photograph Direction East

Comments:





Photograph Direction South

Comments:

Photograph Direction West

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: Dominion CVOW	City/County: Virginia	a Beach/Virginia Beach	Sampling Date:	5/18/2021
Applicant/Owner: Dominion		State: <u>VA</u>	Sampling Point: RD	W_004
Investigator(s): R. Delahunty	Section, Township, f	Range:	337 3377	
Landform (hillslope, terrace, etc.): Depression				(%): 2
Subregion (LRR or MLRA): MLRA 153B of LRRT Lat:		00 37 00 10		ō 5 10
Soil Map Unit Name: 1 - Acredale silt loam				11. 110001
Are climatic / hydrologic conditions on the site typical for this time of ye				***
Are Vegetation, Soil, or Hydrology significantly				No
Are Vegetation, Soil, or Hydrology naturally pr	oblematic? (If	needed, explain any answe	rs in Remarks.)	
SUMMARY OF FINDINGS - Attach site map showing	g sampling point	t locations, transects	, important feat	tures, etc.
Hydrophytic Vegetation Present? Yesx No				
Hydric Soil Present? Yes _x No	is the Sampi			
Wetland Hydrology Present? Yes x No	within a wer	land? Yes	No	
Remarks:			Observed Classific	ations:
The western portion of wetland RD_W_004 is maintained within	n the existing overh	ead utility easement.	Cowardin:	
Surface water witin the wetland is drained through RD_S_003.				
HYDROLOGY				
Wetland Hydrology Indicators:		Secondary Indica	tors (minimum of tw	o required)
Primary Indicators (minimum of one is required; check all that apply)		Surface Soil	Cracks (B6)	
Surface Water (A1) Aquatic Fauna (B1	13)	Sparsely Veg	getated Concave Su	rface (B8)
High Water Table (A2) Marl Deposits (B1	5) (LRR U)	Drainage Pa	tterns (B10)	
Saturation (A3) Hydrogen Sulfide	Odor (C1)	Moss Trim Li	nes (B16)	
Water Marks (B1) Oxidized Rhizosph	neres along Living Ro	ots (C3) Dry-Season	Water Table (C2)	
Sediment Deposits (B2) Presence of Reduc	ced Iron (C4)	Crayfish Burn	rows (C8)	
Drift Deposits (B3) Recent Iron Reduc	ction in Tilled Soils (Co	6) Saturation Vi	isible on Aerial Imag	ery (C9)
Algal Mat or Crust (B4) Thin Muck Surface	€ (C7)	X Geomorphic	Position (D2)	
Iron Deposits (B5) Other (Explain in F	Remarks)	Shallow Aqui	itard (D3)	
Inundation Visible on Aerial Imagery (B7)		_x FAC-Neutral	Test (D5)	
Water-Stained Leaves (B9)		Sphagnum n	noss (D8) (LRR T, U)
Field Observations:				
Surface Water Present? Yes Nox Depth (inches				
Water Table Present? Yes No _x Depth (inches	s): <u>N/A</u>			
Saturation Present? Yes No _x Depth (inches	s): <u>N/A</u>	Wetland Hydrology Preser	t? Yesx	No
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial phot	os, previous inspectic	ons), if available:		
Remarks:				
-Western part of wetland moved - Surface water from wetlands	drains to RD-SS			
i de la companya de l				+

VEGETATION	(Five Strata) -	Use scientific names	of plants
VEGETATION	u ive ouatar –	OSE SCIENTIFIC HATTIES	OI DIGITLS

-	Absolute Domina	ant Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 ft)	% Cover Specie	es? Status	Number of Dominant Species
	-		That Are OBL, FACW, or FAC:1 (A)
2			Total Number of Dominant
3			Species Across All Strata:1 (B)
4			Percent of Dominant Species
5		_	That Are OBL, FACW, or FAC: 100.0% (A/B)
6			Prevalence Index worksheet:
	= Total (Total % Cover of:Multiply by:
50% of total cover: 0	20% of total co	ver:0	OBL species80 x 1 =80
Sapling Stratum (Plot size: 30 ft)			FACW species 10 x 2 = 20
1. <u>N/A</u>			FAC species x 2 = 30
2			FACU species 0 x 4 = 0
3			UPL species
4			10
5			Column Totals:100 (A)130 (B)
6			Prevalence Index = B/A =1.30
	0 = Total (Hydrophytic Vegetation Indicators:
50% of total cover:0_	20% of total co	ver:0	<u>×</u> 1 - Rapid Test for Hydrophytic Vegetation
Shrub Stratum (Plot size: 30 ft)			x 2 - Dominance Test is >50%
1. <u>N/A</u>			x 3 - Prevalence Index is ≤3.01
2.			Problematic Hydrophytic Vegetation¹ (Explain)
3			
4			Indicators of hydric soil and wetland hydrology must
5			be present, unless disturbed or problematic.
6			Definitions of Five Vegetation Strata:
	0 = Total (Tree - Woody plants, excluding woody vines,
50% of total cover: 0	20% of total co	ver:0	approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).
Herb Stratum (Plot size: 5 ft)			(7.6 cm) or larger in diameter at breast neight (DBH).
1. Juncus effusus, Lamp Rush		OBL	Sapling - Woody plants, excluding woody vines,
2. <u>Juncus tenuis, Lesser Poverty Rush</u>			approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.
3. <u>Carex crinita</u> , Fringed Sedge		FACW_	Prince 16 2000001 LOS 95 02 00 000 000 000
4			Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.
5			approximately 5 to 20 ft (1 to 6 m) in neight.
6			Herb – All herbaceous (non-woody) plants, including
7			herbaceous vines, regardless of size, <u>and</u> woody plants, except woody vines, less than approximately
8			3 ft (1 m) in height.
9			Woody vine – All woody vines, regardless of height.
10			woody vine - All woody vines, regardless of neight.
11			
	100 = Total (Cover	
50% of total cover:50	20% of total co	ver: <u>20</u>	
Woody Vine Stratum (Plot size: 30 ft)			
1. <u>N/A</u>			
2			
3.			
4.			
5		70. 50	Hydronhytio
vice -	= Total (Cover	Hydrophytic Vegetation
50% of total cover:0			Present? Yesx No
Remarks: (If observed, list morphological adaptations belo	- 22		
rromains. (Il observed, list morphological adaptations belo	w. /.		

Sampling Point: RD W 004

SolL Sampling Point: RD_W_004

German School (1997) Sept. Color (mosts) 196	Depth	cription: (Describe Matrix	to the dopth		x Features		01 0011111111	tilo absolitos or i	maioacor 5.7	
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1)	Company of the Compan		%				_Loc ²	Texture	Remarks	
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1)	0-10	10YR 4/1	95% 5	YR 4/6	5%	M	PL	Silty clay		
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1)						·				
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1)	2	-								
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1)	The state of the s	· 4								
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1)		T (
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1)	122									
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1)		· ·			%#). "				
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1)		i 3 								
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1)	ī							2		-
Histosol (A1)							ains.	Location: PL	=Pore Lining, M=Matrix	(. ,3.
Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Organic Bodies (A6) (LRR P, T, U) Muck Presence (A8) (LRR P, T, U) Depleted Dark Surface (F7) Muck Presence (A8) (LRR P, T) Depleted Derk Surface (F1) (MLRA 151) Thick Dark Surface (A12) Depleted Ochric (F11) (MLRA 151) Thick Dark Surface (A16) Coast Prairie Redox (A16) (MLRA 150A) Sandy Mucky Mineral (S1) (LRR O, S) Detta Ochric (F17) (MLRA 151) Sandy Redox (S5) Sandy Redox (S5) Piedmont Floodplain Soils (F19) (LRR P, S, T) Anomalous Bright Loamy Soils (F20) (MLRA 153B) Red Parent Material (TF2) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) Other (Explain in Remarks) Poetta Ochric (F11) (MLRA 151) Iron-Manganese Masses (F12) (LRR O, P, T) Sandy Mucky Mineral (S1) (LRR O, S) Sendy Mucky Mineral (S1) (LRR O, S) Sendy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 149A) Stripped Matrix (S6) Dark Surface (S7) (LRR P, T, U) Restrictive Layer (if observed): Type: Hard packed clay Depth (inches): 10 Thin Dark Surface (S9) (LRR P, S, T, U) Type: Hard packed clay Depth (inches): 10 Thin Dark Surface (S9) (LRR P, S, T, U) Restrictive Layer (if observed): Type: Hard packed clay Depth (inches): 10 Thin Dark Surface (S9) (LRR P, S, T, U)	G.121 U		able to all Li							oolis :
Black Histic (A3)		. 1) - 40						N TOTAL MANAGEMENT OF THE PARTY		
Loamy Gleyed Matrix (F2) Piedmont Floodplain Soils (F19) (LRR P, S, T) Stratified Layers (A5) Depleted Matrix (F3) Anomalous Bright Loamy Soils (F20) Organic Bodies (A6) (LRR P, T, U) Redox Dark Surface (F6) (MLRA 153B) Som Mucky Mineral (A7) (LRR P, T, U) Depleted Dark Surface (F7) Red Parent Material (TF2) Muck Presence (A8) (LRR U) Redox Depressions (F8) Very Shallow Dark Surface (TF12) 1 cm Muck (A9) (LRR P, T) Depleted Dark Surface (F11) (MLRA 151) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Iron-Manganese Masses (F12) (LRR O, P, T) Sandy Mucky Mineral (S1) (LRR O, S) Delta Ochric (F17) (MLRA 151) wetland hydrology must be present, unless disturbed or problematic. Sandy Gleyed Matrix (S4) Reduced Vertic (F18) (MLRA 150A, 150B) Sandy Redox (S5) Piedmont Floodplain Soils (F20) (MLRA 149A) Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D) Restrictive Layer (if observed): Type: Hard packed clay Depth (inches): 10 Hydric Soil Present? Yes No No										I DA 450A D\
Stratified Layers (A5)	//////////////////////////////////////						. 0)			
Organic Bodies (A6) (LRR P, T, U) Redox Dark Surface (F6) (MLRA 153B) 5 cm Mucky Mineral (A7) (LRR P, T, U) Depleted Dark Surface (F7) Redox Depressions (F8) Muck Presence (A8) (LRR U) Redox Depressions (F8) Very Shallow Dark Surface (TF12) 1 cm Muck (A9) (LRR P, T) Marl (F10) (LRR U) Other (Explain in Remarks) Depleted Below Dark Surface (A11) Iron-Manganese Masses (F12) (LRR O, P, T) Wetland hydrology must be present, unless disturbed or problematic. Sandy Mucky Mineral (S1) (LRR O, S) Piedmont Floodplain Soils (F19) (MLRA 149A) Stripped Matrix (S6) Piedmont Floodplain Soils (F20) (MLRA 149A, 153C, 153D) Restrictive Layer (if observed): Type: Hard packed clay Depth (inches): 10 Hydric Soil Present? Yes No Redox Dark Surface (F6) (MLRA 150A, 150B) Redox Dark Surface (F7) (LRR P, Y, U) Wetland hydrology must be present, unless disturbed or problematic. (MLRA 153B) Red Parent Material (TF2) Red Parent Material (TF2) Red Parent Material (TF2) Red Parent Material (TF2) Red Parent Material (TF2) Red Parent Material (TF2) Red Parent Material (TF2) Red Parent Material (TF2) Perpleted Dark Surface (F7) (MLRA 151) Sindicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Reduced Vertic (F18) (MLRA 151) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Reduced Vertic (F18) (MLRA 150A, 150B) Piedmont Floodplain Soils (F19) (MLRA 149A) Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D) Restrictive Layer (if observed): Type: Hard packed clay Depth (inches): 10 Hydric Soil Present? Yes No Modern Problematics P					n - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 -	2)			and the second s	N
	70	15 1 0	, T, U)		8 050	6)				/
	0.0000000000000000000000000000000000000		eo oses coness					POR ACTUAL DECOMES	70°00000000000000000000000000000000000	
Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Coast Prairie Redox (A16) (MLRA 150A) Sandy Mucky Mineral (S1) (LRR O, S) Sandy Gleyed Matrix (S4) Stripped Matrix (S6) Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (if observed): Type: Hard packed clay Depth (inches): 10 Depleted Ochric (F11) (MLRA 151) Iron-Manganese Masses (F12) (LRR O, P, T) Iron-Manganese Masses (F12) (LR O, P, T) Iron-Manganese	Muck F	resence (A8) (LRR U)	Redox Depre	essions (F	3)		Very Shall	low Dark Surface (TF12	2)
Thick Dark Surface (A12)	1 cm M	uck (A9) (LRR P, T)		Marl (F10) (L	.RR U)			Other (Exp	plain in Remarks)	
Coast Prairie Redox (A16) (MLRA 150A) Umbric Surface (F13) (LRR P, T, U) wetland hydrology must be present, Sandy Mucky Mineral (S1) (LRR O, S) Delta Ochric (F17) (MLRA 151) unless disturbed or problematic. Sandy Gleyed Matrix (S4) Reduced Vertic (F18) (MLRA 150A, 150B) Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 149A) Stripped Matrix (S6) Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D) Restrictive Layer (if observed): Type: Hard packed clay Depth (inches): 10 Hydric Soil Present? Yes No Remarks:			e (A11)		continued to make	Antibotic State of the Control of th				
Sandy Mucky Mineral (S1) (LRR O, S) Delta Ochric (F17) (MLRA 151) unless disturbed or problematic. Sandy Gleyed Matrix (S4) Reduced Vertic (F18) (MLRA 150A, 150B) Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 149A) Stripped Matrix (S6) Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D) Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (if observed): Type: Hard packed clay Depth (inches): 10							1 155 N	•		
Sandy Gleyed Matrix (S4)							', U)			
Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 149A) Stripped Matrix (S6) Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D) Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (if observed):	And one of the little of the		RRO, S)		reach warrant de communication		OA 450D)	unless	disturbed or problemat	ic.
Stripped Matrix (S6) Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D) Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (if observed): Type: Hard packed clay Depth (inches): 10 Hydric Soil Present? Yesx No Remarks:				All the second s)Δ\		
Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (if observed): Type: Hard packed clay Depth (inches): 10 Hydric Soil Present? Yesx No Remarks:				72					(3D)	
Restrictive Layer (if observed): Type: Hard packed clay Depth (inches): 10 Remarks: Hydric Soil Present? Yes x No			S. T. U)		origin Loan	ily cons (20) (INLIV	1 1437, 1330, 13	,,,,,,	
Type: Hard packed clay Depth (inches): 10 Hydric Soil Present? Yes x No Remarks:	W. San San San San San San San San San San									
Depth (inches): 10 Hydric Soil Present? Yes x No Remarks:										
Remarks:		10						Hydric Soil Pre	esent? Yes X	No
	•			_				,		
		disturbed clay restri	ctive laver n	revented evalua	tion of a f	ull soil nr	ofile (20 in	ches)		
	riara pack	aistai bea ciay resti	ctive layer p	revented evalua	tion or a n	uli 30li pi	01110 (20 111	cricsj.		

Date: 5/18/21

Feature Name: RD_W_004



Photograph Number 1
Photograph Direction West

Comments:



Photograph Number 2
Photograph Direction East

Comments:



Photograph Number 3
Photograph Direction North

Comments:



Photograph Number 4
Photograph Direction South

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region

Project/Site: Dominion CVOW	City/County: Virginia Beach		Sampling Date:5/19/2021
Applicant/Owner: Dominion		State: VA	Sampling Point: RD W 005 PEM
Investigator(s): R. Delahunty			
Landform (hillslope, terrace, etc.): Flat			
Subregion (LRR or MLRA): MLRA 1538 of LRR T Lat:	7) (7) (2)	21 0 10	
Soil Map Unit Name: 38 - Tomotley loam			
Are climatic / hydrologic conditions on the site typical for this time of y			
Are Vegetation \underline{X} , Soil \underline{X} , or Hydrology \underline{X} significantless significant signi	y disturbed? Are "Norm	al Circumstances" p	present? Yesx No
Are Vegetation, Soil, or Hydrology naturally p	roblematic? (If needed	, explain any answe	rs in Remarks.)
SUMMARY OF FINDINGS - Attach site map showin	g sampling point locat	ions, transects	, important features, etc.
Hydrophytic Vegetation Present? Yesx No	is the Sampled Area	ij.	
Hydric Soil Present? Yes _ x _ No No	within a wetland?	Yes	Nox
Wetland Hydrology Present? Yesx No Remarks:			Observed Classifications
Data point taken within an existing overhead utility easement of	characterized as a highly dist	urbed area	Observed Classifications:
with rutting and mixed mesic wetland and upland microtopogra			Cowardin: <u>PEM</u>
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Indica	ators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply))	Surface Soil	
Surface Water (A1) Aquatic Fauna (B			getated Concave Surface (B8)
High Water Table (A2) Marl Deposits (B1		Drainage Pa	
Saturation (A3) Hydrogen Sulfide		Moss Trim L	PART CONTRACTOR AND THE PART CONTRACTOR AND CONTRAC
	heres along Living Roots (C3)		Water Table (C2)
Sediment Deposits (B2) Presence of Redu		Crayfish Bur	rows (C8)
Drift Deposits (B3) Recent Iron Redu	ction in Tilled Soils (C6)	Saturation V	isible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Thin Muck Surfac	e (C7)	Geomorphic	Position (D2)
Iron Deposits (B5) Other (Explain in	Remarks)	Shallow Aqu	itard (D3)
Inundation Visible on Aerial Imagery (B7)		_x FAC-Neutral	Test (D5)
x Water-Stained Leaves (B9)		Sphagnum n	noss (D8) (LRR T, U)
Field Observations:			
Surface Water Present? Yes No _x Depth (inche	s): <u>N/A</u>		
Water Table Present? Yes Nox Depth (inche	s): <u>N/A</u>		
Saturation Present? Yes No _x Depth (inche	s): N/A Wetland	Hydrology Preser	nt? Yesx No
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial pho	tos, previous inspections), if a	vailable:	
,	, , , , , , , , , , , , , , , , , , , ,		
Remarks:			
PEM			
H			4

			t Indicator	Dominance Test worksheet:		
Tree Stratum (Plot size: 30 ft) 1. N/A		1000	? Status	Number of Dominant Species That Are OBL, FACW, or FAC:	1	(A)
2				Total Number of Dominant Species Across All Strata:	1	(B)
4. 5.				Percent of Dominant Species That Are OBL, FACW, or FAC:	100.0%	(A/B)
6				Prevalence Index worksheet:		
	0	= Total Co	over			
50% of total cover: 0	20% of	f total cove	er: <u> </u>	Total % Cover of:		
Sapling Stratum (Plot size: 30 ft)				OBL species60 x		
1. <u>N/A</u>				FACW species 20 x	2 =40	_
2.				FAC species0 x	3 = 0	_
				FACU species0 x	4 = 0	_
3				UPL species0 x	5 = 0	
4				Column Totals: 80 (A		
5			-			
6				Prevalence Index = B/A =	1.25	_
	0			Hydrophytic Vegetation Indica	ators:	
50% of total cover: 0	20% of	f total cove	er:0	x 1 - Rapid Test for Hydrophy	ytic Vegetation	
Shrub Stratum (Plot size: 30 ft)				x 2 - Dominance Test is >50%	%	
1. <u>N/A</u>		10 <u></u>		X 3 - Prevalence Index is ≤3.0	O ¹	
2				Problematic Hydrophytic Ve	egetation¹ (Expla	in)
3						
4.				¹ Indicators of hydric soil and we	tland hydrology r	nuct
5.				be present, unless disturbed or		iiusi
6.				Definitions of Five Vegetation		
	0					
EOO/ of total agrees: 0				Tree - Woody plants, excluding		
50% of total cover: 0	20% 0	T total cove	er:	approximately 20 ft (6 m) or moi (7.6 cm) or larger in diameter at		
Herb Stratum (Plot size: 5 ft)				(7.0 cm) or larger in diameter at	breast neight (D	D11).
,			OBL_	Sapling – Woody plants, exclud		
2. <u>Carex vulpinoidea, Common Fox Sedge</u>			FACW_	approximately 20 ft (6 m) or mothan 3 in. (7.6 cm) DBH.	re in height and I	ess
3. Carex crinita, Fringed Sedge	10	No	FACW	than 3 iii. (7.0 cm) DBH.		
4. 5.				Shrub – Woody plants, excludir approximately 3 to 20 ft (1 to 6 r		
6				Herb - All herbaceous (non-wo-	ody) plants, inclu	dina
7.		2121		herbaceous vines, regardless of	f size, <u>and</u> woody	, ,
8	47. S			plants, except woody vines, less 3 ft (1 m) in height.	s than approxima	tely
9						
10				Woody vine – All woody vines,	regardless of he	ight.
11.	-					
	80	= Total Co	over			
50% of total cover: 40	Annual Control of the					
100000 to 100000 10000 10000 10000 100000 1000000	20700	i total cove	.1			
Woody Vine Stratum (Plot size: 30 ft)						
1. <u>N/A</u>						
2						
3						
4		90				
5				Hydrophytic		
	0	= Total Co	over	Vegetation	N. 1. 200	
50% of total cover: 0	20% of	f total cove	er:0	Present? Yesx_	No	
Remarks: (If observed, list morphological adaptations belo	w).			I.		
and the second second of the second s	over the contract of the contr					

SOIL Sampling Point: RD_W_005_PEM

FOR ANY ANY	cription: (Describe	to the depth				or confirm	the absence of	f indicators.)
Depth (inches)	Matrix Color (moist)	<u></u> %	Redo Color (moist)	x Features	_Type ¹ _	Loc ²	Texture	Remarks
0-20	10YR 5/1	22	YR 5/6	10%	C	M	Sandy clay	Nomano
0 20	1011/3/1		11(3)0	10/0	<u> </u>	101	Salidy Clay	
	-					·	<u> </u>	
10.	10					370		2
264								
// 	3							
<u> </u>	¥			-		-		
			=1 =y =1			-		1
4	-							
	oncentration, D=Dep					ains.		L=Pore Lining, M=Matrix.
Hydric Soil	Indicators: (Applic	able to all LR	Rs, unless othe	rwise note	ed.)		Indicators fo	or Problematic Hydric Soils ³ :
Histoso	. 10 - 140		Polyvalue Be				97	ck (A9) (LRR O)
	pipedon (A2)		Thin Dark S					ck (A10) (LRR S)
Manager 2007 175 176	istic (A3)		Loamy Muck			(O)		Vertic (F18) (outside MLRA 150A,B)
	en Sulfide (A4)		Loamy Gley	na na managana MW	F2)			t Floodplain Soils (F19) (LRR P, S, T)
1 17	d Layers (A5) Bodies (A6) (LRR F	T II)	X Depleted Ma Redox Dark		6)			ous Bright Loamy Soils (F20) A 153B)
0.0000000000000000000000000000000000000	ucky Mineral (A7) (L	eo como comes	Depleted Da	000000000000000000000000000000000000000			0 DOM: 0.000 CFC-00000	ent Material (TF2)
A CONTRACT OF THE CONTRACT OF	esence (A8) (LRR L	10 Mary 82 P	Redox Depr				eacht som	allow Dark Surface (TF12)
All Inches	uck (A9) (LRR P, T)		Marl (F10) (I					xplain in Remarks)
Deplete	d Below Dark Surfac	e (A11)	Depleted Oc	hric (F11)	MLRA 1	51)		
	ark Surface (A12)		Iron-Mangar	iese Masse	es (F12) (LRR O, P,	*	ors of hydrophytic vegetation and
	rairie Redox (A16) (I		Umbric Surfa			', U)		nd hydrology must be present,
72C-000F13011-1915E1	Mucky Mineral (S1) (LRR O, S)	Delta Ochric	Marie Marie			unles	s disturbed or problematic.
All Carriers (Sec.)	Gleyed Matrix (S4)	,	Reduced Ve				2.4.	
	Redox (S5) I Matrix (S6)	,	Piedmont Fl				9A) A 149A, 153C, 1	53D)
	rface (S7) (LRR P, 3	S.T.U)	Anomalous	Silgili Loan	ily Solis (rzo) (WERA	4 143A, 133C, 1	330)
	Layer (if observed)							
Type: No								
000000000000000000000000000000000000000	ches): N/A		_				Hydric Soil Pi	resent? Yes <u>x</u> No
Remarks:	, <u>, , , , , , , , , , , , , , , , , , </u>		_				, a.i.o Guii i	
Nomana.								

Date: 5/19/21

Feature Name: RD_W_005_PEM



Photograph Number 1
Photograph Direction West

Comments:



Photograph Number 2
Photograph Direction South

Comments:



Photograph Number 3

Photograph Direction East

Comments:



Photograph Number 4
Photograph Direction North

Photograph Log

Date:	Feature Name: RD_W_005_PEM
Photograph Number5	Photograph Number <u>6</u>
Photograph Direction	Photograph Direction
Comments: View of soil core	Comments:
Photograph Number7	Photograph Number <u>8</u>
Photograph Direction	Photograph Direction
Comments:	Comments:

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: Dominion CVOW	City/County: Virginia E	Beach/Virginia Beach	Sampling Date:	5/19/2021
Applicant/Owner: Dominion		State: VA	Sampling Point: R	D_W_005_PFO
Investigator(s): R. Delahunty	Section, Township, Ra	ange:		
Landform (hillslope, terrace, etc.): Flat				(%): 0
Subregion (LRR or MLRA): MLRA 153B of LRR T Lat:	- 10 VV 00	27 00 10	70.0	& 5 M
Soil Map Unit Name: 38 - Tomotley loam				III. <u>17 030 1</u>
Are climatic / hydrologic conditions on the site typical for this time of				
				N.
Are Vegetation, Soil, or Hydrology significar				No
Are Vegetation, Soil, or Hydrology naturally	problematic? (If no	eeded, explain any answe	rs in Remarks.)	
SUMMARY OF FINDINGS - Attach site map showi	ng sampling point l	locations, transects	, important fea	ıtures, etc.
Hydrophytic Vegetation Present? Yesx No				
Hydric Soil Present? Yes x No	is the Samplet			
Wetland Hydrology Present? Yes X No	within a wetia	nd? Yes <u>x</u>	No	
Remarks:			Observed Classif	ications:
Data point was taken within the forested portion of RD_W_00	05. The PEM characteris	stics of RD_W_005	Cowardin: <u>PFO</u>	
are similar to those depicted on dataform RD_W_003.				
HYDROLOGY				
Wetland Hydrology Indicators:		Secondary Indica	ators (minimum of tw	vo required)
Primary Indicators (minimum of one is required; check all that app	ly)	Surface Soil	Cracks (B6)	
Surface Water (A1) Aquatic Fauna (B13)	_x Sparsely Veg	getated Concave Su	urface (B8)
High Water Table (A2) Marl Deposits (B	315) (LRR U)	Drainage Pa	tterns (B10)	
Saturation (A3) Hydrogen Sulfid	e Odor (C1)	_x Moss Trim L	nes (B16)	
Water Marks (B1) Oxidized Rhizos	spheres along Living Roots	s (C3) Dry-Season	Water Table (C2)	
Sediment Deposits (B2) Presence of Rec	duced Iron (C4)	Crayfish Bur	rows (C8)	
Drift Deposits (B3) Recent Iron Rec	duction in Tilled Soils (C6)	Saturation V	isible on Aerial Imag	gery (C9)
X Algal Mat or Crust (B4) Thin Muck Surfa		Geomorphic	Position (D2)	
Iron Deposits (B5) Other (Explain in	n Remarks)	Shallow Aqu	tard (D3)	
Inundation Visible on Aerial Imagery (B7)		_x FAC-Neutral	Test (D5)	
Water-Stained Leaves (B9)		Sphagnum n	noss (D8) (LRR T, l	J)
Field Observations:				
Surface Water Present? Yes No _x Depth (inch				
Water Table Present? Yes No _x Depth (inch				
Saturation Present? Yes No _x Depth (inch	nes): N/A W	etland Hydrology Preser	it? Yesx	No
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial ph	otos, previous inspections	s), if available:		
100 000 000 000 000 000 000 000 000 000				
Remarks:				
Buttressed trunks were observed within the wetland.				
İ				+

	Absolute Dominant Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 ft)	% Cover Species? Status	Number of Dominant Species
1. Acer rubrum, Red Maple		That Are OBL, FACW, or FAC:4 (A)
2. Fraxinus pennsylvanica, Green Ash		Total Number of Dominant Species Across All Strate: 4 (B)
3		Species Across All Strata: 4 (B)
4 5		Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
6		Barreland
	50 = Total Cover	Prevalence Index worksheet:
50% of total cover: 25	20% of total cover:10	Total % Cover of: Multiply by:
Sapling Stratum (Plot size: 30 ft)		OBL species0 x 1 =0
1. Acer rubrum, Red Maple	20 Yes FAC	FACW species30 x 2 =60
2.		FAC species45 x 3 =135
3.		FACU species 0 x 4 = 0
4.		UPL species0 x 5 =0
5.		Column Totals:75(A)195(B)
6.		Prevalence Index = B/A =2.60
	= Total Cover	Hydrophytic Vegetation Indicators:
50% of total cover: 10	20% of total cover: 4	1 - Rapid Test for Hydrophytic Vegetation
Shrub Stratum (Plot size: 30 ft)		x 2 - Dominance Test is >50%
1. <u>N/A</u>		x 3 - Prevalence Index is ≤3.0¹
2		Problematic Hydrophytic Vegetation¹ (Explain)
3.		
4.		¹ Indicators of hydric soil and wetland hydrology must
5.		be present, unless disturbed or problematic.
6.		Definitions of Five Vegetation Strata:
	= Total Cover	
50% of total cover: 2.5	20% of total cover: 1	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in.
Herb Stratum (Plot size: 30 ft)	20 % of total cover	(7.6 cm) or larger in diameter at breast height (DBH).
1. Carex crinita, Fringed Sedge	5 Vos EACW	
		Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less
2		than 3 in. (7.6 cm) DBH.
3		Church 18/order plants avaluating considerations
4. 5.		Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.
6.		Herb – All herbaceous (non-woody) plants, including
7		herbaceous vines, regardless of size, and woody
8.		plants, except woody vines, less than approximately 3 ft (1 m) in height.
9.		o it (1 m) in neight.
10		Woody vine - All woody vines, regardless of height.
11		
	5 = Total Cover	
FOW of total payor: 2.5	20% of total cover: 1	
WORKS THE SHOOT SHOW IN STREET	20% of total cover1	
Woody Vine Stratum (Plot size: 30 ft)		
1. <u>N/A</u>		
2		
3		
4	·	
5		Hydrophytic
	0 = Total Cover	Vegetation
50% of total cover:0	20% of total cover:0	Present?
Remarks: (If observed, list morphological adaptations belo	OW).	•

Soll Sampling Point: RD_W_005_PFO

Depth	cription: (Describe Matrix	to the depti		x Feature		or confirm	The absence of I	ndicators.)
(inches)	Color (moist)	%	Color (moist)	<u>%</u>	Type [†]	Loc ²	Texture	Remarks
0-8	10YR 3/2	100%			1112		Silty loam	
8-20	10YR 5/1	95%	10YR 3/6	5%	С	M	Clay	
	•		•					
100	1							
AC.	()			-		N.		
22		. — .				-		
2	(<u>1 </u>	:	i sy si					1
12:								
¹Type: C=C	oncentration, D=Dep	letion, RM=	Reduced Matrix, MS	S=Masked	d Sand Gra	ains.	² Location: PL:	=Pore Lining, M=Matrix.
Hydric Soil	Indicators: (Applic	able to all L	RRs, unless other	wise not	ed.)		Indicators for	Problematic Hydric Soils ³ :
Histoso	I (A1)		Polyvalue Be	low Surfa	ce (S8) (L	RR S, T, L	J) 1 cm Muck	(A9) (LRR O)
Histic E	pipedon (A2)		Thin Dark Su					(A10) (LRR S)
A MANAGEMENT AND A PARTY OF A PAR	listic (A3)		Loamy Muck		series investment transfer	O)		Vertic (F18) (outside MLRA 150A,B)
	en Sulfide (A4)		Loamy Gleye	a an announced W	(F2)			Floodplain Soils (F19) (LRR P, S, T)
97	d Layers (A5) : Bodies (A6) (LRR P	T 10	x Depleted Mai		6)		Anomalous	s Bright Loamy Soils (F20)
	ucky Mineral (A7) (LI		Depleted Dar				AND COMMON TO SERVICE AND COMMON	nt Material (TF2)
A STATE OF THE STA	resence (A8) (LRR L	NO. 20 104.0 EX	Redox Depre				AND AND AND AND AND	ow Dark Surface (TF12)
War III.	uck (A9) (LRR P, T)	,	Marl (F10) (L		-,			plain in Remarks)
Deplete	d Below Dark Surfac	e (A11)	Depleted Oct	nric (F11)	(MLRA 1	51)		
- 17	ark Surface (A12)		Iron-Mangan			1		rs of hydrophytic vegetation and
	Prairie Redox (A16) (I					, U)		d hydrology must be present,
A STATE OF THE STA	Mucky Mineral (S1) (I	LRR O, S)	Delta Ochric	The second of the second		0.A (4.60E)		disturbed or problematic.
40	Gleyed Matrix (S4) Redox (S5)		Reduced Ver Piedmont Flo					
- No. 1990	d Matrix (S6)		N				A 149A, 153C, 15	3D)
	urface (S7) (LRR P, \$	S, T, U)		ngni Loui	,	20) (211	, 1000, 10	
V 2014 100000 - 01	Layer (if observed):	NITO COLENO SUCCESSION						
Type: No	one							
Depth (ir	nches): N/A						Hydric Soil Pre	esent? Yes <u>x</u> No
Remarks:	15 AV							

Date: 5/19/21

Feature Name: RD_W_005_PFO



Photograph Number 1
Photograph Direction South

Comments:



Photograph Number 2
Photograph Direction East

Comments:



Photograph Number 3
Photograph Direction West

Comments:



Photograph Number 4
Photograph Direction North

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region

Project/Site: Dominion CVOW	City/County: Virginia	Beach/Virginia Beach	Sampling Date:5/19/2021
Applicant/Owner: Dominion		State: VA	Sampling Point: RD W 005 UP
Investigator(s): R. Delahunty	Section, Township, R	Range:	
Landform (hillslope, terrace, etc.): Ridge			
Subregion (LRR or MLRA): MLRA 153B of LRR T Lat:		20 21 00 10	7.0 1 4 5 0
Soil Map Unit Name: 38 - Tomotley loam		NWI classific	
Are climatic / hydrologic conditions on the site typical for this time of			
Are Vegetation, Soil, or Hydrology significa			
Are Vegetation, Soil, or Hydrology naturally	problematic? (If	needed, explain any answe	ers in Remarks.)
SUMMARY OF FINDINGS - Attach site map show	ing sampling point	locations, transects	s, important features, etc.
Hydrophytic Vegetation Present? Yesx No		ed Area	
Hydric Soil Present? Yes No _ x Wetland Hydrology Present? Yes No _ x	within a Wetl	and? Yes	No×
Remarks:	_		Observed Classifications:
High spot within wetland characterized as an upland forest.			Cowardin:
The special section of the section o			Cowardin.
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Indic	ators (minimum of two required)
Primary Indicators (minimum of one is required; check all that app	nlv)		Cracks (B6)
Surface Water (A1) Aquatic Fauna			getated Concave Surface (B8)
High Water Table (A2) Marl Deposits (atterns (B10)
Saturation (A3) Hydrogen Sulfice		Moss Trim L	A CONTRACTOR AND AND AND AND AND AND AND AND AND AND
	spheres along Living Roo		Water Table (C2)
Sediment Deposits (B2) Presence of Re		Crayfish Bur	CONTRACTOR CONTRACTOR CONTRACTOR
	duction in Tilled Soils (C6	Saturation V	/isible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Thin Muck Surf	ace (C7)	Geomorphic	Position (D2)
Iron Deposits (B5) Other (Explain	in Remarks)	Shallow Aqu	uitard (D3)
Inundation Visible on Aerial Imagery (B7)		FAC-Neutra	I Test (D5)
Water-Stained Leaves (B9)		Sphagnum r	moss (D8) (LRR T, U)
Field Observations:			
Surface Water Present? Yes No _x Depth (incl			
Water Table Present? Yes No _x _ Depth (incl	hes): <u>N/A</u>		
Saturation Present? Yes No _x _ Depth (includes capillary fringe)	hes): <u>N/A</u> v	Vetland Hydrology Prese	nt? Yes Nox
Describe Recorded Data (stream gauge, monitoring well, aerial pl	hotos, previous inspection	ns), if available:	
Remarks:			
H			H

	Absolute Dominant Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 ft)	% Cover Species? Status	Number of Dominant Species
1. Pinus taeda, Loblolly Pine	30YesFAC	That Are OBL, FACW, or FAC:3 (A)
2		T-t-t Nt
3		Total Number of Dominant Species Across All Strata: 5 (B)
12		
4		refeelt of Dominant Opecies
5	·	That Are OBL, FACW, or FAC: 60.0% (A/B)
6		
	30 = Total Cover	Prevalence Index worksheet:
50% of total cover: 15	20% of total cover: 6	Total % Cover of: Multiply by:
Sapling Stratum (Plot size: 30 ft)		OBL species0 x 1 =0
	40 Vaa FAC	FACW species0 x 2 =0
1. <u>Liquidambar styraciflua, Sweet-Gum</u>		FAC species75 x 3 =225
2		FACU species x 4 = 80
3	· <u></u>	
4		UPL species0 x 5 =0
5		Column Totals: <u>95</u> (A) <u>305</u> (B)
		2.21
6		Prevalence Index = B/A =3.21
	= Total Cover	Hydrophytic Vegetation Indicators:
A2	20% of total cover: 8	1 - Rapid Test for Hydrophytic Vegetation
Shrub Stratum (Plot size: 30 ft)		X 2 - Dominance Test is >50%
1. <u>N/A</u>		3 - Prevalence Index is ≤3.01
2.		
		Problematic Hydrophytic Vegetation¹ (Explain)
3		
4		¹ Indicators of hydric soil and wetland hydrology must
5		be present, unless disturbed or problematic.
6		Definitions of Five Vegetation Strata:
	0 = Total Cover	To 10/2 de la desarra de la disconsidera de la disc
50% of total cover: 0	20% of total cover:0	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in.
THE PARTY AND TH	20 70 OI total cover	(7.6 cm) or larger in diameter at breast height (DBH).
Herb Stratum (Plot size: 30 ft)		(, , , , , , , , , , , , , , , , , , ,
	10 Yes FACU	Sapling – Woody plants, excluding woody vines,
Parthenocissus quinquefolia, Virginia-Creeper	10 Yes FACU	approximately 20 ft (6 m) or more in height and less
3. Morella cerifera, Southern Bayberry	5 Yes FAC	than 3 in. (7.6 cm) DBH.
4		Shrub – Woody plants, excluding woody vines,
5.		approximately 3 to 20 ft (1 to 6 m) in height.
		Harb All barbaras (and constant Salanta includion
6		Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody
7		plants, except woody vines, less than approximately
8		3 ft (1 m) in height.
9		
10		Woody vine - All woody vines, regardless of height.
, -		
11		
0000000000 00000 00000	= Total Cover	
50% of total cover: <u>12.5</u>	20% of total cover:5	
Woody Vine Stratum (Plot size: 30 ft)		
1. <u>N/A</u>		
2.		
-100		
3		
4		
5		Hydrophytic
	0 = Total Cover	Vegetation
50% of total cover: 0	20% of total cover: 0	Present? Yes X No
Remarks: (If observed, list morphological adaptations beld		
Tromains. (Il observed, list morphological adaptations belo	,	
1		

SolL Sampling Point: RD_W_005_UP

Profile Des	cription: (Describe	to the depth n	eeded to docu	ment the i	indicator	or confirm t	the absence	of indicate	ors.)	
Depth (in aboa)	Matrix Color (moist)			x Feature		1.2.2	Tautuma		Demonto	
(inches)			Color (moist)	%	_Type'	Loc ²	Texture	- Developed	Remarks	
0-20	10YR 5/2	50%		-170	-			Dual mati		
10	10YR 5/6	50%				y		Dual mate	rix	
20.										
										_
	· ·			-1/4		-				
<u> </u>	-									
-	() 		-1			 .			15	
12	() <u>-</u>									
¹Type: C=C	oncentration, D=Dep	letion, RM=Red	duced Matrix, M	S=Masked	d Sand Gra	ains.	² Location:	PL=Pore L	ining, M=Matri	x.
Hydric Soil	Indicators: (Applic	able to all LRF	Rs, unless othe	rwise not	ed.)				matic Hydric	
Histoso	I (A1)	_	Polyvalue B	elow Surfa	ce (S8) (L	RR S, T, U)	1 cm N	/luck (A9) (I	RR O)	
Histic E	pipedon (A2)	_	Thin Dark S	urface (S9	(LRR S,	T, U)	2 cm N	/luck (A10)	(LRR S)	
//////////////////////////////////////	istic (A3)	<u></u>	Loamy Muck		real regulation terms.	O)	100000000000000000000000000000000000000			ILRA 150A,B)
	en Sulfide (A4)	-	Loamy Gley		(F2)			and the second second second	ain Soils (F19)	. D
	d Layers (A5) : Bodies (A6) (LRR P		Depleted Ma		-6)			3.73	Loamy Soils (F20)
	ucky Mineral (A7) (LR		_ Redox Dark _ Depleted Da					RA 153B) arent Mater	ial (TF2)	
A CONTRACT OF THE CONTRACT OF	resence (A8) (LRR L	, st 1500 to	Redox Depr				The second so		Surface (TF1	2)
W. Marin	uck (A9) (LRR P, T)	-	Marl (F10) (I		0)			Explain in		-,
	d Below Dark Surfac	e (A11)	Depleted Oc		(MLRA 1	51)		· · · · · · · · · · · · · · · · · · ·	***************************************	
Thick D	ark Surface (A12)	_	Iron-Mangar	ese Mass	es (F12) (LRR O, P, T) ³ Indic	ators of hyd	drophytic veget	ation and
	Prairie Redox (A16) (I		Umbric Surfa			, U)		-	ogy must be pr	
1000 - 000 -	Mucky Mineral (S1) (I	_RRO,S)_	Delta Ochric	revolution and an arrangement	10-10-00 - 10-10 - 10-		unle	ess disturbe	ed or problema	tic.
- Control (2007)	Gleyed Matrix (S4)	-	Reduced Ve							
	Redox (S5) d Matrix (S6)	-	_ Piedmont FI				A) 149A, 153C	153D)		
	urface (S7) (LRR P, \$	- S.T.U)	Anomalous	Silgili Loai	illy Solis (i	-20) (IVILIKA	145A, 155C	, 1330)		
V 2000 CO CO	Layer (if observed):									
Type:	_a, (0200.10a).									
Depth (in	iches).		-				Hydric Soil	Present?	Yes	No ^x
Remarks:			-				Tiyano con	11030111.		
Remarks.										

Date: 5/19/21

Feature Name: RD_W_005_UP





Photograph Direction _____

Comments: View of soil core

Photograph Direction South

Comments:





Photograph Direction North

Comments:

Photograph Direction West

Photograph Log

Date: 5/19/21	Feature Name: RD_W_005_UP
Photograph Direction East	Photograph Direction
Comments:	Comments:
Photograph Direction	Photograph Direction
Comments:	Comments:

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: Dominion CVOW	City/County: Virginia Beach		Sampling Date:	5/19/2021
Applicant/Owner: Dominion		State: VA	Sampling Point: RE)_W_006
Investigator(s): R. Delahunty				
Landform (hillslope, terrace, etc.): Flat				(%): 0
Subregion (LRR or MLRA): MLRA 153B of LRR T Lat:	70 931 90 9	0.00	7.5	6 S W
				II. <u>VV 030+</u>
Soil Map Unit Name: 38 - Tomotley loam				
Are climatic / hydrologic conditions on the site typical for this time of y		2		
Are Vegetation, Soil, or Hydrology significantl				No
Are Vegetation, Soil, or Hydrology naturally p	roblematic? (If needed,	explain any answe	rs in Remarks.)	
SUMMARY OF FINDINGS - Attach site map showin	g sampling point location	ons, transects	, important fea	tures, etc.
			~	
Hydrophytic Vegetation Present? Yes No	is the Sampled Area			
Hydric Soil Present? Yes _ x _ No No	within a Wetland?	Yes	Nox	
Wetland Hydrology Present? Yesx No Remarks:	•		Observed Classifi	
Data point taken within an existing overhead utility easement of	characterized as a highly distu	irbed area	Cowardin: PEM	cations:
with rutting and mixed mesic wetland and upland microtopogra	0 ,		COWARDIN: PEIVI	
HYDROLOGY				
The Desire of th		Casandani Indias	store (minimum of tu	o required)
Wetland Hydrology Indicators:		-	ators (minimum of tw	o requirea)
Primary Indicators (minimum of one is required; check all that apply)	····	Surface Soil		urface (DO)
Surface Water (A1) Aquatic Fauna (B High Water Table (A2) Marl Deposits (B1		Sparsely veg	getated Concave Su	rrace (B6)
Saturation (A3) Hydrogen Sulfide		Moss Trim L		
	heres along Living Roots (C3)		Water Table (C2)	
Sediment Deposits (B2) Presence of Redu		Crayfish Bur	ACCOUNT NOTICE OF THE PARTY OF	
	ction in Tilled Soils (C6)	Water and the second second	isible on Aerial Imag	ery (C9)
Algal Mat or Crust (B4) Thin Muck Surfac			Position (D2)	, (,
Iron Deposits (B5) Other (Explain in		Shallow Aqu		
Inundation Visible on Aerial Imagery (B7)	,	× FAC-Neutral		
× Water-Stained Leaves (B9)			noss (D8) (LRR T, U	n
Field Observations:				
Surface Water Present? Yes No _x Depth (inche	s): N/A			
Water Table Present? Yes No _x Depth (inche				
Saturation Present? Yes No _x Depth (inche		Hydrology Preser	it? Yes x	No
(includes capillary fringe)	w	1170 7570		
Describe Recorded Data (stream gauge, monitoring well, aerial pho	tos, previous inspections), if ava	allable:		
D				
Remarks:				
PEM				
				1

VEGETATION	(Five Strata) -	Use scientific names	of plants

VEGETATION (Five Strata) – Use scientific nan	nes of pla	ants.		Sampling Point: RD W 006
		Dominant		Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size: <u>30 ft</u>) 1. <u>N/A</u>				Number of Dominant Species That Are OBL, FACW, or FAC:1 (A)
2 3				Total Number of Dominant Species Across All Strata:1 (B)
4 5				Percent of Dominant Species That Are OBL, FACW, or FAC:100.0% (A/B)
6				Prevalence Index worksheet:
				Total % Cover of: Multiply by:
50% of total cover: 0	20% of	total cover	:0	OBL species
Sapling Stratum (Plot size: 30 ft)				FACW species 20 x 2 = 40
1. <u>N/A</u>				FAC species 0 x 3 = 0
2				FACU species 0 x 4 = 0
3				UPL species 0 x 5 = 0
4				Column Totals: 80 (A) 100 (B)
5				Column Totals (A) (B)
6				Prevalence Index = B/A =1.25
	0	= Total Cov	/er	Hydrophytic Vegetation Indicators:
50% of total cover:0	20% of	total cover	:0	x 1 - Rapid Test for Hydrophytic Vegetation
Shrub Stratum (Plot size: 30 ft)				x 2 - Dominance Test is >50%
1. <u>N/A</u>				x 3 - Prevalence Index is ≤3.01
2				Problematic Hydrophytic Vegetation ¹ (Explain)
3				
4	(¹ Indicators of hydric soil and wetland hydrology must
5				be present, unless disturbed or problematic.
6				Definitions of Five Vegetation Strata:
	0 :	= Total Cov	er er	Tree – Woody plants, excluding woody vines,
50% of total cover:0	20% of	total cover	0	approximately 20 ft (6 m) or more in height and 3 in.
Herb Stratum (Plot size: 5 ft)				(7.6 cm) or larger in diameter at breast height (DBH).
1. Juncus effusus, Lamp Rush	60	Yes	OBL_	Sapling – Woody plants, excluding woody vines,
2. Carex vulpinoidea, Common Fox Sedge	10	No	<u>FACW</u>	approximately 20 ft (6 m) or more in height and less
3. Carex crinita, Fringed Sedge	10	No	FACW	than 3 in. (7.6 cm) DBH.
4				Shrub – Woody plants, excluding woody vines,
5				approximately 3 to 20 ft (1 to 6 m) in height.
6.				Herb - All herbaceous (non-woody) plants, including
7.				herbaceous vines, regardless of size, and woody
8.				plants, except woody vines, less than approximately 3 ft (1 m) in height.
9.				
10			224 5-2	Woody vine – All woody vines, regardless of height.
11				
		= Total Co	er	
50% of total cover: 40	_			
Woody Vine Stratum (Plot size: 30 ft)	_ 20 70 01			
1. <u>N/A</u>				
2				
3				
4				
5		Total Cov		Hydrophytic Vegetation
E00/ -f4-4-1	******************			Present? Yes No
50% of total cover: 0	72.	total cover	:0	0 000
Remarks: (If observed, list morphological adaptations belo	w).			

SolL Sampling Point: RD_W_006

Depth	cription: (Describe Matrix	to the depth ne		x Features		or commi	tile absence of	mulcators.)
(inches)	Color (moist)	%C	color (moist)	<u> </u>	Type ¹ _	Loc ²	Texture	Remarks
0-20	10YR 5/1	90% 10Y	R 5/6	10%	С	M	Sandy clay	
-		· · · · · · · · · · · · · · · · · · ·					· · · · · · · · · · · · · · · · · · ·	
	-					(V <u> </u>		
10.	7 <u>74</u>					<u> </u>		
20	· .	W 		3/4 ************************************	9.	.		
				-		12		
		. — —						
	Concentration, D=Dep					ains.		L=Pore Lining, M=Matrix.
G.121 U	Indicators: (Applic							r Problematic Hydric Soils ³ :
Histoso	. 1) - 40	-	_ Polyvalue Be				50	ck (A9) (LRR O)
	pipedon (A2)	_	_ Thin Dark Su					ck (A10) (LRR S)
1850 E-500 V-505 E-7	listic (A3) en Sulfide (A4)	40	Loamy MuckLoamy Gleye			(0)		Vertic (F18) (outside MLRA 150A,I t Floodplain Soils (F19) (LRR P, S, 1
	d Layers (A5)		Depleted Ma	n - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 -	12)			us Bright Loamy Soils (F20)
7 7	Bodies (A6) (LRR P	To-	Redox Dark	8 050	6)		(MLRA	
0.0000000000000000000000000000000000000	ucky Mineral (A7) (LF		_ Depleted Da				0.4 ACMIN 170.000001	ent Material (TF2)
Muck F	resence (A8) (LRR U)	Redox Depre				Very Sha	llow Dark Surface (TF12)
1 cm M	uck (A9) (LRR P, T)		Marl (F10) (L				Other (E)	plain in Remarks)
Deplete	d Below Dark Surfac	e (A11)	_ Depleted Oc	hric (F11)	(MLRA 1	51)	2000	
	ark Surface (A12)	antiques (China March) Antiques (China March)	_ Iron-Mangan			3 870 70	(A)	ors of hydrophytic vegetation and
	Prairie Redox (A16) (I		_ Umbric Surfa			', U)		nd hydrology must be present,
AND	Mucky Mineral (S1) (I	_RRO,S) _	_ Delta Ochric	react warrant entrance		0.0 4500)	unless	s disturbed or problematic.
	Gleyed Matrix (S4) Redox (S5)		Reduced VerPiedmont Flo				0.Δ.\	
	d Matrix (S6)	1	=//				A 149A, 153C, 1	53D)
	urface (S7) (LRR P, \$	S. T. U)	/ 11011101003 1	origin Loui	ny 00113 ((W.E.)	1 14071, 1000, 1	00 D ,
	Layer (if observed):							
Type: N								
	nches): N/A						Hydric Soil Pr	resent? Yes <u>x</u> No
Remarks:							,	
iveillains.								

Date: 5/19/21

Feature Name: RD_W_006



Photograph Number 1
Photograph Direction West

Comments:



Photograph Number 2
Photograph Direction South

Comments:



Photograph Number 3

Photograph Direction East

Comments:



Photograph Number 4
Photograph Direction North

Photograph Log

Date:	Feature Name: RD_W_006
Photograph Number5	Photograph Number 6
Photograph Direction	Photograph Direction
Comments: View of soil core	Comments:
Photograph Number7	Photograph Number 8
Photograph Direction	Photograph Direction
Comments:	Comments:

RD_W_006_UP RD_W_007_UP

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region

Project/Site: Dominion CVOW			City/County: Virgin	nia Beach/	Virginia Beach	Sampling Date:	5/19/2021
Applicant/Owner: Dominion					State: VA	Sampling Point: RE	W 006 UP &
							D_W_007_UP
Landform (hillslope, terrace, etc.							(%): 0
Subregion (LRR or MLRA): MLR							
Soil Map Unit Name: 38 - Tomotle						cation: N/A	
Are climatic / hydrologic condition							****
Are Vegetation, Soil				Are "Norma	l Circumstances"	oresent? Yes <u>x</u>	No
Are Vegetation, Soil	, or Hydrology	naturally pr	oblematic?	If needed,	explain any answe	ers in Remarks.)	
SUMMARY OF FINDINGS	S - Attach site	map showing	g sampling poi	nt locatio	ons, transects	, important fea	tures, etc.
	a					<u> </u>	
Hydrophytic Vegetation Presen		Nox	is the Sain	pled Area			
Hydric Soil Present?		Nox	within a W	etland?	Yes	No×	
Wetland Hydrology Present? Remarks:		Nox				01	
Data point taken adjacent to	a gravel road chara	actorized as an e	aarly successional	ecotone		Observed Classific	ı
Data point taken adjacent to	a graver road chara	icterized as arre	carry successionar	ecotone.		Cowardin:	
HYDROLOGY							
Wetland Hydrology Indicator	s:					ators (minimum of tw	o required)
Primary Indicators (minimum of	f one is required; che	ck all that apply)			Surface Soil		
Surface Water (A1)	A	quatic Fauna (B1	13)			getated Concave Su	rface (B8)
High Water Table (A2)		larl Deposits (B1			Drainage Pa		
Saturation (A3)		ydrogen Sulfide			Moss Trim L	A 1150 M 100 M 100 M 100 M 1	
Water Marks (B1)			neres along Living F	loots (C3)		Water Table (C2)	
Sediment Deposits (B2)		resence of Redu		00)	Crayfish Bur		(00)
Drift Deposits (B3)			ction in Tilled Soils (C6)		isible on Aerial Imag	ery (C9)
Algal Mat or Crust (B4)	17 71	hin Muck Surface	- G		Geomorphic		
Iron Deposits (B5) Inundation Visible on Aeria	N-1	ther (Explain in F	temarks)		Shallow Aqu FAC-Neutral		
Water-Stained Leaves (B9						noss (D8) (LRR T, U	n l
Field Observations:	<i>i</i>				Opinagriani	11000 (00) (21111 1, 0	
Surface Water Present?	Yes Nox	Denth (inches	s)· N/A				
Water Table Present?	Yes No _x						
Saturation Present?	Yes No _x	Depth (inches	s): N/A	Wetland I	Hydrology Preser	nt? Yes	No_x_
(includes capillary fringe)	165165	_ Boptii (monet	5)	rreduita	Tyurology (resci		
Describe Recorded Data (strea	m gauge, monitoring	well, aerial phot	os, previous inspec	tions), if av	ailable:		
Remarks:							
							1

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

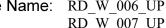
		ants.		Sampling Point: RD_W_006_U
		Dominant		Dominance Test worksheet:
Tree Stratum (Plot size: 30 ft)		Species?	Status	Number of Dominant Species
1. <u>N/A</u>				That Are OBL, FACW, or FAC:1 (A)
2				Total Number of Dominant
3				Species Across All Strata: 2 (B)
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC:50.0% (A/B)
6				David and the state of the stat
	0	= Total Cov	er	Prevalence Index worksheet:
50% of total cover:0	20% of	total cover:	0	Total % Cover of: Multiply by:
Sapling Stratum (Plot size: 30 ft)				OBL species x 1 = 0
1. <u>N/A</u>				FACW species 20 x 2 = 40
2				FAC species 10 x 3 = 30
3.				FACU species
4.				UPL species0 x 5 =0
5				Column Totals:100 (A)350 (B)
				2.50
6		- Total Cav		Prevalence Index = B/A =3.50
5000 -51-1-1	8 0	= Total Cov		Hydrophytic Vegetation Indicators:
50% of total cover: 0	20% of	total cover:		1 - Rapid Test for Hydrophytic Vegetation
Shrub Stratum (Plot size: 30 ft)				2 - Dominance Test is >50%
1. <u>N/A</u>				3 - Prevalence Index is ≤3.01
2				Problematic Hydrophytic Vegetation ¹ (Explain)
3				
4				¹ Indicators of hydric soil and wetland hydrology must
5				be present, unless disturbed or problematic.
6.				Definitions of Five Vegetation Strata:
		= Total Cov	er	
50% of total cover: 0				Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in.
Herb Stratum (Plot size: 5 ft)	2070 01	total cover.		(7.6 cm) or larger in diameter at breast height (DBH).
1. Lolium perenne, Perennial Rye Grass	65	Vac	FΔCII	0 - 12 - 12 - 12 - 12 - 12 - 12 - 12 - 1
2. Ranunculus abortivus, Kidney-Leaf Buttercup			FACW	Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less
			FACU	than 3 in. (7.6 cm) DBH.
3. Plantago lanceolata, English Plantain				Chrish Mondy plants avaluating wondy vines
4. Rumex crispus, Curly Dock				Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.
5. Thunbergia erecta, Bush Clockvine	5	<u>No</u>	<u>FAC</u>	
6				Herb – All herbaceous (non-woody) plants, including
7				herbaceous vines, regardless of size, <u>and</u> woody plants, except woody vines, less than approximately
8				3 ft (1 m) in height.
9				Mondy sine All woods since regardless of height
10				Woody vine – All woody vines, regardless of height.
11				
		= Total Cov	er	
50% of total cover: 50				
Woody Vine Stratum (Plot size: 30 ft)		00,01.		
1. N/A				
2.				
3				
4				
5				Hydrophytic
	:	= Total Cov	er	Vegetation No. 7
		SE TO 15	_	Present? Yes No X
50% of total cover: 0	20% of	total cover:	0	

SOIL Sampling Point: RD_W_006_UP

(inches)	Matrix		Redo	x Features	6		the absence			
	Color (moist)	%	Color (moist)	%	_Type ¹	Loc ²	Texture		Remarks	
0-8	10YR 5/2	100%		- V <u>-</u>			Silty loam	to Sandy	1	
	2 %	<u> </u>			·	0				
				- 4						11 11 11
	8 9	. — -								
	()								11	
		. — —								
	Concentration, D=Dep					ains.			ining, M=Matri	
6.00 0	Indicators: (Applic	able to all L							matic Hydric \$	Solls":
Histoso			Polyvalue Be				50	/luck (A9) (I		
	Epipedon (A2) Histic (A3)		Thin Dark Su Loamy Muck					Muck (A10)	(LKK S) 18) (outside N	/I RΔ 150Δ F
// // / / / / / / / / / / / / / / / /	en Sulfide (A4)		Loamy Gleye			٠,			ain Soils (F19)	
	ed Layers (A5)		Depleted Ma						Loamy Soils (I	
Organic	Bodies (A6) (LRR P	, T, U)	Redox Dark	Surface (F	6)		(ML	RA 153B)		
Manager of occ	ucky Mineral (A7) (LI	20 SE SESS ES	Depleted Da					arent Mater		
	resence (A8) (LRR L)	Redox Depre		3)				k Surface (TF1	2)
	uck (A9) (LRR P, T) ed Below Dark Surfac	e (Δ11)	Marl (F10) (L Depleted Oc		MIRA 14	54.)	Other	(Explain in	Remarks)	
	ark Surface (A12)	C (A11)	Iron-Mangan	CONTRACTOR OF THE STATE			T) ³ Indio	ators of hyd	drophytic veget	ation and
	Prairie Redox (A16) (I	VILRA 150A)				850 %	·		ogy must be pr	
7.00.000 man 1 = 100.000	Mucky Mineral (S1) (I	RR O, S)	Delta Ochric	NAME OF TAXABLE PARTY.			unl	ess disturbe	ed or problema	tic.
	Gleyed Matrix (S4)		Reduced Ver							
	Redox (S5)		Piedmont Flo					452D\		
	d Matrix (S6) urface (S7) (LRR P, \$	S T 11)	Anomalous E	Bright Loar	ny Solis (i	-20) (IVILK	A 149A, 153C	, 1530)		
	Layer (if observed):						Ī			
Type: G										
							Hydric Soil	Present?	Yes	No x
Depth (ir	nches): 8									
8 8	nches): <u>8</u>									
Remarks:	gravel layer preven	ting evaluat	ion of full soil pro	ofile (20 in	ches).		- US			
Remarks:	15. 16	ting evaluat	ion of full soil pro	ofile (20 in	ches).		- 100			
Remarks:	15. 16	ting evaluat	ion of full soil pro	ofile (20 in	ches).					
Remarks:	15. 16	ting evaluat	ion of full soil pro	ofile (20 in	ches).					
Remarks:	15. 16	ting evaluat	ion of full soil pro	ofile (20 in	ches).					
Remarks:	15. 16	ting evaluat	ion of full soil pro	ofile (20 in	ches).					
Remarks:	15. 16	ting evaluat	ion of full soil pro	ofile (20 in	ches).					
emarks:	15. 16	ting evaluat	ion of full soil pro	ofile (20 in	ches).					
emarks:	15. 16	ting evaluat	ion of full soil pro	ofile (20 in	ches).					
Remarks:	15. 16	ting evaluat	ion of full soil pro	ofile (20 in	ches).					
emarks:	15. 16	ting evaluat	ion of full soil pro	ofile (20 in	ches).					
emarks:	15. 16	ting evaluat	ion of full soil pro	ofile (20 in	ches).					
Remarks:	15. 16	ting evaluat	ion of full soil pro	ofile (20 in	ches).					
Remarks:	15. 16	ting evaluat	ion of full soil pro	ofile (20 in	ches).					
Remarks:	15. 16	ting evaluat	ion of full soil pro	ofile (20 in	ches).					
Remarks:	15. 16	ting evaluat	ion of full soil pro	ofile (20 in	ches).					
Remarks:	15. 16	ting evaluat	ion of full soil pro	ofile (20 in	ches).					
Remarks:	15. 16	ting evaluat	ion of full soil pro	ofile (20 in	ches).					
Remarks:	15. 16	ting evaluat	ion of full soil pro	ofile (20 in	ches).					
emarks:	15. 16	ting evaluat	ion of full soil pro	ofile (20 in	ches).					
emarks:	15. 16	ting evaluat	ion of full soil pro	ofile (20 in	ches).					

Date: (5/19/21
---------	---------

 $\begin{array}{ccc} \textbf{Feature Name:} & RD_W_006_UP \\ & RD_W_007_UP \end{array}$







Photograph Direction _____

Comments: View of soil core

Photograph Direction South

Comments:





Photograph Direction East

Comments:

Photograph Direction North

Photograph Log RD_W_006_UP Feature Name: RD_W_007_UP

Date: 5/19	/21	. Featu	re Name:	RD_W_006_UP RD_W_007_UP
Photograph	Direction West	Photograph	Direction	
Comments:		Comments:		
Photograph	Direction	Photograph		<u> </u>
Comments:		Comments:		

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region

Project/Site: Dominion CVOW	City/County: Virginia Beach,	/Virginia Beach	Sampling Date:	5/19/2021	
Applicant/Owner: Dominion		State: VA	Sampling Point: RI	D_W_007	
Investigator(s): R. Delahunty	Section, Township, Range:				
Landform (hillslope, terrace, etc.): Depression				(%): 2	
Subregion (LRR or MLRA): MLRA 153B of LRR T Lat:		21 0 10	75.6	8 S M	
Soil Map Unit Name: 38 - Tomotley loam				11. 47 030 1	
Are climatic / hydrologic conditions on the site typical for this time of y					
		5.7.		Na	
Are Vegetation, Soil, or Hydrology significantly				No	
Are Vegetation, Soil, or Hydrology naturally pr	roblematic? (If needed,	explain any answe	rs in Remarks.)		
SUMMARY OF FINDINGS - Attach site map showing	g sampling point locati	ions, transects	, important fea	tures, etc.	
Hudrophytic Vogatation Procent? Yes X No					
Hydrophytic Vegetation Present?	is the Sampled Area				
Wetland Hydrology Present? Yes x No	within a Wetland?	Yesx	No		
Remarks:			Observed Classifi	cations:	
This area was observed as an isolated depression, potentially ca	aused by the construction of	the gravel	Cowardin:		
access road through RD_W_006, sectioning off RD_W_007.	,	Ü	cowardin.		
HYDROLOGY					
Wetland Hydrology Indicators:		Secondary Indica	ators (minimum of tw	vo required)	
Primary Indicators (minimum of one is required; check all that apply)	p.	Surface Soil			
Surface Water (A1) Aquatic Fauna (B				ırface (B8)	
High Water Table (A2) Marl Deposits (B1		Sparsely Vegetated Concave Surface (B8)Drainage Patterns (B10)			
Saturation (A3) Hydrogen Sulfide		Moss Trim L			
	heres along Living Roots (C3)				
Sediment Deposits (B2) Presence of Redu		oots (C3) Dry-Season Water Table (C2) Crayfish Burrows (C8)			
	ction in Tilled Soils (C6)	Comment of the commen	isible on Aerial Imag	ery (C9)	
Algal Mat or Crust (B4) Thin Muck Surface		x Geomorphic		,,	
Iron Deposits (B5) Other (Explain in I		Shallow Aqu			
Inundation Visible on Aerial Imagery (B7)	,	× FAC-Neutral			
× Water-Stained Leaves (B9)			noss (D8) (LRR T, L	ا (ر	
Field Observations:			, ,, ,		
Surface Water Present? Yes No _x Depth (inches	s): N/A				
Water Table Present? Yes No _x Depth (inches					
Saturation Present? Yes No _x Depth (inches		Hydrology Preser	it? Yes x	No	
(includes capillary fringe)					
Describe Recorded Data (stream gauge, monitoring well, aerial photostream)	tos, previous inspections), if av	/ailable:			
Remarks:	ا. ا				
Microtopography was observed within the depressional wetlan	a.				
				1	
II.					

Tree Stratum (Plot size: 30 ft)

4		3 (1)		Percent of Domir That Are OBL, FA			100.0%	(A/B)
6	11 11			Prevalence Inde				(//0)
	10	_ = Total Co	ver	Total % Cov			ıltiply by:	
50% of total cover:5	_ 20% (of total cover	:2	OBL species				_
Sapling Stratum (Plot size: 15 ft)								
1. Fraxinus pennsylvanica, Green Ash	5	<u>Yes</u>	<u>FACW</u>	FACW species _				_
2		-6:		FAC species				
3		400		FACU species _				_
4				UPL species _				
5				Column Totals:	35	_ (A) _	80	_ (B)
6				Prevalence	Index = B/	A =	2.29	_
	5	_ = Total Co	ver	Hydrophytic Ve	getation Inc	dicators	:	
50% of total cover: 2.5	20%	of total cover	:1	1 - Rapid Te				
Shrub Stratum (Plot size: 30 ft)				x 2 - Dominan		2	75	
1. <u>N/A</u>				X 3 - Prevalence				
2				Problematic			ion¹ (Evola	in)
3		350-11-11-10			riyaropiryar	rogotat	ion (Explu	,
4.		-80		1Indicators of hyd	tric soil and	wetland	hydrology r	muet
5.		2001		be present, unles				Hust
6.				Definitions of Fi	ve Vegetat	ion Strat	ta:	
		= Total Cov	ver	100 000 000 000 W	=======================================			
50% of total cover: 0				Tree – Woody pla				3 in
Herb Stratum (Plot size: 5 ft)		or total oover		approximately 20 ft (6 m) or more in height and 3 i (7.6 cm) or larger in diameter at breast height (DB)				
1. Fraxinus pennsylvanica, Green Ash	5	Yes	FACW	W 81 10/				
Acer rubrum, Red Maple				— Japining Woody plants, excitating woody vines,				
				than 3 in. (7.6 cm) DBH.				
				Shrub Woody	planta avalu	ıdina wa	advivinas	
4. Phragmites australis, Common Reed		74/	<u>FACW</u>	Shrub – Woody approximately 3 t				
5			-		-		v v	122
6				Herb - All herbachers vines				
7				plants, except wo	and the second s	Mariana and Mariana and and		500 00
8				3 ft (1 m) in heigh	nt.			
9			-	Woody vine - Al	II woodv vin	es. regar	dless of he	iaht.
			-			, 3		
11								
	20	_ = Total Co	ver					
50% of total cover:10	_ 20% d	of total cover	:4					
Woody Vine Stratum (Plot size: 30 ft)								
1. <u>N/A</u>								
2								
3								
4								
5				Hydrophytic				
	0	_ = Total Co	ver	Vegetation				
50% of total cover: 0	1715 N. H. A. A. S.	Section in the sec		Present?	Yes	<u> </u>	°	
Remarks: (If observed, list morphological adaptations below	7.							
Tromains. (II observed, list morphological adaptations below	<i>)</i> ·							
10.4	11			AU	WO	N-1- D		

SolL Sampling Point: RD_W_007

Depth	cription: (Describe Matrix	to the depti		x Feature:		or commi	ii tile absence or	mulcators.)
(inches)	Color (moist)	%	Color (moist)	<u>%</u>	Type ¹	Loc ²	Texture	Remarks
0-8	10YR 4/2	100%		100	198		Sandy clay loam	
8-20	10YR 5/1	70%	LOYR 4/6	30%	С	PL	Clay	
								-
7P.	•							
<u> </u>				-		W.		
		. —— -						
2			ı aı ay aı			3		
12:				.00				
Type: C=C	Concentration, D=Dep	letion, RM=I	Reduced Matrix, MS	S=Masked	Sand Gr	ains.	² Location: PL	=Pore Lining, M=Matrix.
Hydric Soil	Indicators: (Applic	able to all L	RRs, unless other	rwise note	ed.)		Indicators for	Problematic Hydric Soils ³ :
Histoso	l (A1)		Polyvalue Be	low Surfa	ce (S8) (L	RR S, T, I	U) 1 cm Muc	k (A9) (LRR O)
	pipedon (A2)		Thin Dark Su					k (A10) (LRR S)
A MANAGEMENT AND A PARTY OF A PAR	listic (A3)		Loamy Muck		term to the second second	O)		Vertic (F18) (outside MLRA 150A,B)
	en Sulfide (A4) ed Layers (A5)		Loamy Gleye X Depleted Ma	a sa managana Africa	F2)		C	Floodplain Soils (F19) (LRR P, S, T) us Bright Loamy Soils (F20)
97	Bodies (A6) (LRR P	. T. U)	Redox Dark		6)		(MLRA	
	ucky Mineral (A7) (LI		Depleted Dai				7 CONT 17. CONT.	nt Material (TF2)
A STATE OF THE STA	resence (A8) (LRR L	A	Redox Depre	essions (F	8)		Very Shal	low Dark Surface (TF12)
1 cm M	uck (A9) (LRR P, T)		Marl (F10) (L	.RR U)			Other (Ex	plain in Remarks)
	ed Below Dark Surfac	e (A11)	Depleted Ocl	CONTRACTOR OF THE OWNER.			_ 9	
- 17	oark Surface (A12) Prairie Redox (A16) (I	MI DA 450A	Iron-Mangan Umbric Surfa			1	W 6	ors of hydrophytic vegetation and dhydrology must be present,
	Mucky Mineral (S1) (Delta Ochric			, 0)		disturbed or problematic.
Mc observation of the contract	Gleyed Matrix (S4)	-i.i. o, o,	Reduced Ver	The second second		0A, 150B		alotal boa of problematic.
41 (74	Redox (S5)		Piedmont Flo					
Strippe	d Matrix (S6)		Anomalous E	Bright Loar	ny Soils (F20) (MLF	RA 149A, 153C, 15	53 D)
V 2014 100000 - 01	urface (S7) (LRR P,							
	Layer (if observed)							
Type: No							Service of the servic	500mil 65000 v 950
	nches): N/A						Hydric Soil Pre	esent? Yes No
Remarks:								

Date: 5/19/21

Feature Name: RD_W_007



Photograph Number 1
Photograph Direction West

Comments:



Photograph Number 2
Photograph Direction South

Comments:



Photograph Number 3
Photograph Direction North

Comments:



Photograph Number 4
Photograph Direction East

Photograph Log

Date:	Feature Name: RD_W_007
Photograph Number5	Photograph Number 6
Photograph Direction	Photograph Direction
Comments: View of soil core	Comments:
Photograph Number7 Photograph Direction	Photograph Number 8 Photograph Direction
Comments:	Comments:

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: Dominion CVOW	!		city/County: Virgin	nia Beach/\	Virginia Beach	Sampling Date:	5/19/2021
Applicant/Owner: Dominion					State: VA	Sampling Point: R	D_W_008
Investigator(s): R. Delahunty		5	Section, Township	, Range:			
Landform (hillslope, terrace, etc							(%): 1
Subregion (LRR or MLRA): ML	NO. 75.				0.00	75.4	B S N
Soil Map Unit Name: 38 - Tomoth		Lat					III. <u>VV G364</u>
Are climatic / hydrologic conditi							
Are Vegetation, Soil	**						No
Are Vegetation, Soil					explain any answe		
SUMMARY OF FINDING				***************************************			itures, etc.
		<u> </u>				•	
Hydrophytic Vegetation Prese		No	Is the Sam	pled Area			
Hydric Soil Present? Wetland Hydrology Present?		No	within a W	etland?	Yesx	No	
Remarks:	163					Observed Classif	
Data point was taken within	an existing overhe	ad utility easemen	t			Observed Classif	ications:
Data point was taken within	an existing overne	ad definely casefficin				Cowardin: <u>PEM</u>	
HYDROLOGY							
Wetland Hydrology Indicato					Secondary India	ators (minimum of ty	vo required)
		and all that annual o				-	vo requirea)
Primary Indicators (minimum					Surface Soil		-f (D0)
Surface Water (A1)		Aquatic Fauna (B13)				getated Concave Su	Irrace (B8)
High Water Table (A2) Saturation (A3)		Marl Deposits (B15) Hydrogen Sulfide Oo			Drainage Pa Moss Trim L		
Water Marks (B1)		Oxidized Rhizosphe		Poots (C3)	. Of the control of t	Water Table (C2)	
Sediment Deposits (B2)		Presence of Reduce		(0015 (03)	Crayfish Bur		
Drift Deposits (B3)		Recent Iron Reduction		(C6)	Water and the second se	isible on Aerial Imag	nery (C9)
Algal Mat or Crust (B4)		Thin Muck Surface ((00)	x Geomorphic		jery (00)
Iron Deposits (B5)		Other (Explain in Re			Shallow Aqu		
Inundation Visible on Aer	N	other (Explain in the	markoy		× FAC-Neutral		
Water-Stained Leaves (B						noss (D8) (LRR T, U	ا م
Field Observations:						, (=0, (=1)	.,
Surface Water Present?	Yes No	Depth (inches):					
Water Table Present?		Depth (inches):					
Saturation Present?		Depth (inches):		Wetland I	Hydrology Prese	nt? Yes_x_	No
(includes capillary fringe)						103	
Describe Recorded Data (stre	am gauge, monitorin	g well, aerial photos	, previous inspec	tions), if ava	ailable:		
Remarks:							
An ephemeral stream was o	bserved adjoining t	his wetland.					
ļ							

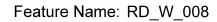
VEGETATION	(Five Strata)	 Use scientific 	names of plants
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VEGETATION (Five Strata) – Use scientific nar	nes of pla	ants.		Sampling Point: RD W 008
		Dominant		Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size: <u>30 ft</u>) 1. <u>N/A</u>		Species?	10-1-1	Number of Dominant Species That Are OBL, FACW, or FAC:1(A)
2				- ASSESSED
3.				Total Number of Dominant Species Across All Strata:1 (B)
4.				Sposios / Gloss / Gloss and Gloss (B)
5				Percent of Dominant Species
6				That Are OBL, FACW, or FAC: 100.0% (A/B)
	0 :	- Total Cov		Prevalence Index worksheet:
50% of total cover:0				Total % Cover of: Multiply by:
Sapling Stratum (Plot size: 30 ft)	20 70 01	total cover.		OBL species 50 x 1 = 50
				FACW species30 x 2 =60
1. <u>N/A</u>				FAC species0 x 3 =0
2				FACU species 0 x 4 = 0
3				UPL species0 x 5 =0
4				Column Totals: <u>80</u> (A) <u>110</u> (B)
5				(5)
6				Prevalence Index = B/A =1.38
	8 0	= Total Cov		Hydrophytic Vegetation Indicators:
50% of total cover:0	20% of	total cover:	0	x 1 - Rapid Test for Hydrophytic Vegetation
Shrub Stratum (Plot size: 30 ft)				X 2 - Dominance Test is >50%
1. <u>N/A</u>				X 3 - Prevalence Index is ≤3.01
2				Problematic Hydrophytic Vegetation¹ (Explain)
3.				
4				¹ Indicators of hydric soil and wetland hydrology must
5				be present, unless disturbed or problematic.
6.				Definitions of Five Vegetation Strata:
"		= Total Cov		
50% of total cover: 0				Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in.
Herb Stratum (Plot size: 5 ft)				(7.6 cm) or larger in diameter at breast height (DBH).
1. Juncus effusus, Lamp Rush	50	Yes	OBI	Conline Mandy plants avaluding woods wines
Carex scoparia, Pointed Broom Sedge				Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less
Carex vulpinoidea, Common Fox Sedge				than 3 in. (7.6 cm) DBH.
Carex vulphioldea, Common Fox Sedge Carex crinita, Fringed Sedge				Shrub – Woody plants, excluding woody vines,
1				approximately 3 to 20 ft (1 to 6 m) in height.
5				
6				Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody
7			-	plants, except woody vines, less than approximately
8				3 ft (1 m) in height.
9				Woody vine – All woody vines, regardless of height.
10				l
11				
	80	= Total Cov	er	
50% of total cover: 40	20% of	total cover:	16	
Woody Vine Stratum (Plot size: 30 ft)				
1. <u>N/A</u>				
2				
3.				
4.				
5				Hydrophytic
WD.C.		= Total Cov		Hydrophytic Vegetation
50% of total cover: 0	100000000000000000000000000000000000000			Present? Yes x No
	72	total cover.		
Remarks: (If observed, list morphological adaptations belo	/vv).			

SOIL Sampling Point: RD_W_008

Profile Des	cription: (Describe t	o the depth n				or confirm	the absence	of indicators.)
Depth (inches)	Matrix Color (moist)	%	Redor Color (moist)	x Features	Type ¹	Loc ²	Texture	Remarks
0-20	10YR 5/1	As the same of the	′R 4/6	5%	C	M	Sandy clay	
-						-		
	-							
-	<u> </u>							
						-		
<u> </u>								
							-	
1							21	Di Boo Colon II II II
	oncentration, D=Depl Indicators: (Applica					ains.		PL=Pore Lining, M=Matrix. for Problematic Hydric Soils ³ :
Histoso			Polyvalue Be			RR S. T. U		luck (A9) (LRR O)
A STATE OF THE STA	pipedon (A2)	_	Thin Dark Su			25	97	fuck (A10) (LRR S)
Manager State Control of the	istic (A3)	-	Loamy Muck		en semien more	0)		ed Vertic (F18) (outside MLRA 150A,B)
	en Sulfide (A4)	-	Loamy Gleye Depleted Mail		F2)			ont Floodplain Soils (F19) (LRR P, S, T) llous Bright Loamy Soils (F20)
- 10	d Layers (A5) Bodies (A6) (LRR P,		Redox Dark		6)			RA 153B)
	ucky Mineral (A7) (LR		Depleted Dar				7. SACTOR 190	arent Material (TF2)
All III	resence (A8) (LRR U)	<u> </u>	_ Redox Depre		8)		THE RESERVE OF THE RE	hallow Dark Surface (TF12)
	uck (A9) (LRR P, T)	- (411)	Marl (F10) (L		/MI DA 44	E4 \	Other (Explain in Remarks)
	d Below Dark Surface ark Surface (A12)	(ATT) _	_ Depleted Och _ Iron-Mangan	STATES OF SECTION			T) ³ Indic	ators of hydrophytic vegetation and
	rairie Redox (A16) (M	ILRA 150A) _				1 STO 10	· ·	and hydrology must be present,
100.000710011-1702-1	Mucky Mineral (S1) (L	RR O, S) _	Delta Ochric	New Wilson Andrews			unle	ess disturbed or problematic.
- 47 Control (CTA)	Gleyed Matrix (S4) Redox (S5)	-	_ Reduced Ver _ Piedmont Flo	2022		A) 50	0.61	
1 to 1 to 1 to 1 to 1 to 1 to 1 to 1 to	Matrix (S6)	<u> </u>					9A) A 149A, 153C,	153D)
	rface (S7) (LRR P, S	, T, U)			.,	, (,,
Restrictive	Layer (if observed):							
Type: No			-					
8 9	ches): N/A		=				Hydric Soil	Present? Yes No
Remarks:								

Date: 5/19/21







Photograph Direction East

Comments:

Photograph Direction North

Comments:





Photograph Direction South

Comments:

Photograph Direction West

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region

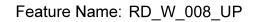
Project/Site: Dominion CVOW	City/County: Virgini	ia Beach	Sampling Date:5/19/2021		
Applicant/Owner: Dominion		State: VA	Sampling Point: RD W 008 UP		
Investigator(s): R. Delahunty	Section, Township,				
Landform (hillslope, terrace, etc.): Flat					
Subregion (LRR or MLRA): MLRA 153B of LRR T La	10 921	20 31 G In	75.5		
Soil Map Unit Name: 38 - Tomotley loam		NWI classific			
Are climatic / hydrologic conditions on the site typical for this					
Are Vegetation, Soil, or Hydrology sign	inificantly disturbed? A	re "Normal Circumstances"	present? Yes Nox_		
Are Vegetation, Soil, or Hydrology na	turally problematic? (I	f needed, explain any answe	ers in Remarks.)		
SUMMARY OF FINDINGS - Attach site map s	howing sampling poin	nt locations, transects	s, important features, etc.		
		,	,		
Hydrophytic Vegetation Present? Yes No	is the Sainp	oled Area			
Hydric Soil Present? Yesx No	within a vve	tland? Yes	No×		
Wetland Hydrology Present? Yes No	x				
Remarks:			Observed Classifications:		
Data point was taken within an existing overhead utility			Cowardin:		
vegetation. Soils meet the depleted matrix hydric indica		etland conditions;			
however, hydrology and vegetation do not meet the we	etiand criteria.				
HYDROLOGY					
Wetland Hydrology Indicators:		Secondary Indica	ators (minimum of two required)		
Primary Indicators (minimum of one is required; check all th	at apply)	Surface Soil	Cracks (B6)		
Surface Water (A1) Aquatic F	auna (B13)		getated Concave Surface (B8)		
	osits (B15) (LRR U)	Drainage Patterns (B10)			
	Sulfide Odor (C1)	Moss Trim Lines (B16)			
	Rhizospheres along Living Ro	The state of the s			
	of Reduced Iron (C4)	Crayfish Burrows (C8)			
	on Reduction in Tilled Soils (C	C6) Saturation V	isible on Aerial Imagery (C9)		
	k Surface (C7)	Geomorphic	Position (D2)		
Iron Deposits (B5) Other (Ex	plain in Remarks)	Shallow Aqu	uitard (D3)		
Inundation Visible on Aerial Imagery (B7)		FAC-Neutra	l Test (D5)		
Water-Stained Leaves (B9)		Sphagnum r	moss (D8) (LRR T, U)		
Field Observations:					
Surface Water Present? Yes Nox Dept	h (inches): N/A				
Water Table Present? Yes No _x Dept	h (inches): N/A				
Saturation Present? Yes No _x Dept	h (inches): N/A	Wetland Hydrology Preser	nt? Yes Nox		
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, as	orial photos, provious inspecti	one) if available:			
Describe Necorded Data (Stream gauge, monitoring well, as	and priotos, previous inspecti	ons), ii avallable.			
Remarks:					
Remarks.					
			1		

		Dominant		Dominance Test worksheet:		
Tree Stratum (Plot size: 30 ft) 1. N/A	% Cover	Species?	Status	Number of Dominant Species That Are OBL, FACW, or FAC:	0	(A)
3.				Total Number of Dominant Species Across All Strata:	3	(B)
4. 5.				Percent of Dominant Species That Are OBL, FACW, or FAC:	0.0%	(A/B)
6			-	Prevalence Index worksheet:		
	0	= Total Cov	er	Total % Cover of:	Multiply by:	
50% of total cover:0	20% of	f total cover	:0			
Sapling Stratum (Plot size: 30 ft)				OBL species 0 x		
1. <u>N/A</u>				FACW species 0 x	2000	
2				FAC species 15 x		_
3				FACU species 60 x		
4			<u> </u>	UPL species0 x		
5				Column Totals:75 (A)285	_ (B)
6				Prevalence Index = B/A =	3.80	_
_		= Total Co		Hydrophytic Vegetation Indica	tors:	
50% of total cover: 0	20% of	total cover	:0	1 - Rapid Test for Hydrophyt		
Shrub Stratum (Plot size: 30 ft)				2 - Dominance Test is >50%	i	
1. <u>N/A</u>				3 - Prevalence Index is ≤3.0	Ĭ	
2				Problematic Hydrophytic Ve	getation¹ (Expla	in)
3		80				
4				¹ Indicators of hydric soil and wetl	and hydrology r	nust
5				be present, unless disturbed or p	roblematic.	
6				Definitions of Five Vegetation	Strata:	
	0	= Total Cov	ver	Tree – Woody plants, excluding	woody vines	
50% of total cover: 0	20% of	f total cover	0	approximately 20 ft (6 m) or more		3 in.
Herb Stratum (Plot size: 30 ft)				(7.6 cm) or larger in diameter at I	oreast height (D	BH).
1. Parthenocissus quinquefolia, Virginia-Creeper	15	Yes	<u>FACU</u>	Sapling - Woody plants, excludi	na woody vines	
2. Lonicera japonica, Japanese Honeysuckle	15	<u>Yes</u>	<u>FACU</u>	approximately 20 ft (6 m) or more		
3. Achillea millefolium, Common Yarrow	15	<u>Yes</u>	FACU	than 3 in. (7.6 cm) DBH.		
4. <u>Digitaria sanguinalis, Hairy Crab Grass</u>	4.0		<u>FACU</u>	Shrub - Woody plants, excluding		
5. Solidago rugosa, Wrinkle-Leaf Goldenrod			<u>FAC</u>	approximately 3 to 20 ft (1 to 6 m	ı) in height.	
6. <u>Dactylis glomerata</u> , Orchard Grass			<u>FACU</u>	Herb - All herbaceous (non-woo	dy) plants, inclu	ding
7. Rubus argutus, Saw-Tooth Blackberry				herbaceous vines, regardless of		
8.				plants, except woody vines, less 3 ft (1 m) in height.	than approxima	tely
9.						
10			ES 25	Woody vine - All woody vines, r	egardless of he	ight.
11.						
···	70	= Total Cov	er			
50% of total cover: 37.5						
Woody Vine Stratum (Plot size: 30 ft)						
1. N/A						
2						
100						
3						
4						
5		= Total Cov		Hydrophytic Vegetation		
5000 -41-1-1				Present? Yes	Nox	
50% of total cover:0	72.	total cover	. <u> </u>	e apultativa testinati	v 07780.	
Remarks: (If observed, list morphological adaptations belo	w).					

SOIL Sampling Point: RD_W_008_UP

Profile Des	cription: (Describe	to the depth	needed to docui	ment the i	ndicator	or confirm	the absence	of indicators.)		
Depth	Matrix			x Features						
(inches)	Color (moist)		Color (moist)	%	Type ¹	Loc ²	<u>Texture</u>	F	Remarks	
0-20	10YR 4/2	95% 10	YR 5/6	5%		PL_	Silty clay loam			
100	16.				·	005				
	Y <u>1</u>									
*************************************	\$					-			11	
2.1=	·					202			<u> </u>	
¹Tyne: C=C	oncentration, D=Dep	letion RM=Re	educed Matrix M	S=Masked	Sand Gr	ains	² Location:	PL=Pore Lining	M=Matrix	
	Indicators: (Applic							for Problemati		
Histosol			Polyvalue Be			RRSTU		luck (A9) (LRR	-300	
	pipedon (A2)	3	Thin Dark Su				50 	luck (A10) (LRR		
	istic (A3)	,	Loamy Muck					ed Vertic (F18) (LRA 150A,B)
Hydroge	en Sulfide (A4)		Loamy Gleye					ont Floodplain S		
Stratifie	d Layers (A5)		x Depleted Ma	trix (F3)			Anoma	lous Bright Loar	my Soils (F	20)
0.0000000000000000000000000000000000000	Bodies (A6) (LRR P	es loves sometimes	Redox Dark				(MLF	RA 153B)		
America ya con	icky Mineral (A7) (LF		Depleted Da				ADDAM ADDAM	arent Material (T	and the same of th	
- W	esence (A8) (LRR U)	Redox Depre		3)		-	hallow Dark Sur	,)
	JCK (A9) (LRR P, T)	- (014)	Marl (F10) (L		(BAL D.A.4)	54)	Other (Explain in Rema	arks)	
A STATE OF THE STA	d Below Dark Surfac ark Surface (A12)	e (ATT)	Depleted Oc Iron-Mangan	continued to state			T) ³ Indic	ators of hydroph	vitic vegeta	tion and
	rairie Redox (A16) (N	ALRA 150A)	Umbric Surfa			3 1850 N		and hydrology r	150	
	lucky Mineral (S1) (I		Delta Ochric			, 0,		ess disturbed or		
725.000 PERSON NO.	Sleyed Matrix (S4)	TOTO TOTO STORE	Reduced Ve	Marie Marie		0A, 150B)				
Sandy F	Redox (S5)		Piedmont Flo							
Stripped	Matrix (S6)	i	Anomalous I	Bright Loan	ny Soils (F20) (MLR	A 149A, 153C,	153D)		
	rface (S7) (LRR P, S	HELICATE CATAN								
I .	Layer (if observed):									
Туре: <u>N/</u>	A									
Depth (in	ches): None		_				Hydric Soil	Present? Ye	s	No
Remarks:										

Date: 5/19/21







Photograph Direction East

Comments:

Photograph Direction West

Comments:





Photograph Direction South

Comments:

Photograph Direction North

Photograph Log

Date: 5/19/21	Feature Name: RD_W_008_UP
Photograph Direction	Photograph Direction
Comments: View of soil core	Comments:
Photograph Direction	Photograph Direction
Comments:	Comments:

5/19/21

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: Dominion CVOW		City/County: Virginia	a Beach/Virginia Beach	Sampling Date:	5/20/2021	
Applicant/Owner: Dominion			State: VA	Sampling Point: R	.D_W_009	
Investigator(s): R. Delahunty		Section, Township, I	Range:			
Landform (hillslope, terrace, etc.): De					(%): 1	
Subregion (LRR or MLRA): MLRA 153			00 37 6 36	75.4	& S M	
Soil Map Unit Name: 1 - Acredale silt loa					III. <u>VV C30-</u>	
Are climatic / hydrologic conditions or						
Are Vegetation, Soil,					No	
Are Vegetation, Soil,	or Hydrology naturally pr	oblematic? (If	needed, explain any answe	ers in Remarks.)		
SUMMARY OF FINDINGS -					atures, etc.	
Hydrophytic Vegetation Present? Hydric Soil Present?	Yesx No	is the sample	ed Area			
Wetland Hydrology Present?	Yes x No Yes x No	within a Wet	land? Yesx	No		
Remarks:	16510			Observed Classif	fications.	
Data point was taken within an ex	xisting overhead utility easeme	ant		Observed Classif		
Data point was taken within an ex	vising overhead dunity caseme			Cowardin: <u>PEM</u>		
HYDROLOGY						
Wetland Hydrology Indicators:			Secondary Indica	ators (minimum of ty	wo required)	
1.5	: i dblII 4b -4 b .				vo requirea)	
Primary Indicators (minimum of one			X_ Surface Soil		(00)	
Surface Water (A1)	Aquatic Fauna (B1			getated Concave S	urface (B8)	
High Water Table (A2)	Marl Deposits (B1		Drainage Pa			
Saturation (A3)	Hydrogen Sulfide		Moss Trim L			
Water Marks (B1)			along Living Roots (C3) Dry-Season Water Table (C2) on (C4) Crayfish Burrows (C8)			
Sediment Deposits (B2)	Presence of Redu				2051 (CO)	
Drift Deposits (B3) Algal Mat or Crust (B4)	Recent Iron Reduc			isible on Aerial Ima	gery (C9)	
Service of the property of the service of the servi	Thin Muck Surface			Position (D2)		
Iron Deposits (B5) Inundation Visible on Aerial Ima	Other (Explain in F	Remarks)	Shallow Aqu x FAC-Neutral	12-24-1-12-1-12-1-12-1-12-1-12-1-12-1-1		
× Water-Stained Leaves (B9)	agery (B7)		_	noss (D8) (LRR T, I	ın l	
Field Observations:			Spriagrium	11055 (D0) (LKK 1, 1	5)	
	No _x Depth (inches					
	No _x Depth (inches					
Saturation Present? Yes (includes capillary fringe)	No _x Depth (inches	s): '	Wetland Hydrology Preser	it? Yesx	No	
Describe Recorded Data (stream ga	auge, monitoring well, aerial phot	os, previous inspectio	ons), if available:			
Remarks:						
Saturation was observed at appro	oximately 16 inches. This wetla	nd is contiguous wit	th RD S 005.			
	•	· ·				
					1	

		Dominan		Dominance Test worksheet:	
Tree Stratum (Plot size: 30 ft) 1. N/A	(9)	Species'	34V1 8-11-11-11-11-11-11-11-11-11-11-11-11-11	Number of Dominant Species That Are OBL, FACW, or FAC: 4	(A)
2				Total Number of Dominant Species Across All Strata: 4	(B)
4 5				Percent of Dominant Species That Are OBL, FACW, or FAC:100.	.0% (A/B)
6				Prevalence Index worksheet:	
	0	= Total Co	ver	Total % Cover of: Multipli	y by
50% of total cover: 0	20% o	f total cove	r: <u> </u>		
Sapling Stratum (Plot size: 30 ft)				OBL species 45 x 1 =	
1. <u>N/A</u>		10		FACW species 50 x 2 =	
2				FAC species 5 x 3 =	
3				FACU species 0 x 4 =	
4				UPL species0 x 5 =	
5				Column Totals:(A)	<u>160</u> (B)
6.				Prevalence Index = B/A =1.	.60
190		= Total Co	ver	Hydrophytic Vegetation Indicators:	
50% of total cover: 0	20% o	of total cove	r: 0	1 - Rapid Test for Hydrophytic Veget	otion
Shrub Stratum (Plot size: 30 ft)					allon
1. <u>Iva annua, Annual Marsh-Elder</u>	5	Yes	FAC	x 2 - Dominance Test is >50% x 3 - Prevalence Index is ≤3.01	
Fraxinus pennsylvanica, Green Ash					
3				Problematic Hydrophytic Vegetation ¹	(Explain)
				1	
4				Indicators of hydric soil and wetland hydrobe present, unless disturbed or problema	
5				Definitions of Five Vegetation Strata:	iic.
6				Deminions of Five Vegetation Strata.	
500/ 51//		= Total Co		Tree - Woody plants, excluding woody vi	
50% of total cover:5	20% o	f total cove	r:2	approximately 20 ft (6 m) or more in height (7.6 cm) or larger in diameter at breast he	
Herb Stratum (Plot size: 30 ft)				(7.5 only or larger in diameter at breast ne	Agric (DDI I).
1. <u>Carex crinita, Fringed Sedge</u>			FACW	Sapling – Woody plants, excluding wood	
2. Juncus effusus, Lamp Rush			OBL_	approximately 20 ft (6 m) or more in height than 3 in. (7.6 cm) DBH.	nt and less
3. <u>Saururus cernuus, Lizard's-Tail</u>			OBL		121
Carex scoparia, Pointed Broom Sedge S.			FACW	Shrub – Woody plants, excluding woody approximately 3 to 20 ft (1 to 6 m) in heig	
6				Herb - All herbaceous (non-woody) plant	
7 8	47.			herbaceous vines, regardless of size, <u>and</u> plants, except woody vines, less than app 3 ft (1 m) in height.	
9					
10				Woody vine – All woody vines, regardles	is of height.
11.	8				
	90	= Total Co	ver		
50% of total cover: 45	No.				
Woody Vine Stratum (Plot size: 30 ft)					
1. <u>N/A</u>					
2					
3					
4.					
No. 100					
5		= Total Co		Hydrophytic Vegetation	
50% of total cover: 0				Present? Yes _ x No _	
Remarks: (If observed, list morphological adaptations belo	w).				

SolL Sampling Point: RD_W_009

Profile Des	cription: (Describe	to the dept	h needed to docun	nent the i	ndicator	or confirm	n the absence of i	ndicators.)	
Depth (inches)	Matrix Color (moist)	%		x Feature		Loc ²	Toyturo	Domorko	
(inches)		7/5	Color (moist)	<u>%</u>	Type ¹		Texture	Remarks	
0-8	10YR 3/2		10YR 4/6		<u> </u>	<u>M</u>	Sandy clay loam	<u> </u>	
8-20	7.5YR 4/1	98%	7.5YR 4/6	2%		M	Sandy clay		
30.	n a					V			
20:	5 A								
<u> </u>					-)			*
	3		11 =1 =1 =1						
4					—		2		
	Concentration, D=Dep Indicators: (Applic					ains.	Location: PL:	=Pore Lining, M=Matrix Problematic Hydric S	collo ³ :
		able to all L				DD C T I			ons .
Histoso	pipedon (A2)		Polyvalue Be Thin Dark Su				4597	(A9) (LRR O) (A10) (LRR S)	
	listic (A3)		Loamy Muck					Vertic (F18) (outside M	LRA 150A,B)
// / / / / / / / / / / / / / / / / / /	en Sulfide (A4)		Loamy Gleye					Floodplain Soils (F19)	
Stratifie	d Layers (A5)		x Depleted Mat	trix (F3)			Anomalous	s Bright Loamy Soils (F	20)
0.0000000000000000000000000000000000000	Bodies (A6) (LRR P	eo lore.	Redox Dark				(MLRA 1	29.000 (1000 F)	
A	ucky Mineral (A7) (LI	NO. 20 104.0 EX	Depleted Dar				Approved some some	nt Material (TF2)	
All Victorian Control	resence (A8) (LRR L uck (A9) (LRR P, T))	Redox Depre Marl (F10) (L		8)			ow Dark Surface (TF12 Dain in Remarks)	2)
	d Below Dark Surfac	e (A11)	Depleted Oct		(MLRA 1	51)	Other (Exp	Jani III (Ciliaiks)	
	ark Surface (A12)	- (,	Iron-Mangan	STATES OF THE			T) ³ Indicator	rs of hydrophytic vegeta	ation and
Coast F	Prairie Redox (A16) (I	VILRA 150A) Umbric Surfa	ce (F13)	LRR P, T	, U)	wetland	d hydrology must be pre	esent,
And observed the first and the	Mucky Mineral (S1) (I	LRR O, S)	Delta Ochric	The second of the second				disturbed or problemati	c.
The second secon	Gleyed Matrix (S4)		Reduced Ver						
1	Redox (S5) d Matrix (S6)		Piedmont Flo				19A) RA 149A, 153C, 15	3D)	
	urface (S7) (LRR P, \$	S. T. U)	Anomalous E	night Loai	ily cons (20) (III E I	1437, 1330, 13	3 0 ,	
	Layer (if observed):	NITO COLENO SUCCESSION							
Type: No	one								
Depth (ir	nches): N/A						Hydric Soil Pre	sent? Yesx	No
Remarks:	8 ST								

Date: 5/20/21

Feature Name: RD_W_009



Photograph Number 1
Photograph Direction North

Comments:



Photograph Number 2
Photograph Direction East

Comments:



Photograph Number 3
Photograph Direction South

Comments:



Photograph Number <u>4</u>
Photograph Direction West

Photograph Log

Date:	Feature Name: RD_W_009
Photograph Number5	Photograph Number <u>6</u>
Photograph Direction	Photograph Direction
Comments: View of soil core	Comments:
Photograph Number7	Photograph Number <u>8</u>
Photograph Direction	Photograph Direction
Comments:	Comments:

RD_W_009_UP RD_W_011_UP

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region

Project/Site: Dominion CVOV	V	City/County: Virginia Bead	ch/Virginia Beach	Sampling Date:5/20/2021
Applicant/Owner: Dominion			State: VA	Sampling Point: RD W 009 UP
Investigator(s): R. Delahunty		Section, Township, Range	e:	RD_W_011_UP
Landform (hillslope, terrace, et	tc.): Flat			
A A A	LRA 153B of LRR T Lat:		21 0 10	75.6
Soil Map Unit Name: 38 - Tomot			9NWI classific	
	tions on the site typical for this time of			
	, or Hydrology significan			
Are Vegetation, Soil	, or Hydrology naturally	problematic? (If needs	ed, explain any answe	ers in Remarks.)
SUMMARY OF FINDING	GS – Attach site map showi	ng sampling point loca	ations, transects	s, important features, etc.
Hydronbytic Vogotation Bros	ont? You No X			
Hydrophytic Vegetation President Hydric Soil Present?	ent? Yes Nox Yes Nox	is the bampied Ai		
Wetland Hydrology Present?		within a Wetland?	Yes	Nox
Remarks:		_		Observed Classifications:
	to a raised unimproved access roac	d and characterized by early	, successional	
vegetation.	.o a raisea ammprovea access roac	and characterized by earry	3466633101141	Cowardin:
LIVERGUAN				
HYDROLOGY				
Wetland Hydrology Indicate		6.79KT		ators (minimum of two required)
	of one is required; check all that appl		Surface Soil	DOMESTIC AND DESCRIPTION OF THE PROPERTY OF TH
Surface Water (A1)	Aquatic Fauna (getated Concave Surface (B8)
High Water Table (A2)	Marl Deposits (E			atterns (B10)
Saturation (A3)	Hydrogen Sulfid		Moss Trim L	
Water Marks (B1)		pheres along Living Roots (C		Water Table (C2)
Sediment Deposits (B2) Drift Deposits (B3)		fluction in Tilled Soils (C6)	Crayfish Bur	risible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Thin Muck Surfa			: Position (D2)
Iron Deposits (B5)	Other (Explain in	Fig. 4. Carlot M.	Shallow Aqu	
Inundation Visible on Ae		Tremarks)	FAC-Neutra	21 - N. 11 (17) (17)
Water-Stained Leaves (E				moss (D8) (LRR T, U)
Field Observations:				
Surface Water Present?	Yes No _x Depth (inch	es):		
Water Table Present?	Yes No _x Depth (inch			
Saturation Present?	Yes No _x Depth (inch		nd Hydrology Prese	nt? Yes No _x
(includes capillary fringe)				
Describe Recorded Data (str	eam gauge, monitoring well, aerial ph	otos, previous inspections), if	available:	
Remarks:	d			
No hydrology indicators ob	served.			
1				
II.				

VEGETATION	(Five Strata)	- Use	scientific	names	of plants
VEGETATION	(I IVE Otlata)	- 030	SUICITUITU	Harries	OI DIGITLS.

VEGETATION (Five Strata) – Use scientific nar	nes of pla	ants.		Sampling Point: RD_W_009_U
		Dominant		Dominance Test worksheet:
Tree Stratum (Plot size: 30 ft) 1. N/A		Species?	Alexander S	Number of Dominant Species That Are OBL, FACW, or FAC:0 (A)
2				Total Number of Dominant Species Across All Strata:1 (B)
4 5				Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)
6				MATERIAL REPORTS SECURITION FOR THE PROPERTY AND SECURITION FO
	0	= Total Cov	er	Prevalence Index worksheet:
50% of total cover: 0	20% of	total cover	0	Total % Cover of: Multiply by:
Sapling Stratum (Plot size: 30 ft)				OBL species 0 x 1 = 0
1. <u>N/A</u>				FACW species 0 x 2 = 0
2				FAC species 5 x 3 = 15
3				FACU species 15 x 4 = 60
4				UPL species
5				Column Totals:100 (A)475 (B)
6				Prevalence Index = B/A =4.75
	0	= Total Cov	er	Hydrophytic Vegetation Indicators:
50% of total cover:0	20% of	total cover	0	1 - Rapid Test for Hydrophytic Vegetation
Shrub Stratum (Plot size: 30 ft)				2 - Dominance Test is >50%
1. <u>N/A</u>				3 - Prevalence Index is ≤3.0¹
2				
3				
4				¹ Indicators of hydric soil and wetland hydrology must
5				be present, unless disturbed or problematic.
6				Definitions of Five Vegetation Strata:
	0	= Total Cov	er	Tree – Woody plants, excluding woody vines,
50% of total cover:0	20% of	total cover	0	approximately 20 ft (6 m) or more in height and 3 in.
Herb Stratum (Plot size: 30 ft)				(7.6 cm) or larger in diameter at breast height (DBH).
Apocynum androsaemifolium, Spreading Dogbane	80	Yes	UPL	Sapling – Woody plants, excluding woody vines,
2. Parthenocissus quinquefolia, Virginia-Creeper	10	No	FACU	approximately 20 ft (6 m) or more in height and less
3. Lolium perenne, Perennial Rye Grass			FACU	than 3 in. (7.6 cm) DBH.
4. Solidago rugosa, Wrinkle-Leaf Goldenrod	-	No	FAC	Shrub – Woody plants, excluding woody vines,
5.				approximately 3 to 20 ft (1 to 6 m) in height.
6.	1000			Herb – All herbaceous (non-woody) plants, including
7.				herbaceous vines, regardless of size, and woody
8.				plants, except woody vines, less than approximately 3 ft (1 m) in height.
9.				
10			ES 55	Woody vine – All woody vines, regardless of height.
11.				
		= Total Cov	er	
50% of total cover: 50	Annual Control of the			
Woody Vine Stratum (Plot size: 30 ft)		17171 1717		
1. <u>N/A</u>				
2. 3.				
4		U	(
5	0	- Total Oc		Hydrophytic Vegetation
500/ -\$1-1-1	***********	= Total Cov		Present? Yes No _x
50% of total cover: 0	7.	lotal cover	0	
Remarks: (If observed, list morphological adaptations belo	w).			

SOIL

Sampling Point: RD W 009 UP

Depth	Matrix		The state of the s	x Features		B
(inches)	Color (moist)		Color (moist)	<u>% Type¹ Loc²</u>	Texture	Remarks
0-6	10YR 4/2	100%			Silty loam	
	*					
	40					
	W					
	*************************************			·		
	·				_	15 15 15 15 15 15 1
	12					
Type: C=C	oncentration D=Der	oletion RM=Red	luced Matrix MS	S=Masked Sand Grains.	2l ocation: Pl :	=Pore Lining, M=Matrix.
	Indicators: (Applic				Indicators for	Problematic Hydric Soils ³ :
control of		abio to all Littl				
Histoso	. 2	-		low Surface (S8) (LRR S,	- 60 - 650	(A9) (LRR O)
	pipedon (A2)	_		rface (S9) (LRR S, T, U)		(A10) (LRR S)
Anna San Anna San San San San San San San San San	istic (A3)	<u></u>		y Mineral (F1) (LRR O)		/ertic (F18) (outside MLRA 150A,B
	en Sulfide (A4)	_		d Matrix (F2)		Floodplain Soils (F19) (LRR P, S, T)
	d Layers (A5)	_	_ Depleted Ma			s Bright Loamy Soils (F20)
	Bodies (A6) (LRR F		_ Redox Dark	NOCESCHOOL SECTION E	(MLRA 1	
Manager of the control	ucky Mineral (A7) (L	50 101 00 10	- N	k Surface (F7)	eacher state way	t Material (TF2)
- U	esence (A8) (LRR L	<i>'</i>) _	_ Redox Depre			ow Dark Surface (TF12)
	uck (A9) (LRR P, T)	_	_ Marl (F10) (L		Other (Exp	olain in Remarks)
	d Below Dark Surfac	e (A11)		nric (F11) (MLRA 151)		
	ark Surface (A12)	_	-	ese Masses (F12) (LRR O	0 0 0	s of hydrophytic vegetation and
Coast F	rairie Redox (A16) (I	MLRA 150A) _	Umbric Surfa	ce (F13) (LRR P, T, U)	wetland	l hydrology must be present,
Sandy I	Mucky Mineral (S1) (LRRO,S)	Delta Ochric	(F17) (MLRA 151)	unless	disturbed or problematic.
Sandy (Gleyed Matrix (S4)		Reduced Ver	tic (F18) (MLRA 150A, 15 0	0B)	
Sandy F	Redox (S5)	-	Piedmont Flo	odplain Soils (F19) (MLRA	149A)	
Stripped	Matrix (S6)		_ Anomalous E	Bright Loamy Soils (F20) (M	ILRA 149A, 153C, 15	3D)
Dark Su	rface (S7) (LRR P,	S, T, U)				
Restrictive	Layer (if observed)					
Type: Ra	ised access road					
Depth (in					Hydric Soil Pre	sent? Yes No x
9 9	unus).				,	
Remarks:						

Date: 5/20/21

Feature Name: RD_W_009 RD_W_011_UP





Photograph Direction West

Comments:

Photograph Direction East

Comments:





Photograph Direction South

Comments:

Photograph Direction North

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: Dominion CVOW	City/County: Virginia Beach	1	Sampling Date:	5/20/2021
Applicant/Owner: Dominion		State: VA	Sampling Point: RD	W_010
Investigator(s): R. Delahunty				
Landform (hillslope, terrace, etc.): Depression				%): 2
Subregion (LRR or MLRA): MLRA 153B of LRR T Lat:		27 0 10	70.0 0	5 10
Soil Map Unit Name: 1 - Acredale silt loam				1, 44 630+
Are climatic / hydrologic conditions on the site typical for this time of y		3 3		
Are Vegetation, Soil, or Hydrology significantly				_ No
Are Vegetation, Soil, or Hydrology naturally pr	roblematic? (If needed	d, explain any answe	rs in Remarks.)	
SUMMARY OF FINDINGS - Attach site map showing	g sampling point loca	tions, transects	, important feat	ures, etc.
Hudrophytic Vogatation Procent? Yes X No				
Hydrophytic Vegetation Present? Yes x	is the Sampled Are			
Wetland Hydrology Present? Yes X No	within a wenand?	Yesx	No	
Remarks:			Observed Classific	ations
Data point taken in right-of-way, located between forested wel	tland conditions and an upl	and	Cowardin:PEM	ations.
maintained lawn.	•		COWAIGIII. <u>I EIVI</u>	
HYDROLOGY				
Wetland Hydrology Indicators:		Secondary Indica	ators (minimum of two	required)
Primary Indicators (minimum of one is required; check all that apply)	p	Surface Soil		<i>y</i> required <i>y</i>
Surface Water (A1) Aquatic Fauna (B)			getated Concave Sur	face (B8)
High Water Table (A2) — Marl Deposits (B1		Drainage Pa		lace (Bo)
Saturation (A3) Hydrogen Sulfide		Moss Trim L		
	heres along Living Roots (C3		Water Table (C2)	
Sediment Deposits (B2) Presence of Redu		x Crayfish Bur		
	ction in Tilled Soils (C6)		isible on Aerial Image	ery (C9)
Algal Mat or Crust (B4) Thin Muck Surface			Position (D2)	
Iron Deposits (B5) Other (Explain in I		Shallow Aqu		
Inundation Visible on Aerial Imagery (B7)	**************************************	× FAC-Neutral	STATE STATE OF	
× Water-Stained Leaves (B9)		x Sphagnum r	moss (D8) (LRR T, U)	,
Field Observations:		30 3 76 WH		
Surface Water Present? Yes Nox Depth (inches	s):			
Water Table Present? Yes No _x _ Depth (inches	s):			
Saturation Present? Yes Nox Depth (inches	s): Wetland	d Hydrology Preser	nt? Yesx N	10
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photographics)	tos provious inspections) if s	wailable:		
Describe Necorded Data (Stream gauge, monitoring well, acrial prior	tos, previous inspections), ire	ivaliable.		
Remarks:				
Tromano.				

VEGETATION	(Five Strata) -	Use scientific names	of plants
VEGETATION	u ive ouatar –	OSE SCIENTIFIC HATTIES	OI DIGITLS

/EGETATION (Five Strata) – Use scientific nar	nes of pia	arits.		Sampling Point: RD W 010
20.6		Dominant		Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size: <u>30 ft</u>) 1. <u>N/A</u>		Species?		Number of Dominant Species 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		<u> </u>		That Are OBL, FACW, or FAC: 100.0% (A/B)
6				Bernel
	0	= Total Cov	er	Prevalence Index worksheet:
50% of total cover:0	20% of	total cover	0	
Sapling Stratum (Plot size: 30 ft)				FACW species 30 x 2 = 60
1. <u>N/A</u>) 		
2				FAC species 0 x 3 = 0
3				FACU species 0 x 4 = 0
4				UPL species 0 x 5 = 0
5				Column Totals:100 (A)130 (B)
6				Prevalence Index = B/A =1.30
	0	= Total Cov	er	Hydrophytic Vegetation Indicators:
50% of total cover:0	20% of	total cover:	0	x 1 - Rapid Test for Hydrophytic Vegetation
Shrub Stratum (Plot size: 30 ft)				X 2 - Dominance Test is >50%
1. <u>N/A</u>				X 3 - Prevalence Index is ≤3.01
2				Problematic Hydrophytic Vegetation¹ (Explain)
3				
4				¹ Indicators of hydric soil and wetland hydrology must
5				be present, unless disturbed or problematic.
6				Definitions of Five Vegetation Strata:
	0	= Total Cov	er	Tree – Woody plants, excluding woody vines,
50% of total cover:0	20% of	total cover:	0	approximately 20 ft (6 m) or more in height and 3 in.
Herb Stratum (Plot size: 30 ft)				(7.6 cm) or larger in diameter at breast height (DBH).
1. Eleocharis palustris, Common Spike-Rush	60	<u>Yes</u>	OBL_	Sapling – Woody plants, excluding woody vines,
2. <u>Carex crinita</u> , Fringed Sedge		<u>Yes</u>		approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.
3. Juncus effusus, Lamp Rush	10	No	OBL	than 3 iii. (7.0 diii) DBA.
4				Shrub – Woody plants, excluding woody vines,
5				approximately 3 to 20 ft (1 to 6 m) in height.
6		Y		Herb – All herbaceous (non-woody) plants, including
7				herbaceous vines, regardless of size, <u>and</u> woody plants, except woody vines, less than approximately
8				3 ft (1 m) in height.
9				Woody vine – All woody vines, regardless of height.
10				vvoody ville – All woody villes, regardless of fielgitt.
11				
	100	= Total Cov	er	
50% of total cover: 50	20% of	total cover:	20	
Woody Vine Stratum (Plot size: 30 ft)				
1. <u>N/A</u>				
2				
3				
4				
5.				Hydrophytic
		= Total Cov	er	Vegetation
	**************			Present? Yes x No
50% of total cover:0	20% of	total cover:	0	11030111.

SolL Sampling Point: RD_W_010

H. ASSESSED AND ADDRESSED AND ADDRESSED AND ADDRESSED AND ADDRESSED AND ADDRESSED AND ADDRESSED ADDRESSED AND ADDRESSED ADDRES	cription: (Describe	to the dept				or confirm	the absence of i	ndicators.)
Depth (inches)	Matrix Color (moist)	%	Redox Color (moist)	K Feature:	s _Type ¹ _	_Loc ²	Texture	Remarks
0-10	10YR 5/1		10YR 5/6	2%	C	PL	Sandy clay	Kemarks
*	 			-		(distribution of the control of the		
10-20	GLY 4/1	95%	10YR 5/4	5%	C	M	Clay	_
<u> </u>	<u> </u>							
8								<u>~</u>
X2:					××			
				M.R.				-
								-
1Tuno: C-C	Concentration, D=Dep	lotion DM-	Doduced Metrix MS	-Maakaa	- Cond Cr		21 postion: DI-	=Pore Lining, M=Matrix.
	Indicators: (Applic					allis.	Indicators for	Problematic Hydric Soils ³ :
Histoso		ubio to uii s	Polyvalue Be			RRSTII		
	pipedon (A2)		Thin Dark Su				SA	(A10) (LRR S)
	listic (A3)		Loamy Mucky					/ertic (F18) (outside MLRA 150A,B)
	en Sulfide (A4)		Loamy Gleye		(F2)			Floodplain Soils (F19) (LRR P, S, T)
V	d Layers (A5)		x Depleted Mat					s Bright Loamy Soils (F20)
0.0000000000000000000000000000000000000	Bodies (A6) (LRR P	eo como someon	Redox Dark S				(MLRA 1	70.400 (3000.00 ·
A	ucky Mineral (A7) (LF resence (A8) (LRR U	DE 1960 BY	Depleted Dar Redox Depre				Append committee	it Material (TF2) ow Dark Surface (TF12)
All Victorian Control	uck (A9) (LRR P, T)	,	Marl (F10) (L		0)			olain in Remarks)
	d Below Dark Surfac	e (A11)	Depleted Och		(MLRA 1	51)		,
I	ark Surface (A12)		Iron-Mangane	ese Mass	es (F12) (LRR O, P,	•	s of hydrophytic vegetation and
	Prairie Redox (A16) (N					, U)		I hydrology must be present,
And observed the first and the	Mucky Mineral (S1) (I Gleyed Matrix (S4)	LRR O, S)	Delta Ochric	the same of the same of		0A 460D)		disturbed or problematic.
The Control of the Co	Redox (S5)		Reduced Ver Piedmont Flo					
4	d Matrix (S6)						A 149A, 153C, 15	3D)
Dark St	urface (S7) (LRR P, S	S, T, U)						
I	Layer (if observed):							
Type: No								
Depth (ir	nches): N/A	11-12-11-					Hydric Soil Pre	sent? Yesx No
Remarks:								
1								

Date: 5/20/21

Feature Name: RD_W_010



Photograph Number 1
Photograph Direction East

Comments:



Photograph Number 2
Photograph Direction North

Comments:



Photograph Number 3
Photograph Direction West

Comments:



Photograph Number 4
Photograph Direction South

Photograph Log

Date: 5/20/21	Feature Name: RD_W_010
Photograph Number <u>5</u>	Photograph Number <u>6</u>
Photograph Direction	Photograph Direction
Comments: View of soil core	Comments:
Photograph Number7	Photograph Number <u>8</u>
Photograph Direction	Photograph Direction
Comments:	Comments:

5/20/21

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

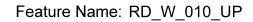
Project/Site: Dominion CVOW	l	City/County: Virgi	nia Beach/Virginia Beach	Sampling Date:5/20/2021
Applicant/Owner: Dominion			State: VA	Sampling Point: RD W 010 UP
Investigator(s): R. Delahunty		Section, Township	, Range:	
Landform (hillslope, terrace, etc				
A 5 0 0	180 7s	10 (21)	00 37 G. MT	-76.068884 Datum: WGS84
Soil Map Unit Name: 1 - Acredate			NWI classifi	
Are climatic / hydrologic conditi	5.5			
			Are "Normal Circumstances"	present? Yesx No
Are Vegetation, Soil	, or Hydrology nat	turally problematic?	(If needed, explain any answe	ers in Remarks.)
SUMMARY OF FINDING	S - Attach site map si	nowing sampling poi	nt locations, transects	s, important features, etc.
Hydrophytic Vegetation Prese			pled Area	
Hydric Soil Present?	Yes No		etland? Yes	No×
Wetland Hydrology Present? Remarks:	Yes No			
	naintained park lawn within a	residential neighborhoo	4	Observed Classifications:
Data point taken within a m	amtamea park lawn within t	residential neignbornoo	۵.	Cowardin:
HADBOLOCA				
HYDROLOGY				
Wetland Hydrology Indicato			-	ators (minimum of two required)
	of one is required; check all the			Cracks (B6)
Surface Water (A1)	Aquatic Fa			egetated Concave Surface (B8)
High Water Table (A2)		esits (B15) (LRR U)		atterns (B10)
Saturation (A3) Water Marks (B1)		Sulfide Odor (C1) Rhizospheres along Living F	Moss Trim I	Water Table (C2)
Sediment Deposits (B2)		of Reduced Iron (C4)	Crayfish Bu	CONTRACTOR CONTRACTOR CONTRACTOR
Drift Deposits (B3)		n Reduction in Tilled Soils	The second secon	/isible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Thin Muck			Position (D2)
Iron Deposits (B5)	0.77	plain in Remarks)	Shallow Aqu	
Inundation Visible on Aer	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	Control on the Control of the Contro	FAC-Neutra	ASS - PC L - 10 ACM / ACM - 1-200
Water-Stained Leaves (B	(9)		Sphagnum	moss (D8) (LRR T, U)
Field Observations:			, 100 2 N WW	
Surface Water Present?	Yes No _x Depti	n (inches):		
Water Table Present?	Yes No _x Depti	n (inches):		
Saturation Present?	Yes No _x Depth		Wetland Hydrology Prese	nt? Yes Nox
(includes capillary fringe)	eam gauge, monitoring well, ae	rial photos, previous inspec	tions) if available:	
Describe Resolucu Data (Sile	an gaage, montoring wen, ac	riai priotos, previous irispec	tions), ii available.	
Remarks:				
No hydrology indicators we	re ohserved			
Two my arology maleators we	re observed.			

		Dominant		Dominance Test worksheet:		
Tree Stratum (Plot size: 30 ft) 1. N/A	177	Species	WAS	Number of Dominant Species That Are OBL, FACW, or FAC:	0	(A)
3.				Total Number of Dominant Species Across All Strata:	1	(B)
4. 5.				Percent of Dominant Species That Are OBL, FACW, or FAC:	0.0%	(A/B)
6				Prevalence Index worksheet:		
	0	= Total Co	ver	Total % Cover of:	Multiply by	
50% of total cover:0	20% o	f total cove	r: <u> 0 </u>			
Sapling Stratum (Plot size: 30 ft)				OBL species 0 x		
1. <u>N/A</u>				FACW species 10 x	2000	_
2				FAC species x		
3				FACU species 55 x		
4.				UPL species5 x		
5.				Column Totals: 80 (A) 295	_ (B)
6				Prevalence Index = B/A =	3.69	_
		= Total Co		Hydrophytic Vegetation Indica	itors:	
50% of total cover: 0	20% o	f total cove	r:0	1 - Rapid Test for Hydrophyl	tic Vegetation	
Shrub Stratum (Plot size: 30 ft)				2 - Dominance Test is >50%	ó	
1. <u>N/A</u>				3 - Prevalence Index is ≤3.0) ¹	
2				Problematic Hydrophytic Ve	getation1 (Expla	in)
3						
4				Indicators of hydric soil and wet	land hydrology r	must
5				be present, unless disturbed or p		nast
6.				Definitions of Five Vegetation	Strata:	
		= Total Co		Tree – Woody plants, excluding	woodyvinos	
50% of total cover: 0	20% o	f total cove	r: <u>0</u>	approximately 20 ft (6 m) or more		3 in.
Herb Stratum (Plot size: 30 ft)				(7.6 cm) or larger in diameter at		
1. Cynodon dactylon, Bermuda Grass	55	Yes	_FACU_	Sapling – Woody plants, excludi	ing woody vines	
2. Ranunculus abortivus, Kidney-Leaf Buttercup			FACW	approximately 20 ft (6 m) or more		
3. Juncus tenuis, Lesser Poverty Rush			FAC	than 3 in. (7.6 cm) DBH.		
4. Oxalis stricta, Upright Yellow Wood-Sorrel	5	No	UPL	Shrub – Woody plants, excluding approximately 3 to 20 ft (1 to 6 m		
5 6				Herb – All herbaceous (non-woo	ody) plants, inclu	dina
7				herbaceous vines, regardless of plants, except woody vines, less	size, and woody	y
8				3 ft (1 m) in height.	шап арргохина	шегу
9				Woody vine - All woody vines, r	regardless of he	ight.
10						
11	80	= Total Co	ver			
50% of total cover: 40						
Woody Vine Stratum (Plot size: 30 ft)						
1. N/A						
2						
3						
4						
5				Hydrophytic		
		= Total Co		Vegetation Present? Yes	No ×	
50% of total cover: 0	= 22	f total cove	r:0		* ****	
Remarks: (If observed, list morphological adaptations belo	ow).					
I .						

Soll Sampling Point: RD W 10 UP

Profile Description: (Describe to the depth needed to document the indicator or confirm	n the absence of indicators.)
Depth Matrix Redox Features	
(inches) Color (moist) % Color (moist) % Type ¹ Loc ²	Texture Remarks
0-6 10YR 5/3 100%	Clay loam
	a difficult to see see see see see see
	· · · · · · · · · · · · · · · · · · ·
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.	² Location: PL=Pore Lining, M=Matrix.
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils ³ :
Histosol (A1) — Polyvalue Below Surface (S8) (LRR S, T, L	J) 1 cm Muck (A9) (LRR O)
Histic Epipedon (A2) Thin Dark Surface (S9) (LRR S, T, U)	2 cm Muck (A10) (LRR S)
Black Histic (A3) Loamy Mucky Mineral (F1) (LRR O)	Reduced Vertic (F18) (outside MLRA 150A,B)
Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2)	Piedmont Floodplain Soils (F19) (LRR P, S, T)
Stratified Layers (A5) Depleted Matrix (F3)	Anomalous Bright Loamy Soils (F20)
Organic Bodies (A6) (LRR P, T, U) Redox Dark Surface (F6)	(MLRA 153B)
5 cm Mucky Mineral (A7) (LRR P, T, U) Depleted Dark Surface (F7)	Red Parent Material (TF2)
Muck Presence (A8) (LRR U) Redox Depressions (F8)	Very Shallow Dark Surface (TF12)
1 cm Muck (A9) (LRR P, T) Marl (F10) (LRR U)	Other (Explain in Remarks)
Depleted Below Dark Surface (A11) Depleted Ochric (F11) (MLRA 151)	
Thick Dark Surface (A12) Iron-Manganese Masses (F12) (LRR O, P,	T) Indicators of hydrophytic vegetation and
Coast Prairie Redox (A16) (MLRA 150A) Umbric Surface (F13) (LRR P, T, U)	wetland hydrology must be present,
Sandy Mucky Mineral (S1) (LRR O, S) Delta Ochric (F17) (MLRA 151)	unless disturbed or problematic.
Sandy Gleyed Matrix (S4) Reduced Vertic (F18) (MLRA 150A, 150B)	#2.75 / 10.25 / FE 1994 10.75 / 10.75 10.
Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 14	
Stripped Matrix (S6) Anomalous Bright Loamy Soils (F20) (MLR	
	57 1457, 1666, 1666)
Dark Surface (S7) (LRR P, S, T, U)	1404, 1600, 1600,
Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (if observed):	1404, 1666, 1662)
Dark Surface (S7) (LRR P, S, T, U)	1404, 1666, 1662)
Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (if observed):	Hydric Soil Present? Yes Nox
Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (if observed): Type: Hard pack clay Depth (inches): 6	
Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (if observed): Type: Hard pack clay	
Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (if observed): Type: Hard pack clay Depth (inches): 6	
Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (if observed): Type: Hard pack clay Depth (inches): 6	
Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (if observed): Type: Hard pack clay Depth (inches): 6	
Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (if observed): Type: Hard pack clay Depth (inches): 6	
Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (if observed): Type: Hard pack clay Depth (inches): 6	
Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (if observed): Type: Hard pack clay Depth (inches): 6	
Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (if observed): Type: Hard pack clay Depth (inches): 6	
Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (if observed): Type: Hard pack clay Depth (inches): 6	
Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (if observed): Type: Hard pack clay Depth (inches): 6	
Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (if observed): Type: Hard pack clay Depth (inches): 6	
Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (if observed): Type: Hard pack clay Depth (inches): 6	
Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (if observed): Type: Hard pack clay Depth (inches): 6	
Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (if observed): Type: Hard pack clay Depth (inches): 6	
Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (if observed): Type: Hard pack clay Depth (inches): 6	
Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (if observed): Type: Hard pack clay Depth (inches): 6	
Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (if observed): Type: Hard pack clay Depth (inches): 6	
Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (if observed): Type: Hard pack clay Depth (inches): 6	
Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (if observed): Type: Hard pack clay Depth (inches): 6	
Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (if observed): Type: Hard pack clay Depth (inches): 6	
Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (if observed): Type: Hard pack clay Depth (inches): 6	
Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (if observed): Type: Hard pack clay Depth (inches): 6	
Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (if observed): Type: Hard pack clay Depth (inches): 6	
Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (if observed): Type: Hard pack clay Depth (inches): 6	
Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (if observed): Type: Hard pack clay Depth (inches): 6	
Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (if observed): Type: Hard pack clay Depth (inches): 6	
Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (if observed): Type: Hard pack clay Depth (inches): 6	

Date: 5/20/21







Photograph Direction North

Comments:

Photograph Direction _____

Comments: View of soil core





Photograph Direction South

Comments:

Photograph Direction East

Photograph Log

Date: 5/20/21	Feature Name: RD_W_010_UP
Photograph Direction West	Photograph Direction
Comments:	Comments:
Dhatagraph Direction	Photograph Direction
Photograph Direction Comments:	Photograph Direction Comments:

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: Dominion CVOW	City/County: Virginia Beach/Virginia Beach Sampling Date: 5/20/2021
Applicant/Owner: Dominion	State: <u>VA</u> Sampling Point: <u>RD_W_011</u>
Investigator(s): R. Delahunty	Section, Township, Range:
	Local relief (concave, convex, none): Concave Slope (%): 2
Subregion (LRR or MLRA): MLRA 153B of LRR T Lat:	
Soil Map Unit Name: 1 - Acredale silt loam	
Are climatic / hydrologic conditions on the site typical for this time of you	
	y disturbed? Are "Normal Circumstances" present? Yesx No
Are Vegetation, Soil, or Hydrology naturally pr	roblematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing	g sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yesx No	
Hydric Soil Present? Yesx No	is the Sampled Area
Wetland Hydrology Present? Yes x No	Within a Wetland / Yes ^ No
Remarks:	Observed Classifications:
	Cowardin: PFO
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	<u>x</u> Surface Soil Cracks (B6)
Surface Water (A1) Aquatic Fauna (B1	13) Sparsely Vegetated Concave Surface (B8)
High Water Table (A2) Marl Deposits (B1	
Saturation (A3) Hydrogen Sulfide	Odor (C1) Moss Trim Lines (B16)
Water Marks (B1) Oxidized Rhizosph	heres along Living Roots (C3) Dry-Season Water Table (C2)
Sediment Deposits (B2) Presence of Redu	iced Iron (C4) Crayfish Burrows (C8)
	ction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Thin Muck Surface	
Iron Deposits (B5) Other (Explain in F	_ , , ,
Inundation Visible on Aerial Imagery (B7)	X FAC-Neutral Test (D5)
Water-Stained Leaves (B9)	Sphagnum moss (D8) (LRR T, U)
Field Observations:	A
Surface Water Present? Yes No _x _ Depth (inches	l l
Water Table Present? Yes No _x Depth (inches	
Saturation Present? Yes No _x Depth (inches (includes capillary fringe)	s): Wetland Hydrology Present? Yes No
Describe Recorded Data (stream gauge, monitoring well, aerial phot	tos, previous inspections), if available:
Remarks:	

		Dominant		Dominance Test worksheet:
Tree Stratum (Plot size: 30 ft)		Species?		Number of Dominant Species
Acer rubrum, Red Maple	30	<u>Yes</u>	<u>FAC</u>	That Are OBL, FACW, or FAC:7 (A)
2. <u>Liquidambar styraciflua, Sweet-Gum</u>	15	Yes	FAC	Total Number of Dominant
3. Quercus michauxii, Swamp Chestnut Oak	15	Yes	FACW	Species Across All Strata:8 (B)
4. Carya ovata, Shag-Bark Hickory	15	<u>Yes</u>	FACU	
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 87.5% (A/B)
6.				That Ale OBE, FACW, of FAC.
o		= Total Cov	/er	Prevalence Index worksheet:
500% of total agrees 27.5				Total % Cover of: Multiply by:
50% of total cover: 37.5	20% 01	total cover		OBL species20 x 1 =20
Sapling Stratum (Plot size: 30 ft		.,		FACW species55 x 2 =110
1. <u>Carpinus caroliniana, American Hornbeam</u>			<u>FAC</u>	FAC species110 x 3 =330
2				FACU species15 x 4 =60
3				UPL species
4				
5				Column Totals:(A)(B)
6				Prevalence Index = B/A =2.60
		= Total Cov	/er	Hydrophytic Vegetation Indicators:
50% of total cover: 20	20% of	total cover	. 8	l e e e e e e e e e e e e e e e e e e e
Shrub Stratum (Plot size: 30 ft)	207001	total oover		1 - Rapid Test for Hydrophytic Vegetation
	10	Voc	FAC	2 - Dominance Test is >50%
1. Morella cerifera, Southern Bayberry				x 3 - Prevalence Index is ≤3.01
2			•	Problematic Hydrophytic Vegetation¹ (Explain)
3				
4				¹ Indicators of hydric soil and wetland hydrology must
5				be present, unless disturbed or problematic.
6				Definitions of Five Vegetation Strata:
	10	= Total Cov	/er	Tree – Woody plants, excluding woody vines,
50% of total cover:5	20% of	total cover	: 2	approximately 20 ft (6 m) or more in height and 3 in.
Herb Stratum (Plot size: 30 ft)	_			(7.6 cm) or larger in diameter at breast height (DBH).
Arundinaria tecta, Switch Cane	40	Yes	_FACW_	Souther Mondy plants evaluating woods vines
Carex lurida, Shallow Sedge	10	No		Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less
Ludwigia palustris, Marsh Primrose-Willow				than 3 in. (7.6 cm) DBH.
			UBL	Shouth Manda plants avaluating woods vince
4				Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.
5				
6				Herb – All herbaceous (non-woody) plants, including
7				herbaceous vines, regardless of size, <u>and</u> woody plants, except woody vines, less than approximately
8				3 ft (1 m) in height.
9				Manager Allerander and a second a second and
10				Woody vine – All woody vines, regardless of height.
11.				
	60	= Total Cov	 /er	
50% of total cover: 30				
Woody Vine Stratum (Plot size: 30 ft)	207001	total cover	·	
Smilax rotundifolia, Horsebrier	1 5	Voc	EAC	
		Yes		
2				
3				
4				
5				Hydrophytic
	15	= Total Cov	/er	Vegetation
50% of total cover: 7.5	20% of	total cover	:3	Present? Yes x No
Remarks: (If observed, list morphological adaptations below).				
	-			

Sampling Point: RD W 011

Soll Sampling Point: RD_W_011

Profile Des	cription: (Describe	to the dep	th needed to docur	ment the i	ndicator	or confirm	n the absence o	of indicators.)
Depth	Matrix			x Features				
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type'	Loc ²	<u>Texture</u>	Remarks
0-3	10YR 3/2	100%					Loam	
3-17	10YR 4/2	90%	10YR 4/6	10%	C	M	Sandy clay loam	
17-20	10YR 5/1	100%					Sandy clay loam	
1		 .						
	oncentration, D=Dep					ains.		PL=Pore Lining, M=Matrix. or Problematic Hydric Soils ³ :
Histoso		able to all	Polyvalue Be			DD C T I		uck (A9) (LRR O)
I —	pipedon (A2)		Polyvalue Be				· —	uck (A10) (LRR S)
	istic (A3)		Loamy Muck					d Vertic (F18) (outside MLRA 150A,B)
_	en Sulfide (A4)		Loamy Gleye	-		,		nt Floodplain Soils (F19) (LRR P, S, T)
ı —	d Layers (A5)		x Depleted Ma	. ,				ous Bright Loamy Soils (F20)
	Bodies (A6) (LRR F		Redox Dark	,	,		•	A 153B)
I —	ucky Mineral (A7) (L							rent Material (TF2)
ı —	resence (A8) (LRR l uck (A9) (LRR P, T)	,)	Redox Depre Marl (F10) (L		o)			allow Dark Surface (TF12) Explain in Remarks)
I —	d Below Dark Surfac	e (A11)	Depleted Oc	,	(MLRA 1	51)		explain in Hemaine)
I — ·	ark Surface (A12)	, ,	Iron-Mangan	, ,	•		, T) ³ Indica	tors of hydrophytic vegetation and
ı —	rairie Redox (A16) (· —			, U)		and hydrology must be present,
	Mucky Mineral (S1) (LRR O, S)	Delta Ochric			0.5 4500		ss disturbed or problematic.
	Gleyed Matrix (S4) Redox (S5)		Reduced Ver					
I —	d Matrix (S6)						RA 149A, 153C,	153D)
1 —	ırface (S7) (LRR P,	S, T, U)	_	-		, (,	,
Restrictive	Layer (if observed)	:						
Туре:								
Depth (in	ches):						Hydric Soil F	Present? Yesx No
Remarks:								

Date: 5/20/21

Feature Name: RD_W_011





Photograph Direction North

Comments:

Photograph Direction East

Comments:





Photograph Direction South

Comments:

Photograph Direction West

U.S. Army Corps of Engineers

WETLAND DETERMINATION DATA SHEET – Atlantic and Gulf Coastal Plain Region

See ERDC/EL TR-07-24; the proponent agency is CECW-CO-R

Requirement Control Symbol EXEMPT (Authority: AR 335-15, paragraph 5-2a)

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

Tree Stratum (Plot size: 30)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1				Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)
3.				
4.				Total Number of Dominant Species Across All Strata: 2 (B)
5. 6.				Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
		=Total Cover		Prevalence Index worksheet:
50% of total cover:		of total cover:		Total % Cover of: Multiply by:
Sapling Stratum (Plot size: 30)				OBL species 25 x 1 = 25
1.				FACW species 0 x 2 = 0
2				FAC species 50 x 3 = 150
3.				FACU species 0 x 4 = 0
1				UPL species 0 x 5 = 0
				Column Totals: 75 (A) 175 (B)
6.				Prevalence Index = $B/A = 2.33$
		=Total Cover		Hydrophytic Vegetation Indicators:
50% of total cover:		of total cover:		1 - Rapid Test for Hydrophytic Vegetation
Shrub Stratum (Plot size: 30)		or total cover.		X 2 - Dominance Test is >50%
1				$\frac{1}{X}$ 3 - Prevalence Index is $\leq 3.0^{1}$
2				Problematic Hydrophytic Vegetation ¹ (Explain)
3.				Problematic rigurophytic vegetation (Explain)
4				
4.				
5.				¹ Indicators of hydric soil and wetland hydrology must be
6.				present, unless disturbed or problematic.
500/ 64 4 1		=Total Cover		Definitions of Five Vegetation Strata:
50% of total cover:	20%	of total cover:		Tree – Woody plants, excluding woody vines,
Herb Stratum (Plot size: 30)			0.01	approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).
1. Carex lurida	10	No	OBL	
2. Microstegium vimineum	50	Yes	FAC	Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less
Juncus effusus 4.	15	Yes	OBL	than 3 in. (7.6 cm) DBH.
5.				Shrub - Woody Plants, excluding woody vines,
6.				approximately 3 to 20 ft (1 to 6 m) in height.
7				Herb - All herbaceous (non-woody) plants, including
8				herbaceous vines, regardless of size, <u>and</u> woody plants, except woody vines, less than approximately 3
9				ft (1 m) in height.
10				Woody Vine – All woody vines, regardless of height.
11				woody vine – All woody vines, regardless of height.
		=Total Cover		
50% of total cover:3	8 20%	of total cover:	15	
Woody Vine Stratum (Plot size:)				
1.				
2				
3				
4.				
5				Hydrophytic
		=Total Cover		Vegetation
50% of total cover:	20%	of total cover:		Present? Yes X No No
Remarks: (If observed, list morphological adaptation None	ns below.)			

Sampling Point: TC_W_001

SOIL Sampling Point: TC_W_001

Profile Desc	ription: (Describe to	o the depth ne	eded to docu	ment t	he indica	tor or co	onfirm the absence	of indicators.)		
Depth	Matrix			k Featur						
(inches)	Color (moist)	<u> </u>	olor (moist)	%	Type ¹	Loc ²	Texture	Remarks		
0-20	5YR 5/1	95 1	10YR 5/8	5	С	PL	Loamy/Clayey	Prominent redox concentrations		
¹Type: C=Co	ncentration, D=Deple	etion, RM=Red	uced Matrix. V	 IS=Mas	ked Sand	d Grains	² l ocation:	PL=Pore Lining, M=Matrix.		
	ndicators: (Applicat					J CIGINO.		for Problematic Hydric Soils ³ :		
Histosol			Thin Dark Su			S, T, U)		Muck (A9) (LRR O)		
	ipedon (A2)		Barrier Island					Muck (A10) (LRR S)		
Black His			(MLRA 153	3B, 153	BD)		Coast	Prairie Redox (A16)		
Hydrogei	n Sulfide (A4)		Loamy Mucky	y Miner	al (F1) (L	RR O)	(out	side MLRA 150A)		
Stratified	Layers (A5)	_	Loamy Gleye	ed Matri	x (F2)		Reduc	ced Vertic (F18)		
Organic I	Bodies (A6) (LRR, P,	T, U) <u>X</u>	_ Depleted Mat	trix (F3))		•	side MLRA 150A, 150B)		
	cky Mineral (A7) (LRI	· · · · · —	_Redox Dark S		` '			ont Floodplain Soils (F19) (LRR P, T)		
	esence (A8) (LRR U)		_Depleted Dar					alous Bright Floodplain Soils (F20)		
	ck (A9) (LRR P, T)		_Redox Depre		(F8)		•	RA 153B)		
	Below Dark Surface	(A11)	_Marl (F10) (L		A) (841 B)	454)	Red Parent Material (F21)			
	rk Surface (A12)		Depleted Ochric (F11) (MLRA 151) Iron-Manganese Masses (F12) (LRR 0				Very Shallow Dark Surface (F22)			
	airie Redox (A16) (M l	· -	_					side MLRA 138, 152A in FL, 154)		
	ucky Mineral (S1) (LF	(K U, S)	Umbric Surfa					r Islands Low Chroma Matrix (TS7)		
	leyed Matrix (S4) edox (S5)		Delta Ochric Reduced Ver					RA 153B, 153D) (Explain in Remarks)		
	Matrix (S6)		Piedmont Flo	•			· —	(Explain in Nemarks)		
	face (S7) (LRR P, S,	T. U)	_ Anomalous B							
	e Below Surface (S8)		-	-		,	•	ators of hydrophytic vegetation and		
	S, T, U)		(MLRA 149A, 153C, 153D) Very Shallow Dark Surface (F22)				wetland hydrology must be present,			
,	,		(MLRA 138, 152A in FL, 154)				unless disturbed or problematic.			
Restrictive L	ayer (if observed):									
Type:	,									
Depth (in	ches):						Hydric Soil Pres	ent? Yes X No		
Remarks:							,			
None										

Photograph Log

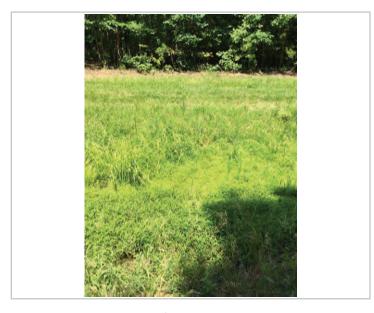
Date: 6/6/22 Feature ID: TC_W_001



Photograph Number ____1

Photograph Direction North

Comments:



Photograph Number 2

Photograph Direction East

Comments:



Photograph Number ___3

Photograph Direction South

Comments:



Photograph Number ____4___

Photograph Direction West

U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Atlantic and Gulf Coastal Plain Region

See ERDC/EL TR-07-24; the proponent agency is CECW-CO-R

Requirement Control Symbol EXEMPT (Authority: AR 335-15, paragraph 5-2a)

Project/Site: CVOW		City/County: Virginia B	seach	Sampling Date:	5/31/2022		
Applicant/Owner: Dominion			State: VA	Sampling Point:	TC_W_001_UP		
Investigator(s): E. Foster, T. Conard	Se	ection, Township, Range:	N/a	-			
Landform (hillside, terrace, etc.): Flat		I relief (concave, convex,	•	Slope (%):	0-5		
Subregion (LRR or MLRA): LRR T, MLRA 1		,	76.0730835985	Datum:			
Soil Map Unit Name: Acredale silt loam	<u> </u>		NWI classificat		11/12/00		
		2 V V			- \		
Are climatic / hydrologic conditions on the sit				explain in Remark	•		
Are Vegetation, Soil, or Hydro	· <u></u>		Circumstances" present?		. No		
Are Vegetation, Soil, or Hydro	ologynaturally problen	natic? (If needed, ex	plain any answers in Re	emarks.)			
SUMMARY OF FINDINGS – Attach	n site map showing sa	mpling point locati	ons, transects, im	portant featu	res, etc.		
Hydrophytic Vegetation Present?	Yes No X	Is the Sampled Area					
Hydric Soil Present?	Yes No X	within a Wetland?	Yes	No X			
Wetland Hydrology Present?	Yes No X						
Remarks:							
HYDROLOGY							
Wetland Hydrology Indicators:			Secondary Indicators	(minimum of two	required)		
Primary Indicators (minimum of one is requ	ired: check all that apply)		Surface Soil Cracl		<u>cquirca</u>		
Surface Water (A1)	Aquatic Fauna (B13)		Sparsely Vegetate		ce (B8)		
High Water Table (A2)	Drainage Patterns		(-/				
Saturation (A3)	Marl Deposits (B15) (L Hydrogen Sulfide Odor		Moss Trim Lines (
Water Marks (B1)	Oxidized Rhizospheres	s on Living Roots (C3)	Dry-Season Wate	r Table (C2)			
Sediment Deposits (B2)	Presence of Reduced	Iron (C4)	Crayfish Burrows	(C8)			
Drift Deposits (B3)	Recent Iron Reduction	in Tilled Soils (C6)	Saturation Visible	on Aerial Imagery	y (C9)		
Algal Mat or Crust (B4)	Thin Muck Surface (C7						
Iron Deposits (B5)	Other (Explain in Rema						
Inundation Visible on Aerial Imagery (B	7)		FAC-Neutral Test	` '			
Water-Stained Leaves (B9)			Sphagnum Moss ((D8) (LRR T,U)			
Field Observations:							
Surface Water Present? Yes	No X Depth (inches						
Water Table Present? Yes	No X Depth (inches						
Saturation Present? Yes	No X Depth (inches): Wetland	Hydrology Present?	Yes	No X		
(includes capillary fringe) Describe Recorded Data (stream gauge, m	onitoring wall, porial photos	provious inspections) if a	voilable:				
Describe Recorded Data (Stream gauge, in	orinoring well, aerial priotos,	previous irispections), ir a	valiable.				
Remarks:							
None							

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

<u>Tree Stratum</u> (Plot size:)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1.				Number of Dominant Species
2.				That Are OBL, FACW, or FAC: (A)
3				Total Number of Dominant Species Across All Strata: 3 (B)
5.				
6.				Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)
	:	=Total Cover		Prevalence Index worksheet:
50% of total cover:	20%	of total cover:		Total % Cover of: Multiply by:
Sapling Stratum (Plot size:)				OBL species15 x 1 =15
1				FACW species 0 x 2 = 0
2.				FAC species 0 x 3 = 0
3.				FACU species 30 x 4 = 120
4.				UPL species 0 x 5 = 0
5.				Column Totals: 45 (A) 135 (B)
6.				Prevalence Index = B/A = 3.00
		=Total Cover		Hydrophytic Vegetation Indicators:
50% of total cover:		of total cover:		1 - Rapid Test for Hydrophytic Vegetation
Shrub Stratum (Plot size:)		or total cover.		2 - Dominance Test is >50%
4				3 - Prevalence Index is ≤3.0¹
2.		-		Problematic Hydrophytic Vegetation ¹ (Explain)
2				
4.				
5.				¹ Indicators of hydric soil and wetland hydrology must be
6.				present, unless disturbed or problematic.
		=Total Cover		Definitions of Five Vegetation Strata:
50% of total cover:	20%	of total cover:		Tree – Woody plants, excluding woody vines,
Herb Stratum (Plot size:30)			ND	approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).
1. Grass sp	40	Yes	ND	(7.5 only of larger in diameter at broast height (BBH).
2. Murdannia keisak	5	No	OBL	Sapling – Woody plants, excluding woody vines,
3. Poa pratensis	15	Yes	FACU	approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.
4. Quercus alba	15	Yes	FACU	than 3 in. (7.0 cm) DBH.
5. Carex Iurida	10	No	OBL	Shrub - Woody Plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.
6.				approximately a to 20 it (1 to a iii) iii neighiii
7.				Herb – All herbaceous (non-woody) plants, including
8.		-		herbaceous vines, regardless of size, <u>and</u> woody plants, except woody vines, less than approximately 3
9				ft (1 m) in height.
11				Woody Vine - All woody vines, regardless of height.
	85 :	=Total Cover		
50% of total cover: 4		of total cover:	17	
Woody Vine Stratum (Plot size:)	2070	or total cover.		
4				
1.				
2.				
3.				
4				
5				Hydrophytic
	:	=Total Cover		Vegetation
50% of total cover:	20%	of total cover:		Present?
Remarks: (If observed, list morphological adaptation	ns below.)			

Sampling Point: TC_W_001_UP

SOIL Sampling Point: TC_W_001_UP

	-	o the dep				ator or c	onfirm the absence	of indicators.)		
Depth	Matrix			K Featur		. 2		_		
(inches)	Color (moist)	%	Color (moist)	<u>%</u>	Type ¹	Loc ²	Texture	Re	marks	
0-6	10YR 4/3	100					Loamy/Clayey			
6-18	10YR 4/2	80	10YR 6/6	20	С	m	Mucky Loam/Clay	Prominent red	ox concentrations	
1							2			
	oncentration, D=Depl					d Grains.		PL=Pore Lining, Marketic Li		
Histosol (ndicators: (Applical	bie to ali i	LR Rs, uniess otne Thin Dark Su			6 T IIV		for Problematic H luck (A9) (LRR O)	yarıc Solis":	
	ipedon (A2)		Barrier Island					luck (A9) (LRR S) luck (A10) (LRR S)		
Black His			(MLRA 15		`	12)		Prairie Redox (A16)		
	n Sulfide (A4)		Loamy Muck			RR O)		side MLRA 150A)	,	
	Layers (A5)		Loamy Gleye	•	` ' '	-,	•	ed Vertic (F18)		
	Bodies (A6) (LRR, P,	T, U)	Depleted Ma					side MLRA 150A, 1	50B)	
5 cm Mu	cky Mineral (A7) (LR	R P, T, U)	Redox Dark	Surface	(F6)		Piedmo	ont Floodplain Soils	(F19) (LRR P, T)	
Muck Pre	esence (A8) (LRR U)		Depleted Da	rk Surfa	ce (F7)		Anoma	lous Bright Floodpl	ain Soils (F20)	
1 cm Mud	ck (A9) (LRR P, T)		Redox Depre	essions	(F8)		(MLR	RA 153B)		
	Below Dark Surface	(A11)	Marl (F10) (L					arent Material (F21)		
	rk Surface (A12)		Depleted Oc					hallow Dark Surfac	` '	
	airie Redox (A16) (M		·—					side MLRA 138, 15		
	ucky Mineral (S1) (L I	KK (), (S)	Umbric Surfa					Islands Low Chron	na Matrix (157)	
	leyed Matrix (S4) edox (S5)		Delta Ochric Reduced Ve					RA 153B, 153D) Explain in Remarks	•1	
	Matrix (S6)		Piedmont Flo	•			· — `	Explain in Kemark	>)	
	face (S7) (LRR P, S,	T. U)	Anomalous E							
	e Below Surface (S8)		(MLRA 14	-			³ Indicators of hydrophytic vegetation and			
	S, T, U)		Very Shallow				wetland hydrology must be present,			
			(MLRA 13	8, 152A	in FL, 1	54)	unless disturbed or problematic.			
Restrictive L	ayer (if observed):									
Type:										
Depth (in	iches):						Hydric Soil Prese	ent? Yes	No_X	
Remarks:	<u> </u>						<u> </u>			

Photograph Log

Date: ______ Feature ID: ______P



Photograph Number ____1

Photograph Direction North

Comments:



Photograph Number ____2

Photograph Direction East

Comments:



Photograph Number ___3

Photograph Direction South

Comments:



Photograph Number ____4

Photograph Direction West

U.S. Army Corps of Engineers

WETLAND DETERMINATION DATA SHEET – Atlantic and Gulf Coastal Plain Region See ERDC/EL TR-07-24; the proponent agency is CECW-CO-R

Requirement Control Symbol EXEMPT (Authority: AR 335-15, paragraph 5-2a)

Project/Site: CVOW	Cit	y/County: VIRGINIA E	BEACH Sa	ampling Date: 6/09/22		
Applicant/Owner: DOMINION			State: VA Sa	ampling Point: TC_W_003		
Investigator(s): E. Foster, K. Shephard	Section	, Township, Range: 1				
Landform (hillside, terrace, etc.): Depression		f (concave, convex, n		Slope (%): 0-5		
				,		
Subregion (LRR or MLRA): LRR T, MLRA 153B	Lat. 30.771410	Long: <u>-76</u>				
Soil Map Unit Name: Tomotley loam			NWI classification:	•		
Are climatic / hydrologic conditions on the site typi	ical for this time of year?	Yes x	No (If no, expla	ain in Remarks.)		
Are Vegetation $_$, Soil $_$, or Hydrology	significantly disturbed	? Are "Normal Cir	cumstances" present?	Yes x No		
Are Vegetation, Soil, or Hydrology	naturally problematic?	(If needed, expl	ain any answers in Rema	rks.)		
SUMMARY OF FINDINGS – Attach site	e map showing sampl	ing point locatio	ns, transects, impo	rtant features, etc.		
		the Sampled Area				
		hin a Wetland?	Yes X N	°		
Wetland Hydrology Present? Yes	<u>X</u> No					
Remarks:						
HYDROLOGY						
			Secondary Indicators (mir	nimum of two required)		
Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; of the control of	check all that annly)	2	Surface Soil Cracks (I	-		
Surface Water (A1)	Aquatic Fauna (B13)		Sparsely Vegetated C			
High Water Table (A2)	Marl Deposits (B15) (LRR U	<u> </u>	Drainage Patterns (B			
Saturation (A3)	Hydrogen Sulfide Odor (C1)	-	Moss Trim Lines (B16			
l 	Oxidized Rhizospheres on L	_	Dry-Season Water Ta			
Sediment Deposits (B2)	Presence of Reduced Iron (_	Crayfish Burrows (C8			
Drift Deposits (B3)	Recent Iron Reduction in Til					
Algal Mat or Crust (B4)	Thin Muck Surface (C7)	Geomorphic Position (D2)				
Iron Deposits (B5)	Other (Explain in Remarks)	Shallow Aquitard (D3)				
Inundation Visible on Aerial Imagery (B7)	-	_	X FAC-Neutral Test (D5	5)		
Water-Stained Leaves (B9)		_	Sphagnum Moss (D8)	(LRR T,U)		
Field Observations:						
Surface Water Present? Yes No	X Depth (inches):					
Water Table Present? Yes No	X Depth (inches):					
Saturation Present? Yes No	X Depth (inches):	Wetland H	ydrology Present?	Yes X No		
(includes capillary fringe)						
Describe Recorded Data (stream gauge, monitor	ring well, aerial photos, previo	ous inspections), if ava	ailable:			
Demonstra						
Remarks:						

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

	Absolute	Dominant	Indicator			
ree Stratum (Plot size:)	% Cover	Species?	Status	Dominance Test worksheet:		
		<u> </u>		Newskan of Bassis and On a size		
				Number of Dominant Species That Are OBL, FACW, or FAC:	5 ((A)
				Illat Ale OBL, FACW, OF FAC.	((A)
J				Total Number of Dominant		
i				Species Across All Strata:	5 ((B)
i				Percent of Dominant Species		
S				That Are OBL, FACW, or FAC:	100.0% ((A/B
	-	=Total Cover		Prevalence Index worksheet:		
50% of total cover:	20%	of total cover:		Total % Cover of:	Multiply by:	
apling Stratum (Plot size:)				OBL species 40 x 1	1 = 40	_
					2 = 20	_
-						_
				· —	3 = 165	_
					1 = 0	_
·				UPL species0 x 5	5 = 0	_
i				Column Totals: 105 (A)	225	(E
i				Prevalence Index = B/A =	2.14	_
	-	=Total Cover		Hydrophytic Vegetation Indicate	ors:	
50% of total cover:	20%	of total cover:		1 - Rapid Test for Hydrophytic	Vegetation	
Shrub Stratum (Plot size: 30 ft)				X 2 - Dominance Test is >50%	-	
. Liquidambar styraciflua	15	Yes	FAC	X 3 - Prevalence Index is ≤3.0 ¹		
2. Baccharis halimifolia	10		FAC	I —	ototion ¹ (Evaloin	٠)
		Yes		Problematic Hydrophytic Vege	atation (Explain	1)
3. Sambucus nigra	5	No	FACW			
Betula nigra	5	No	FACW			
5.				¹ Indicators of hydric soil and wetla	and hydrology m	ıust l
5.				present, unless disturbed or proble	ematic.	
	35	=Total Cover		Definitions of Five Vegetation S	trata:	
50% of total cover:	18 20%	of total cover:	7	Tree – Woody plants, excluding w		
Herb Stratum (Plot size: 30)				approximately 20 ft (6 m) or more		in.
	40	Vaa	OBL	(7.6 cm) or larger in diameter at b		
Juncus effusus	40	Yes	OBL			,
2. Microstegium vimineum	15	Yes	FAC	Sapling – Woody plants, excluding		
3				approximately 20 ft (6 m) or more	in height and les	SS
l				than 3 in. (7.6 cm) DBH.		
5.				Shrub - Woody Plants, excluding	woody vines,	
i.	-			approximately 3 to 20 ft (1 to 6 m)	in height.	
·	-			Harle All bank as a second care consider	h A mlanta Carlerd	P
· 3.				Herb – All herbaceous (non-wood herbaceous vines, regardless of s	, ,	_
				plants, except woody vines, less the		
).				ft (1 m) in height.	пан аррголинате	0., 0
0						ada t
1				Woody Vine – All woody vines, re	gardless of heig	gnt.
	55	=Total Cover				
50% of total cover:	28 20%	of total cover:	11			
Voody Vine Stratum (Plot size: 30 ft)						
. Rubus pensilvanicus	15	Yes	FAC			
2.						
	- ——					
	- ——					
	- ——					
l.	·			Hydrophytic		
3. 4. 5.	15	=Total Cover		Hydrophytic Vegetation		

SOIL Sampling Point: TC_W_003

		to the dept				ator or co	onfirm the absence	of indicators.)			
Depth (inches)	Matrix Color (moist)	%	Color (moist)	k Featur	res Type ¹	Loc ²	Texture	Remarks			
0-3	10YR 4/1	100	Color (molot)	70	Турс		Loamy/Clayey	SANDY LOAM			
			5VD 4/0								
3-20	2.5YR 5/1	70	5YR 4/6	30		PL	Loamy/Clayey	Prominent redox concentrations			
	oncentration, D=Dep					d Grains.		PL=Pore Lining, M=Matrix.			
-	Indicators: (Applica	ble to all L						for Problematic Hydric Soils ³ :			
Histosol	, ,		Thin Dark Su					luck (A9) (LRR O)			
l ——	pipedon (A2)		Barrier Island		•	12)		luck (A10) (LRR S)			
Black His	` '		(MLRA 15					Prairie Redox (A16)			
_ · ·	n Sulfide (A4)		Loamy Muck	•	, , ,	RR O)	•	ide MLRA 150A)			
	Layers (A5)		Loamy Gleye		` '			ed Vertic (F18)			
	Bodies (A6) (LRR, P		X Depleted Ma	` '			•	side MLRA 150A, 150B)			
	cky Mineral (A7) (LR		Redox Dark					ont Floodplain Soils (F19) (LRR P, T) lous Bright Floodplain Soils (F20)			
	esence (A8) (LRR U) ck (A9) (LRR P, T)	,	x Redox Depre					AA 153B)			
	Below Dark Surface	e (A11)	Marl (F10) (L		(10)		•	arent Material (F21)			
	ark Surface (A12)	3 (7111)	Depleted Ocl		1) (MLR	A 151)		hallow Dark Surface (F22)			
	airie Redox (A16) (N	ILRA 150A						ide MLRA 138, 152A in FL, 154)			
	lucky Mineral (S1) (L		Umbric Surfa					Islands Low Chroma Matrix (TS7)			
	leyed Matrix (S4)	. ,	Delta Ochric					(A 153B, 153D)			
	edox (S5)		Reduced Ver				50B) Other (Explain in Remarks)			
Stripped	Matrix (S6)		Piedmont Flo	odplain	Soils (F	19) (MLR	A 149A)				
Dark Sui	rface (S7) (LRR P, S	, T, U)	Anomalous E	Bright Fl	oodplain	Soils (F2	0)				
Polyvalu	e Below Surface (S8	3)	(MLRA 14	9A, 153	C, 153D)	³ Indicators of hydrophytic vegetation and				
(LRR	S, T, U)		Very Shallow	Dark S	Surface (I	F22)	wetland hydrology must be present,				
			(MLRA 13	8, 152A	in FL, 1	54)	unle	ss disturbed or problematic.			
	_ayer (if observed):										
Type:	achoo):		<u> </u>				Hydric Soil Prese	ent? Yes X No			
Depth (ir							nyunc son Frese	ent? Yes X No			
Remarks: None											

Photograph Log

Date: 6/9/22 Feature ID: TC_W_003



Photograph Number ____1

Photograph Direction North

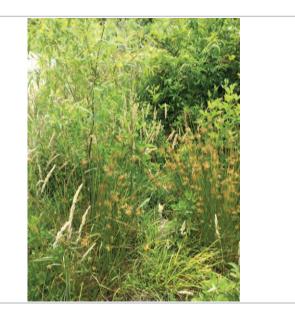




Photograph Number ____2

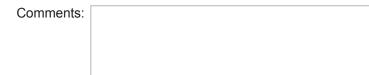
Photograph Direction East

Comments:



Photograph Number ___3

Photograph Direction South





Photograph Number ____4___

Photograph Direction West

U.S. Army Corps of Engineers

WETLAND DETERMINATION DATA SHEET – Atlantic and Gulf Coastal Plain Region

See ERDC/EL TR-07-24; the proponent agency is CECW-CO-R

Requirement Control Symbol EXEMPT (Authority: AR 335-15, paragraph 5-2a)

Project/Site: CVOW	City/County: Virginia B	each	Sampling Date: 6/10/22			
Applicant/Owner: DOMINION		State: VA	Sampling Point: TC_W_004			
nvestigator(s): E. Foster, K. Shephard Section, Township, Range: N/a						
Landform (hillside, terrace, etc.): Terrace	Local relief (concave, convex,	none): Concave	Slope (%): 2			
Subregion (LRR or MLRA): LRR T, MLRA 1		76.053588	Datum: 2			
Soil Map Unit Name: Acredale silt loam		NWI classificati				
Are climatic / hydrologic conditions on the site	e typical for this time of year? Yes X	No (If no, e:	xplain in Remarks.)			
Are Vegetation, Soil, or Hydro		Circumstances" present?				
Are Vegetation, Soil, or Hydro		plain any answers in Re				
	n site map showing sampling point location	-				
Hydrophytic Vegetation Present?	Yes X No Is the Sampled Area					
Hydric Soil Present?	Yes X No within a Wetland?	Yes X	No			
Wetland Hydrology Present?	Yes X No					
HYDROLOGY						
Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)			
Primary Indicators (minimum of one is requi	* * * * * * * * * * * * * * * * * * * *	Surface Soil Crack				
Surface Water (A1)	Aquatic Fauna (B13)		d Concave Surface (B8)			
High Water Table (A2)	Marl Deposits (B15) (LRR U)	Drainage Patterns (B10)				
X Saturation (A3)	Hydrogen Sulfide Odor (C1)	Moss Trim Lines (B16) Dry-Season Water Table (C2)				
Water Marks (B1) Sediment Deposits (B2)	X Oxidized Rhizospheres on Living Roots (C3) Presence of Reduced Iron (C4)	Crayfish Burrows (C8)				
Drift Deposits (B3)	Recent Iron Reduction in Tilled Soils (C6)	Saturation Visible on Aerial Imagery (C9)				
Algal Mat or Crust (B4)	Thin Muck Surface (C7)	Geomorphic Position (D2)				
Iron Deposits (B5)	Other (Explain in Remarks)	Shallow Aquitard (D3)				
Inundation Visible on Aerial Imagery (B		X FAC-Neutral Test (D5)				
Water-Stained Leaves (B9)	,	Sphagnum Moss (D8) (LRR T,U)				
Field Observations:						
Surface Water Present? Yes	No X Depth (inches):					
Water Table Present? Yes	No X Depth (inches):					
	No Depth (inches):11 Wetland	Hydrology Present?	Yes X No			
(includes capillary fringe)						
Describe Recorded Data (stream gauge, mo	onitoring well, aerial photos, previous inspections), if a	vailable:				
Remarks:						

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

Troc Stratum (Diet size)	Absolute	Dominant	Indicator	Daminanas Tast waykahaati
Tree Stratum (Plot size:) 1.	% Cover	Species?	Status	Dominance Test worksheet:
2.				Number of Dominant Species That Are OBL, FACW, or FAC:5 (A)
3. 4.				Total Number of Dominant Species Across All Strata: 5 (B)
5.				
6.				Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
		=Total Cover		Prevalence Index worksheet:
50% of total cover:	20%	of total cover:		Total % Cover of: Multiply by:
Sapling Stratum (Plot size:30)				OBL species 104 x 1 = 104
1. Salix nigra	25	Yes	OBL	FACW species 5 x 2 = 10
2. Populus heterophylla	15	Yes	OBL	FAC species15 x 3 =45
3. Liquidambar styraciflua	5	No	FAC	FACU species12 x 4 =48
4				UPL species0 x 5 =0
5.				Column Totals: 136 (A) 207 (B)
6.				Prevalence Index = B/A = 1.52
	45	=Total Cover		Hydrophytic Vegetation Indicators:
50% of total cover: 2	23 20%	of total cover:	9	1 - Rapid Test for Hydrophytic Vegetation
Shrub Stratum (Plot size:)				X 2 - Dominance Test is >50%
1.				X 3 - Prevalence Index is ≤3.0 ¹
2.				Problematic Hydrophytic Vegetation ¹ (Explain)
3.				_
4.				
5.				¹ Indicators of hydric soil and wetland hydrology must be
6.				present, unless disturbed or problematic.
		=Total Cover		Definitions of Five Vegetation Strata:
50% of total cover:	20%	of total cover:		Tree – Woody plants, excluding woody vines,
Herb Stratum (Plot size: 30)				approximately 20 ft (6 m) or more in height and 3 in.
1. Juncus effusus	40	Yes	OBL	(7.6 cm) or larger in diameter at breast height (DBH).
2. Carex lurida	15	Yes	OBL	Sapling – Woody plants, excluding woody vines,
3. Persicaria sagittata	7	No	OBL	approximately 20 ft (6 m) or more in height and less
4. Osmundastrum cinnamomeum	5	No	FACW	than 3 in. (7.6 cm) DBH.
5. Murdannia keisak	2	No	OBL	Shrub - Woody Plants, excluding woody vines,
6. Lonicera japonica	10	No	FACU	approximately 3 to 20 ft (1 to 6 m) in height.
7. Eupatorium capillifolium	2	No	FACU	Herb – All herbaceous (non-woody) plants, including
8.				herbaceous vines, regardless of size, and woody
9.				plants, except woody vines, less than approximately 3
10.				ft (1 m) in height.
11.				Woody Vine - All woody vines, regardless of height.
	81	=Total Cover		
50% of total cover: 4	11 20%	of total cover:	17	
Woody Vine Stratum (Plot size: 20 ft)				
1. Rubus pensilvanicus	10	Yes	FAC	
2.				
3.				
4.				
5.				
	10	=Total Cover		Hydrophytic Vegetation
50% of total cover:		of total cover:	2	Present? Yes X No
Remarks: (If observed, list morphological adaptatio				
Tromanto. (ii observed, list morphological adaptatio	is bolow.)			

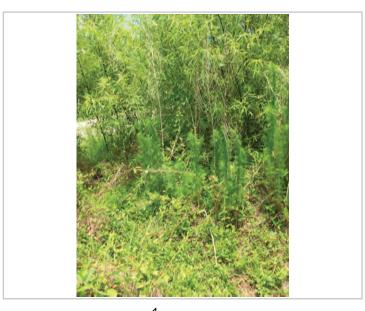
Sampling Point: __TC_W_004

SOIL Sampling Point: TC_W_004

		o the dep				ator or co	onfirm the absence	of indicators.)		
Depth	Matrix			x Featu		. 2	- .	5		
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type ¹	Loc ²	Texture	Remarks		
0-8	10yr 3/1	100					Loamy/Clayey	Sandy loam		
8-20	2.5y 5/1	95	7.5yr 4/6	5	C	PL	Loamy/Clayey			
1					. —		2			
	oncentration, D=Deple					d Grains.		PL=Pore Lining, M=Matrix.		
_	ndicators: (Applical	ole to all I				C T II)		for Problematic Hydric Soils ³ :		
Histosol	(A1) ipedon (A2)		Thin Dark Su					uck (A9) (LRR O)		
Black His				Barrier Islands 1 cm Muck (S12) (MLRA 153B, 153D)				2 cm Muck (A10) (LRR S) Coast Prairie Redox (A16)		
	n Sulfide (A4)		Loamy Muck			RR O)	(outside MLRA 150A)			
	Layers (A5)		Loamy Gleye	,	· / •	,	x Reduced Vertic (F18)			
	Bodies (A6) (LRR, P,	T, U)	X Depleted Ma				(outside MLRA 150A, 150B)			
5 cm Mu	cky Mineral (A7) (LR	R P, T, U)	Redox Dark	Surface	(F6)		Piedmont Floodplain Soils (F19) (LRR P, T)			
Muck Pre	esence (A8) (LRR U)		Depleted Da	rk Surfa	ice (F7)		Anomalous Bright Floodplain Soils (F20)			
1 cm Mu	ck (A9) (LRR P, T)		Redox Depre	essions	(F8)		(MLRA 153B)			
x Depleted	Below Dark Surface	(A11)	Marl (F10) (L	.RR U)			Red Pa	rent Material (F21)		
	rk Surface (A12)		Depleted Oc				Very Shallow Dark Surface (F22)			
	airie Redox (A16) (M							ide MLRA 138, 152A in FL, 154)		
	ucky Mineral (S1) (LI	RR O, S)					Islands Low Chroma Matrix (TS7)			
	leyed Matrix (S4)		Delta Ochric (F17) (MLRA 151) Reduced Vertic (F18) (MLRA 150A, 15							
	edox (S5) Matrix (S6)		Piedmont Flo	•						
	face (S7) (LRR P, S,	T. U)	Anomalous E							
	e Below Surface (S8)		(MLRA 14	_				ors of hydrophytic vegetation and		
(LRR S, T, U)			Very Shallow Dark Surface (F22)				wetland hydrology must be present,			
•			(MLRA 13				unless disturbed or problematic.			
Restrictive L	ayer (if observed):									
Type:										
Depth (in	iches):						Hydric Soil Present? Yes X No			
Remarks:	<u> </u>									

Date: 6/10/22

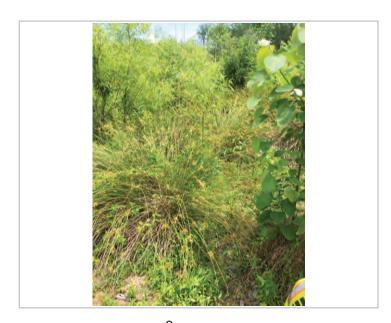
Feature Name: TC_W_004



Photograph Number ____1

Photograph Direction North

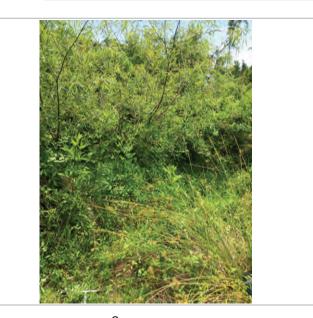
Comments:



Photograph Number ___2

Photograph Direction East

Comments:



Photograph Number 3

Photograph Direction South

Comments:



Photograph Number ___4

Photograph Direction West

U.S. Army Corps of Engineers

WETLAND DETERMINATION DATA SHEET – Atlantic and Gulf Coastal Plain Region

See ERDC/EL TR-07-24; the proponent agency is CECW-CO-R

Requirement Control Symbol EXEMPT (Authority: AR 335-15, paragraph 5-2a)

Project/Site: CVOW	City/County: Virginia E	Beach Sampling Date: 06/10/2022			
Applicant/Owner: DOMINION		State: VA Sampling Point: TC W 003 UF			
Investigator(s): E. Foster, K. Shephard	Section, Township, Range:	TO 144 004 HE			
Landform (hillside, terrace, etc.): Terrace	Local relief (concave, convex,				
Subregion (LRR or MLRA): LRR T, MLRA		-76.053784 Datum: NAD83			
	100D Lat. 00.171221 Long.				
Soil Map Unit Name: Tomotley loam		NWI classification: None			
Are climatic / hydrologic conditions on the si		No (If no, explain in Remarks.)			
Are Vegetation, Soil, or Hydr		Circumstances" present? Yes x No No			
Are Vegetation, Soil, or Hydr	ologynaturally problematic? (If needed, ex	xplain any answers in Remarks.)			
SUMMARY OF FINDINGS – Attack	h site map showing sampling point locat	ions, transects, important features, etc.			
Hydrophytic Vegetation Present?	Yes No X Is the Sampled Area				
Hydric Soil Present?	Yes X No within a Wetland?	Yes No_X_			
Wetland Hydrology Present?	Yes No X				
Remarks:					
None					
HYDROLOGY					
Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)			
Primary Indicators (minimum of one is requ		Surface Soil Cracks (B6)			
Surface Water (A1)	Aquatic Fauna (B13)	Sparsely Vegetated Concave Surface (B8)			
High Water Table (A2)	Marl Deposits (B15) (LRR U)	Drainage Patterns (B10)			
Saturation (A3)	Hydrogen Sulfide Odor (C1)	Moss Trim Lines (B16)			
Water Marks (B1) Sediment Deposits (B2)	Oxidized Rhizospheres on Living Roots (C3) Presence of Reduced Iron (C4)	Dry-Season Water Table (C2) Crayfish Burrows (C8)			
Drift Deposits (B3)	Recent Iron Reduction in Tilled Soils (C6)	Saturation Visible on Aerial Imagery (C9)			
Algal Mat or Crust (B4)	Thin Muck Surface (C7)	Geomorphic Position (D2)			
Iron Deposits (B5)	Other (Explain in Remarks)	Shallow Aquitard (D3)			
Inundation Visible on Aerial Imagery (E		FAC-Neutral Test (D5)			
Water-Stained Leaves (B9)	• ,	Sphagnum Moss (D8) (LRR T,U)			
Field Observations:					
Surface Water Present? Yes	No X Depth (inches):				
Water Table Present? Yes	No X Depth (inches):				
Saturation Present? Yes		Hydrology Present? Yes No X			
(includes capillary fringe)					
Describe Recorded Data (stream gauge, m	onitoring well, aerial photos, previous inspections), if a	available:			
Remarks:					
None					

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

2.		of plants.	la dia atau	Sampling Point: TC W 003 UP TC W 004_UP
	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
				Number of Dominant Species
•				That Are OBL, FACW, or FAC: (A)
3				Total Number of Dominant
4				Species Across All Strata: 2 (B)
5.				Percent of Dominant Species
6.				That Are OBL, FACW, or FAC: 0.0% (A/B)
7.				Prevalence Index worksheet:
8.				Total % Cover of: Multiply by:
		=Total Cover		OBL species 0 x 1 = 0
50% of total cover:	20%	of total cover:		FACW species 0 x 2 = 0
Sapling/Shrub Stratum (Plot size:)			FAC species 0 x 3 = 0
1.				FACU species 100 x 4 = 400
2.				UPL species 0 x 5 = 0
3.				Column Totals: 100 (A) 400 (B)
4.				Prevalence Index = B/A = 4.00
5.				Hydrophytic Vegetation Indicators:
6.				1 - Rapid Test for Hydrophytic Vegetation
7.				2 - Dominance Test is >50%
8.				3 - Prevalence Index is ≤3.0 ¹
o		=Total Cover		Problematic Hydrophytic Vegetation ¹ (Explain)
FOO/ of total aggress				— Problematic Hydrophytic Vegetation (Explain)
50% of total cover:	20%	of total cover:		
Herb Stratum (Plot size: 20 ft)	00		E4011	
1. Lespedeza cuneata	80	Yes	FACU	¹ Indicators of hydric soil and wetland hydrology must be
Eupatorium capillifolium	20	Yes	FACU	present, unless disturbed or problematic.
3.				Definitions of Four Vegetation Strata:
4				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
5				more in diameter at breast height (DBH), regardless of height.
6.				noight.
7				Sapling/Shrub – Woody plants, excluding vines, less
8				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
9				
10				Herb – All herbaceous (non-woody) plants, regardless
11				of size, and woody plants less than 3.28 ft tall.
12				
	100	=Total Cover		Woody Vine – All woody vines greater than 3.28 ft in
50% of total cover:5	20%	of total cover:	20	height.
Woody Vine Stratum (Plot size:				
1.				
2.				
2				
2. 3. 4.				
2. 3.		=Total Cover		Hydrophytic
2		=Total Cover of total cover:		Hydrophytic Vegetation Present? Yes No _ X

SOIL | TC_W_003_UP | TC_W_004_UP | TC_W_004_UP

		o the dep				ator or co	onfirm the absence of	of indicators.)		
Depth (inches)	Matrix Color (moist)	%	Color (moist)	x Featur	res Type ¹	Loc ²	Texture	Remarks		
,			Color (Inoist)	/0	Туре	LUC				
0-8	10yr 3/1	100					Loamy/Clayey	Sandy loam		
8-20	2.5Y 5/1	95	7.5YR 4/6	5	<u>C</u>	PL	Loamy/Clayey	Prominent redox concentrations		
¹ Type: C=Co	ncentration, D=Deple	etion, RM=	Reduced Matrix, N	/IS=Mas	ked San	d Grains.	² Location: F	PL=Pore Lining, M=Matrix.		
Hydric Soil In	ndicators: (Applical	ble to all l	RRs, unless other	erwise r	noted.)		Indicators t	or Problematic Hydric Soils ³ :		
Histosol (A1)		Thin Dark Su	urface (S	69) (LRR	S, T, U)	1 cm Muck (A9) (LRR O)			
Histic Epi	pedon (A2)		Barrier Island	Barrier Islands 1 cm Muck (S12)				2 cm Muck (A10) (LRR S)		
Black His	tic (A3)		(MLRA 15	3B, 153	D)		Coast Prairie Redox (A16)			
Hydrogen	Sulfide (A4)		Loamy Muck	y Miner	al (F1) (L	.RR O)	(outside MLRA 150A)			
Stratified	Layers (A5)		Loamy Gleye	ed Matri	x (F2)		Reduce	Reduced Vertic (F18)		
X Organic E	Bodies (A6) (LRR, P,	T, U)	X Depleted Ma	trix (F3))		(outside MLRA 150A, 150B)			
5 cm Muc	ky Mineral (A7) (LR	R P, T, U)	Redox Dark	Surface	(F6)		Piedmont Floodplain Soils (F19) (LRR P, T)			
Muck Pre	sence (A8) (LRR U)		Depleted Da	rk Surfa	ce (F7)		Anomalous Bright Floodplain Soils (F20)			
1 cm Muc	ck (A9) (LRR P, T)		Redox Depre	essions	(F8)		(MLRA 153B)			
X Depleted	Below Dark Surface	(A11)	Marl (F10) (L	Marl (F10) (LRR U)				Red Parent Material (F21)		
Thick Dar	k Surface (A12)		Depleted Oc	hric (F1	1) (MLR /	A 151)	Very Shallow Dark Surface (F22)			
Coast Pra	airie Redox (A16) (M	LRA 150A	Iron-Mangan	ese Ma	sses (F1	2) (LRR (O, P, T) (outside MLRA 138, 152A in FL, 154)			
Sandy Mu	ucky Mineral (S1) (Ll	RR O, S)	X Umbric Surfa	ace (F13	3) (LRR F	P, T, U)	Barrier Islands Low Chroma Matrix (TS7)			
Sandy Gl	eyed Matrix (S4)		Delta Ochric	(F17) (I	MLRA 15	51)	(MLRA 153B, 153D)			
Sandy Re	edox (S5)		Reduced Ve	Vertic (F18) (MLRA 150A, 150B) Other (Explain in Remarks)						
Stripped I	Matrix (S6)		Piedmont Flo	oodplain	Soils (F	19) (MLR	A 149A)			
Dark Surf	ace (S7) (LRR P, S,	T, U)	Anomalous E	Bright Fl	oodplain	Soils (F2	20)			
Polyvalue	Below Surface (S8)		(MLRA 14	9A, 153	C, 153D)	³ Indicators of hydrophytic vegetation and			
(LRR S			Very Shallow Dark Surface (F22)				wetland hydrology must be present,			
·			(MLRA 138, 152A in FL, 154)				unless disturbed or problematic.			
	ayer (if observed):									
Type: _ Depth (in	chae).						Hvdric Soil Prese	nt? Yes X No		
							Tryunc 3011 Tese	165 <u>A</u> 110		
Remarks:										
None										

Photograph Log

Date: 6/10/22



Photograph Number ____1

Photograph Direction North

Comments:



Photograph Number ____2

Photograph Direction East

Comments:



Photograph Number ___3

Photograph Direction South

Comments:



Photograph Number ____4___

Photograph Direction West

U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Atlantic and Gulf Coastal Plain Region

See ERDC/EL TR-07-24; the proponent agency is CECW-CO-R

Requirement Control Symbol EXEMPT (Authority: AR 335-15, paragraph 5-2a)

Project/Site: CVOW	City/County: VIRGINIA BEACH Sampling Date: 06/10/2022
Applicant/Owner: Dominion	State: VA Sampling Point: TC_W_005
Investigator(s): E.Foster, K. Shephard	Section, Township, Range: N/a
Landform (hillside, terrace, etc.): Depression	Local relief (concave, convex, none): Concave Slope (%): 0-5
Subregion (LRR or MLRA): LRR T, MLRA 153B Lat: 36.7	
<u></u>	
Soil Map Unit Name: Acredale silt loam	NWI classification: PSS
Are climatic / hydrologic conditions on the site typical for this t	<u> </u>
Are Vegetation, Soil, or Hydrologysigni	
Are Vegetation, Soil, or Hydrologynature	rally problematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map sh	owing sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes X No	Is the Sampled Area
Hydric Soil Present? Yes X No	
Wetland Hydrology Present? Yes x No	
Remarks:	
Gravel fill is present	
INCREASE ANY	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that	<u> </u>
Surface Water (A1) — Aquatic Fa	
	Drainage Patterns (B10) — Drainage Patterns (B10) Maga Trim Linea (B16)
I ——	Sulfide Odor (C1) Moss Trim Lines (B16) Pry Season Water Table (C2)
	thizospheres on Living Roots (C3) Dry-Season Water Table (C2) Crowtish Burraya (C3)
	of Reduced Iron (C4) Reduction in Tilled Soils (C6) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9)
	n Reduction in Tilled Soils (C6) Surface (C7) Saturation Visible on Aerial Imagery (C9) X Geomorphic Position (D2)
	lain in Remarks) Shallow Aquitard (D3)
Iron Deposits (B5) Other (Exp Inundation Visible on Aerial Imagery (B7)	X FAC-Neutral Test (D5)
Water-Stained Leaves (B9)	Sphagnum Moss (D8) (LRR T,U)
	Spriagram woss (DO) (Erric 1,0)
Field Observations:	
	epth (inches):
	epth (inches): Wetland Hydrology Present? Yes, y No.
	epth (inches): Wetland Hydrology Present? Yes _ x No
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, ae	rial photos, pravious inspections), if available:
Describe Necorded Data (stream gauge, monitoring won, ac	nai priotos, previous inspections), ii available.
Remarks:	
Troma.ic.	

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

	Absolute	Dominant	Indicator	
<u>Tree Stratum</u> (Plot size:)	% Cover	Species?	Status	Dominance Test worksheet:
1.				Number of Dominant Species
2.				That Are OBL, FACW, or FAC:1 (A)
3.				Total Number of Dominant
4				Species Across All Strata: 1 (B)
5.				Percent of Dominant Species
6.				That Are OBL, FACW, or FAC: 100.0% (A/B)
7				Prevalence Index worksheet:
8.				Total % Cover of: Multiply by:
		=Total Cover		OBL species90 x 1 =90
50% of total cover:		of total cover:		FACW species 10 x 2 = 20
Sapling/Shrub Stratum (Plot size:)				FAC species 0 x 3 = 0
1.				FACU species 0 x 4 = 0
2				UPL species 0 x 5 = 0
3				Column Totals: 100 (A) 110 (B)
4				Prevalence Index = B/A = 1.10
5				Hydrophytic Vegetation Indicators:
6.				1 - Rapid Test for Hydrophytic Vegetation
7				X 2 - Dominance Test is >50%
8.				X 3 - Prevalence Index is ≤3.0 ¹
		=Total Cover		Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover:	20%	of total cover:		
Herb Stratum (Plot size: 30)				
1. Saururus cernuus	90	Yes	OBL	¹ Indicators of hydric soil and wetland hydrology must be
2. Boehmeria cylindrica	10	No	FACW	present, unless disturbed or problematic.
3.				Definitions of Four Vegetation Strata:
4.				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
5.				more in diameter at breast height (DBH), regardless of
6.				height.
7.				
8.				Sapling/Shrub – Woody plants, excluding vines, less
9.				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
10.		-		
11.		-		Herb – All herbaceous (non-woody) plants, regardless
12.				of size, and woody plants less than 3.28 ft tall.
·	100	=Total Cover		Woody Vine – All woody vines greater than 3.28 ft in
50% of total cover: 5		of total cover:	20	height.
Woody Vine Stratum (Plot size:)	2070	or total cover.		
1				
2		-		
3.				
5		Tatal Causer		Hydrophytic
F00/ of total acres		=Total Cover		Vegetation
50% of total cover:	20%	of total cover:		Present? Yes No
Remarks: (If observed, list morphological adaptation	ns below.)			

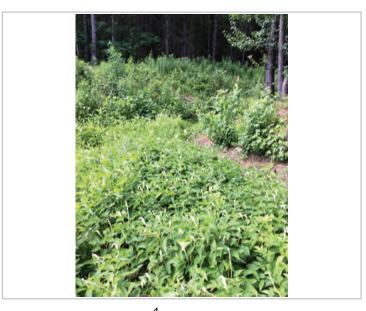
Sampling Point: __TC_W_005

SOIL Sampling Point: TC_W_005

	ription: (Describe t	o the dep				tor or co	onfirm the absence o	of indicators.)			
Depth	Matrix			Featur		2					
(inches)	Color (moist)	%	Color (moist)	<u>%</u>	Type ¹	Loc ²	Texture	Remarks			
0-6	10YR 2/2	100					Loamy/Clayey	Loamy Clay			
6-12	10yr 4/1	95	7.5YR 4/4	5	С	PL	Loamy/Clayey	Prominent redox concentrations			
12-14	10YR 4/1	90	7.5YR 5/8	10	<u>C</u>	M	Loamy/Clayey	Prominent redox concentrations			
¹Type: C=Co	oncentration, D=Depl	etion, RM=	Reduced Matrix, N	IS=Mas	ked Sand	d Grains.	² Location: F	PL=Pore Lining, M=Matrix.			
Hydric Soil I	ndicators: (Application	ble to all I	RRs, unless othe	rwise n	oted.)		Indicators f	or Problematic Hydric Soils ³ :			
Histosol	(A1)		Thin Dark Su	rface (S	9) (LRR	S, T, U)	1 cm Mu	uck (A9) (LRR O)			
Histic Ep	ipedon (A2)		Barrier Island	ls 1 cm	Muck (S	12)	2 cm Mu	uck (A10) (LRR S)			
Black His	stic (A3)		(MLRA 15	3B, 153	D)		Coast P	rairie Redox (A16)			
Hydrogei	n Sulfide (A4)		Loamy Muck	y Minera	al (F1) (L	RR O)	(outsi	de MLRA 150A)			
Stratified	Layers (A5)		Loamy Gleye	d Matrix	(F2)		Reduce	d Vertic (F18)			
x Organic I	Bodies (A6) (LRR, P,	T, U)	X Depleted Mat	trix (F3)			(outsi	de MLRA 150A, 150B)			
5 cm Mu	cky Mineral (A7) (LR	R P, T, U)	Redox Dark S	Surface	(F6)		Piedmo	nt Floodplain Soils (F19) (LRR P, T)			
Muck Pre	esence (A8) (LRR U)		Depleted Dar	k Surfa	ce (F7)		Anomal	ous Bright Floodplain Soils (F20)			
1 cm Mu	ck (A9) (LRR P, T)		Redox Depre	ssions ((F8)		(MLR	A 153B)			
X Depleted	Below Dark Surface	(A11)	Marl (F10) (L	RR U)			Red Par	rent Material (F21)			
Thick Da	rk Surface (A12)		Depleted Och	nric (F11	1) (MLR A	(151)	Very Sh	allow Dark Surface (F22)			
Coast Pr	airie Redox (A16) (M	LRA 150A	Iron-Mangan	ese Mas	sses (F12	2) (LRR (D, P, T) (outsi	de MLRA 138, 152A in FL, 154)			
Sandy M	ucky Mineral (S1) (LI	RR O, S)	Umbric Surfa	ce (F13) (LRR F	, T, U)	Barrier I	slands Low Chroma Matrix (TS7)			
Sandy G	leyed Matrix (S4)		Delta Ochric	(F17) (N	ILRA 15	1)	(MLR	A 153B, 153D)			
	edox (S5)		Reduced Ver					Explain in Remarks)			
	Matrix (S6)		Piedmont Flo	odplain	Soils (F	19) (MLR		·			
	face (S7) (LRR P, S,	T, U)	Anomalous B								
	e Below Surface (S8)		(MLRA 149	-				ors of hydrophytic vegetation and			
	S, T, U)		Very Shallow				wetland hydrology must be present,				
,			(MLRA 138		`	,		s disturbed or problematic.			
Restrictive L	ayer (if observed):										
Type: 0	GRAVEL PRESENT	(FILL)									
Depth (in	iches):	14					Hydric Soil Prese	nt? Yes X No			
Remarks:	T OUTFALL AT STC		D RMD								
WEILANDA	1 OUTFALL AT STO	KIVIVVAIE	IK DIVIP								

Photograph Log

Date: 6/10/22 Feature ID: TC_W_005



Photograph Number ____1

Photograph Direction North





Photograph Number 2

Photograph Direction East

Comments:



Photograph Number ___3

Photograph Direction South





Photograph Number ____4___

Photograph Direction West

Comments:

U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Atlantic and Gulf Coastal Plain Region

See ERDC/EL TR-07-24; the proponent agency is CECW-CO-R

Requirement Control Symbol EXEMPT (Authority: AR 335-15, paragraph 5-2a)

Project/Site: CVOW	City/County: Virginia Beach Sampling Date: 06/10/2022					
Applicant/Owner: Dominion	State: VA Sampling Point: TC_W_005_UP					
Investigator(s): E.Foster,K.Shephard Sec	ction, Township, Range: N/a					
	relief (concave, convex, none): Concave Slope (%): 2					
Subregion (LRR or MLRA): LRR T, MLRA 153B Lat: 36.774397	Long: -76.033142 Datum: NAD83					
Soil Map Unit Name: Acredale silt loam	NWI classification: PFO					
Are climatic / hydrologic conditions on the site typical for this time of year?						
Are Vegetation, Soil, or Hydrologysignificantly distur						
Are Vegetation, Soil, or Hydrologynaturally problems	atic? (If needed, explain any answers in Remarks.)					
SUMMARY OF FINDINGS – Attach site map showing san	mpling point locations, transects, important features, etc.					
Hydrophytic Vegetation Present? Yes X No	Is the Sampled Area					
Hydric Soil Present? Yes X No	within a Wetland? Yes No _X					
Wetland Hydrology Present? Yes No X						
Remarks:						
None						
HYDROLOGY						
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)					
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)					
Surface Water (A1)Aquatic Fauna (B13)	Sparsely Vegetated Concave Surface (B8)					
High Water Table (A2) Marl Deposits (B15) (LR						
Saturation (A3) Hydrogen Sulfide Odor ((C1) Moss Trim Lines (B16)					
Water Marks (B1) Oxidized Rhizospheres	on Living Roots (C3) Dry-Season Water Table (C2)					
Sediment Deposits (B2) Presence of Reduced Iron	ron (C4) Crayfish Burrows (C8)					
Drift Deposits (B3) Recent Iron Reduction in	n Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9)					
Algal Mat or Crust (B4) Thin Muck Surface (C7)	Geomorphic Position (D2)					
Iron Deposits (B5) Other (Explain in Remar						
Inundation Visible on Aerial Imagery (B7)	FAC-Neutral Test (D5)					
Water-Stained Leaves (B9)	Sphagnum Moss (D8) (LRR T,U)					
Field Observations:						
Surface Water Present? Yes No _X Depth (inches):						
Water Table Present? Yes No X Depth (inches):						
Saturation Present? Yes No X Depth (inches):	Wetland Hydrology Present? Yes No _X					
(includes capillary fringe)	and the state of t					
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pr	revious inspections), if available:					
Remarks:						

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

ee Stratum (Plot size: 30 FT)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:		
Pinus taeda	25	Yes	FAC			
Ulmus americana	20	Yes	FAC	Number of Dominant Species That Are OBL, FACW, or FAC:	6	(A
Prunus serotina	5	No	FACU	_	0	(,
			FAC	Total Number of Dominant	7	(D
Acer rubrum		No No		Species Across All Strata:	7	(B
Pyrus calleryana	5	No No	UPL	Percent of Dominant Species	05.70/	/ A
				That Are OBL, FACW, or FAC:	85.7%	(A
				Prevalence Index worksheet:		
				Total % Cover of:	Multiply by:	_
	60	_=Total Cover		· —	=0	_
50% of total cover:	30 20%	% of total cover:	12	FACW species 0 x 2		_
oling/Shrub Stratum (Plot size: 20 ft	_)			FAC species 80 x 3	= 240	_
Pinus taeda	5	Yes	FAC	FACU species 25 x 4	= 100	
Liquidambar styraciflua	10	Yes	FAC	UPL species 5 x 5	= 25	
Morella cerifera	5	Yes	FAC	Column Totals: 110 (A)	365	
				Prevalence Index = B/A =	3.32	
				Hydrophytic Vegetation Indicato	rs:	
				1 - Rapid Test for Hydrophytic	Vegetation	
				X 2 - Dominance Test is >50%	· ·	
	-			3 - Prevalence Index is ≤3.0 ¹		
-	20	=Total Cover		Problematic Hydrophytic Vege	station ¹ (Evolai)	n)
50% of total cover:	-	6 of total cover:	4	- 1 Toblematic Hydrophytic Vege	tation (Explain	,
b Stratum (Plot size: 20 ft) Vitis aestivalis	20	Yes	FACU	¹ Indicators of hydric soil and wetla	nd hydrology m	nus
Toxicodendron radicans	10	Yes	FAC	present, unless disturbed or proble	ematic.	
				Definitions of Four Vegetation S	trata:	
				Tree - Woody plants, excluding vi	nes, 3 in. (7.6 d	cm
				more in diameter at breast height height.	(DBH), regardle	ess
				Sapling/Shrub – Woody plants, e than 3 in. DBH and greater than 3.		
				Herb – All herbaceous (non-woody of size, and woody plants less that	,	rdle
	- ——					
	30	_=Total Cover		Woody Vine – All woody vines gre	eater than 3.28	ft
				I height		
50% of total cover:	15 20%	% of total cover:	6	height.		
	15 20%	% of total cover:	6	neight.		
		% of total cover:	6	Tolgit.		
oody Vine Stratum (Plot size:)		% of total cover:	6	noight.		
oody Vine Stratum (Plot size:)		% of total cover:	6	noight.		
oody Vine Stratum (Plot size:)		% of total cover:	6	Tolgit.		
pody Vine Stratum (Plot size:)		% of total cover:	6			
pody Vine Stratum (Plot size:)			6	Hydrophytic		
oody Vine Stratum (Plot size:)		% of total cover: =Total Cover % of total cover:	6	Hydrophytic Vegetation	No	

SOIL Sampling Point: TC_W_005_UP

	ription: (Describe t	o the dept				tor or co	onfirm the abse	nce of indi	icators.)		
Depth	Matrix			k Featur		. 2	_				
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture		Remarks		
0-8	7.5YR 5/3	100					Sandy		SANDY LOAM		
¹Type: C=Co	oncentration, D=Depl	etion PM-I	Peduced Matrix M		ked Sand		² l ocati	n: PI –Pc	ore Lining, M=Matrix.		
	ndicators: (Applica					d Grains.			oblematic Hydric Soi	ls ³ ·	
Histosol			Thin Dark Su			S. T. U)			(9) (LRR O)		
	pipedon (A2)		Barrier Island	•	, .				(10) (LRR S)		
Black His			(MLRA 15		,	/		•	Redox (A16)		
	n Sulfide (A4)		Loamy Muck			RR O)			LRA 150A)		
	Layers (A5)		Loamy Gleye	ed Matri	x (F2)	,	Re	duced Ver	tic (F18)		
X Organic	Bodies (A6) (LRR, P	T, U)	Depleted Ma	trix (F3))			outside M	LRA 150A, 150B)		
5 cm Mu	cky Mineral (A7) (LR	R P, T, U)	Redox Dark	Surface	(F6)		Pie	dmont Flo	odplain Soils (F19) (LF	RR P, T)	
Muck Pre	esence (A8) (LRR U)		Depleted Da	rk Surfa	ce (F7)		An	omalous B	right Floodplain Soils ((F20)	
1 cm Mu	ck (A9) (LRR P, T)		Redox Depre	essions	(F8)		(MLRA 153	B)		
Depleted	Below Dark Surface	(A11)	Marl (F10) (L	.RR U)			Re	d Parent M	Naterial (F21)		
	rk Surface (A12)		Depleted Oc					•	Dark Surface (F22)		
	airie Redox (A16) (M	•							LRA 138, 152A in FL,	,	
	lucky Mineral (S1) (L	RR O, S)	Umbric Surfa						ls Low Chroma Matrix	(TS7)	
	leyed Matrix (S4)		Delta Ochric					MLRA 153			
	edox (S5)		Reduced Ver	,			· —	ner (Explaii	n in Remarks)		
	Matrix (S6)	T 11)	Piedmont Flo								
	face (S7) (LRR P, S, e Below Surface (S8)		Anomalous E	-				diantora of	hydrophytic vegetation	a and	
	e below Surface (So, S, T, U))	(MLRA 14 Very Shallow						drology must be prese		
(LIXIX)	3, 1, 0)		(MLRA 13				unless disturbed or problematic.				
Poetrictivo I	_ayer (if observed):		(2.17.10	o, 1027		.,			arboa or problematic.		
	RESTRICTIVE LAYE	R AT 6									
-							United at Carlo		V V N-		
Depth (in	icnes):	6					Hydric Soil P	resent?	Yes X No		
Remarks:											

Photograph Log

Date: 6/10/22 Feature ID: TC_W_005_UP



Photograph Number ____1

Photograph Direction North

Comments:



Photograph Number ____2

Photograph Direction East

Comments:



Photograph Number ___3

Photograph Direction South

Comments:



Photograph Number ____4___

Photograph Direction West

Comments:

APPENDIX E: PREVIOUS DELINEATION REPORTS

Appendix E-1: NAO-2021-0371 VEPCO PJD Appendix E-2: NAO-2018-01177 Bedford AJD APPENDIX E-1: NAO-2021-0371 VEPCO PJD

Wetland Delineation Report Site Information Summary

Fentress Substation - Coastal Virginia Offshore Wind Transmission Project Parcels 061000000952, 0610000000954, and 0610000000955 (46.5-acres; VEPCO)

City of Chesapeake, Virginia

Date

December 14, 2020

Latitude/ Longitude in Decimal Degrees using coordinate plane (NAD 1983) 36.690918, -76.190173

Has a previous delineation or JD been performed? If so please provide USACE **Project Number:** Unknown

Hydrologic Unit Code (HUC) 8-Digit HUC - 03010205

USGS Topographic Sheet

Fentress Quadrangle

Nearest Waterbody (example given)

Unnamed tributary to Pocaty River is located approximately 850 feet to the south.

Delineation Methods

Wetlands were delineated utilizing the 1987 United States Army Corps of Engineers (USACE) Wetlands Delineation Manual (Manual), the Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Atlantic and Gulf Coastal Plain Region (2nd Edition), and per recent guidance issued jointly by the U.S. Environmental Protection Agency and the USACE known as the Navigable Waters Protection Rule. Plant indicators were searched using the USDA NRCS Wetland Indicator Status Search tool at plants.usda.gov/core/wetlandsearch.

On-Site Investigation Date

Wetland boundary delineation and site data collection conducted on October 29, 30, and November 2, 2020.

Wetland Delineation Plan

The proposed wetland boundaries and Data Sampling Point locations are depicted on the attached Figure 7.

Wetland Investigation Results

Wetlands: Wetlands identified at the Site consist of approximately 16.31-acres of palustrine forested (PFO) wetlands and 2.86-acres of palustrine emergent (PEM) wetlands. Additional information is found in the attached Wetland Delineation Memo, dated November 6, 2020 and on the attached maps.

Stream Channels: No streams were identified within the project area.

Other Waters: Jurisdictional ditches totaling approximately 1,175 feet are located centrally along the edges of the existing developed substation and immediately adjacent to delineated wetlands at the Site. Additional information is found in the attached Wetland Delineation Memo, dated November 6, 2020 and on the attached maps.

Water bodies onsite identified as Section 10: No Section 10 waters were identified within the project area.

Uplands: The remainder of the project area was determined to be uplands. Please refer to the attached upland data forms and attached maps.

100-Year Floodplains

As depicted on the Federal Emergency Management Agency's (FEMA) on-line Flood Insurance Rate Maps # 5100340052D and 5100340053D, effective date 12/16/2014 the subject property lies in an area of minimal flood hazard (Zone X).

National Wetlands Inventory

The on-line National Wetland Inventory identifies PFO and PEM wetlands within the subject property as shown on the attached Figure 6.

USDA Soil Survey

The on-line USDA Natural Resource Conservation Service Soil Survey data for the Site is included and shown on Figure 2.



919 East Main Street Suite 1701 Richmond, VA 23219 Telephone: +1 (804) 253 1090 Fax: +1 (804) 253 1091

www.erm.com

Memo



То	Bob Bisha
From	Paul Leeger, Pat Robblee, Jon Berkin
Date	November 6, 2020
Reference	Coastal Virginia Offshore Wind Project
Subject	Wetland Delineation at Fentress Substation Property

Environmental Resources Management (ERM) conducted a wetland delineation at Dominion Energy Virginia's Fentress Substation property, which encompasses approximately 46.5-acres off Fentress Loop in the City of Chesapeake, Virginia. The portion of the parcel developed as an existing substation was not included in the delineation. The remainder of the parcel (the Site) consists of approximately 34.8-acres of forested land, maintained utility easements, and gravel access roads. The Site occurs within City of Chesapeake tax parcel 0610000000952. Access to the Site is via a gravel access road from Fentress Loop and through a city park along an existing transmission line easement. An aerial based map depicting the Site and results and select photos of the survey area are attached.

PROPERTY DESCRIPTION

The Site is in the Coastal Plain Province in Virginia's Tidewater region. The survey area consists of approximately 27.0-acres of mixed mature deciduous-coniferous forest and 7.8-acres of maintained easements adjacent to and surrounding the existing Fentress Substation. The Site also includes a network of excavated drainage ditches intended to improve drainage over the relatively flat landscape and a gravel access road. The forested areas are dominated by swamp chestnut oak (Quercus michauxii), loblolly pine (*Pinus taeda*), red maple (*Acer rubrum*), and sweetgum (*Liquidambar styraciflua*). The maintained easements are dominated by herbaceous plants including giant goldenrod (Solidago gigantea), sawtooth blackberry (*rubus argutus*), broomsedge bluestem (*Andropogon virginicus*), and spotted ladysthumb (*Polygonum persicaria*).

The Site falls on the U.S. Geological Survey (USGS) 7.5-minute topographic quadrangle map Fentress, Virginia. The Site is largely located within the Albemarle watershed (Watershed Unit: 03010205).

METHODOLOGY

Waters of the U.S., including wetlands, are federally protected under Section 404 of the Clean Water Act (CWA). The definition of a wetland is "those areas that are inundated or saturated by surface or groundwater at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions. Wetlands generally include swamps, marshes, bogs and similar areas" (Code of Federal Regulations §230.3(t)).



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ERM identified and delineated wetlands and waters of the U.S. at the Site on October 28, 30, and November 2, 2020, in accordance with the three-parameter methodology outlined in the 1987 United States Army Corps of Engineers (USACE) Wetlands Delineation Manual (Manual), the Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Atlantic and Gulf Coastal Plain Region, and per recent guidance issued jointly by the U.S. Environmental Protection Agency and the USACE known as the Navigable Waters Protection Rule.

An area is classified as a wetland based on the following three parameters as determined in the above references:

- The presence of hydrophytic vegetation Hydrophytic vegetation is determined by the dominant species present at any given data point, where each species is assigned a plant indicator status as to its preference/tolerance for wetland conditions. Data points having dominant species that are greater than 50 percent facultative or wetter are considered to meet the hydrophytic vegetation criterion.
- The presence of hydrology Each data point is evaluated for evidence of wetland hydrology or persistent saturation or inundation of soils. The Manual identifies both primary and secondary hydrologic indicators. One primary indicator or two secondary indicators must be observed for a sample point to meet the hydrology criterion. Indicators include saturated soils in the upper 12 inches, inundation, water marks, drift lines, sediment deposits, drainage patterns, oxidized root channels in the upper 12 inches, water-stained leaves, local soil survey data, and others.
- The presence of hydric soils Soil in each sample plot is sampled with a soil spade to a depth of at least 18 inches, or to the B horizon, whichever appears first. The delineator obtains a profile description and identifies hydric soil indicators based on soil texture(s) and soil color(s). Soil textures are determined by manual tactile sampling. Soil colors (in a moist condition) are compared to Munsell Soil-Color charts (2009 Edition, 2015 production year, Munsell Color, Grand Rapids, MI, USA) to assess hue, value, and chroma to determine if hydric characteristics are present.

To identify wetlands and waters within the Site, the area was traversed on foot. Data points were taken within the Site to verify or refute the presence of wetland soils, vegetation, and hydrology.

ERM utilized a Trimble GeoXT Global Positioning System to obtain coordinates for the wetland data points, wetland boundaries, and waterbody boundaries. This unit is capable of sub-meter accuracy (following post-processing and differential correction via a known base station) and allows the digital data to be incorporated into drawings for mapping/design purposes.

FINDINGS AND CONCLUSION

The field-based delineation identified approximately 19.17-acres of riparian wetlands and approximately 1,175 feet of presumed jurisdictional ditches within the Site (Figure 1). Wetlands identified at the Site consist of approximately 16.31-acres of palustrine forested (PFO) wetlands and 2.86-acres of palustrine emergent (PEM) wetlands as classified under the Cowardin Classification System. These features are all presumed to be jurisdictional with the USACE and the Virginia Department of Environmental Quality (DEQ).



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Common vegetation in the PFO wetlands includes swamp chestnut oak (Quercus michauxii), loblolly pine (*Pinus taeda*), red maple (*Acer rubrum*), sweetgum (*Liquidambar styraciflua*), sweetbay (Magnolia virginiana), giant cane (Arundinaria gigantea), and sensitive fern (*Onoclea sensibilis*). Common vegetation in the PEM wetlands includes giant goldenrod (Solidago gigantea), broomsedge bluestem (Andropogon virginicus), spotted ladysthumb (Polygonum persicaria). Soils in these wetlands exhibited multiple hydric soil indicators including: depleted below dark surface (A11), thick dark surface (A12), depleted matrix (F3), and redox dark surface (F6). Hydrology was evident in the oxidized rhizospheres in living roots, geomorphic position, FAC-neutral test, and saturated soils.

Although these findings were based upon a survey utilizing USACE-approved protocols, the USACE (Norfolk District) must make the official determinations on the presence or absence of jurisdictional wetlands and waterbodies on the Site through the jurisdictional determination process.

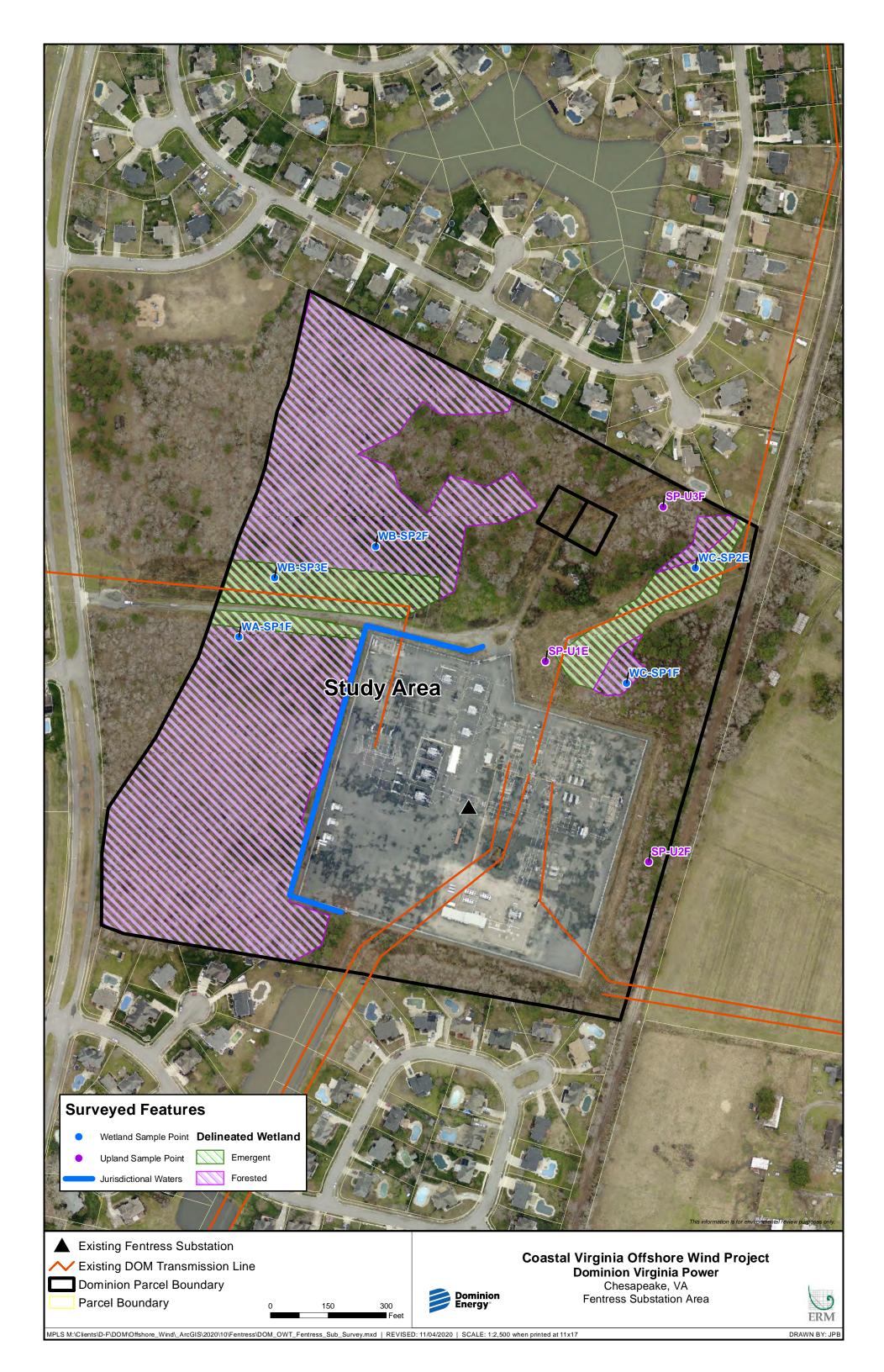




Photo 1: View looking east at palustrine forested (PFO) wetlands at the Site from wetland data point WA-SP1F.



Photo 2: View looking north at PFO wetlands at the Site from wetland data point WB-SP2F.





Photo 3: View looking north at palustrine emergent (PEM) wetlands at the Site from wetland data point WB-SP3E.



Photo 4: View looking west at PFO wetlands at the Site from wetland data point WB-SP2F.





Photo 5: View looking northeast at palustrine emergent (PEM) wetlands at the Site from wetland data point WC-SP2E.



Photo 6: View looking northeast at upland forest from data point SP-U2F.



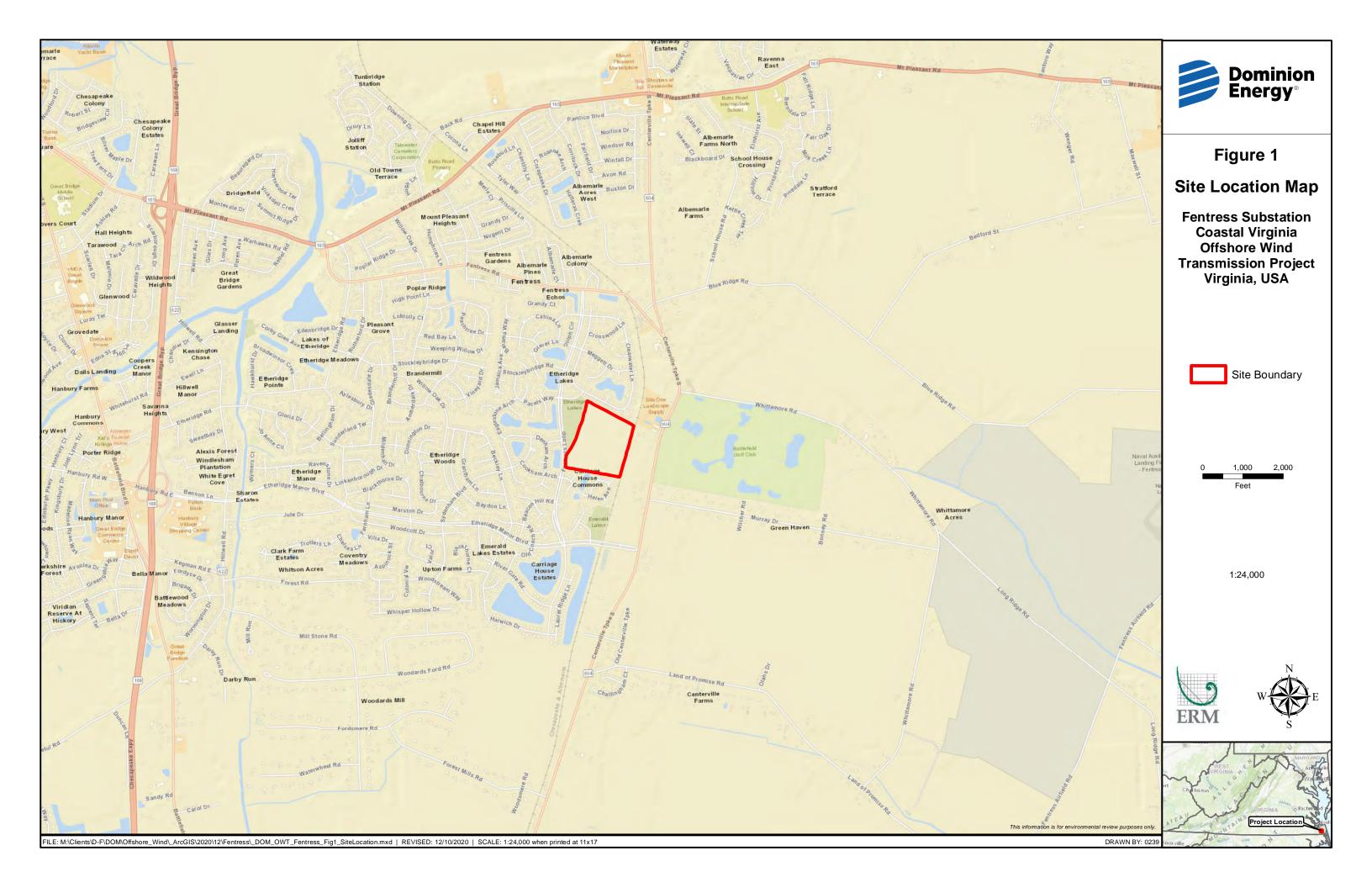


Photo 7: View of upland maintained easement north of the existing Fentress substation from upland data point SP-U1E.



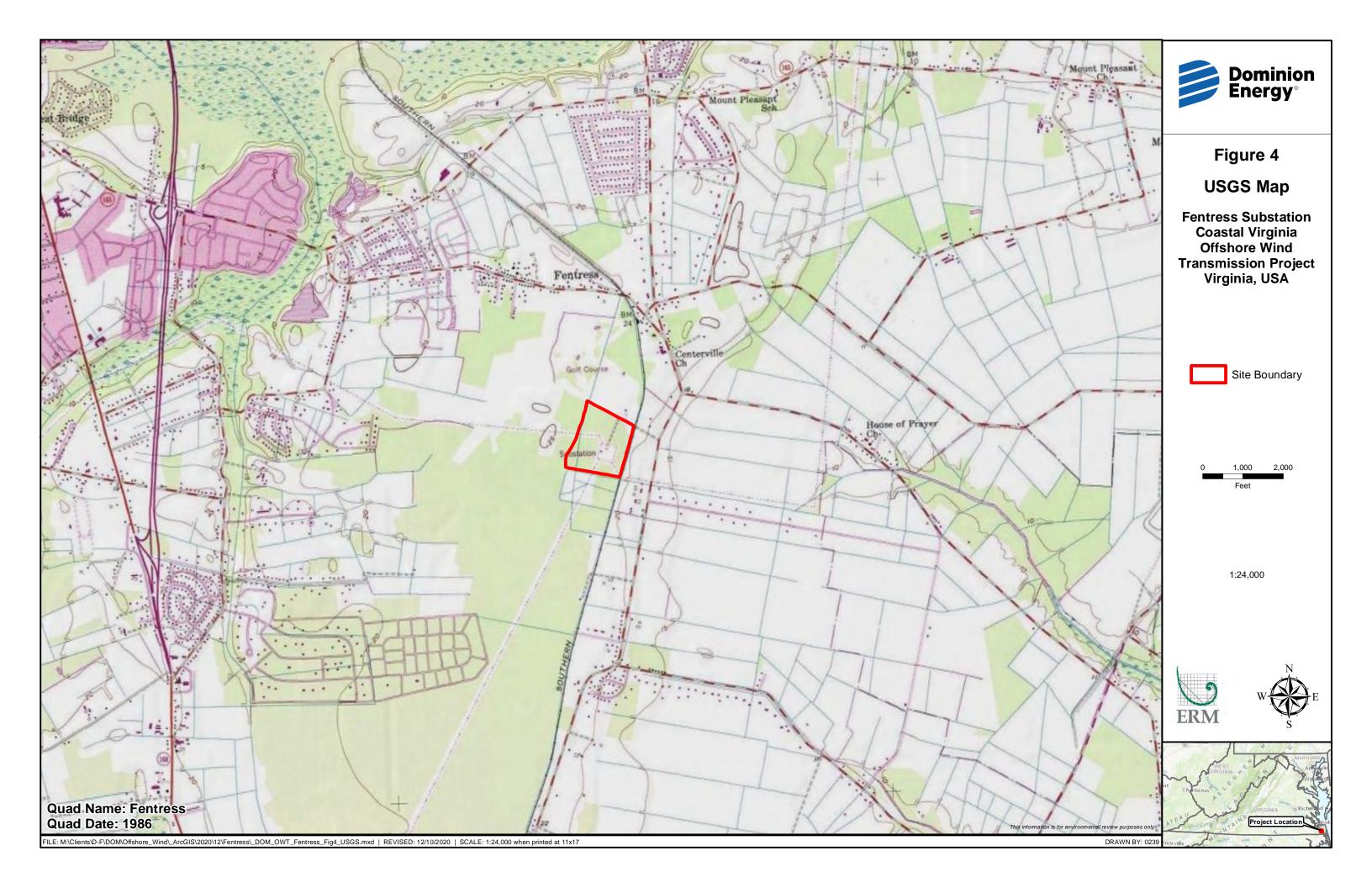
Photo 8: View looking north at upland forest from data point SP-U3F.

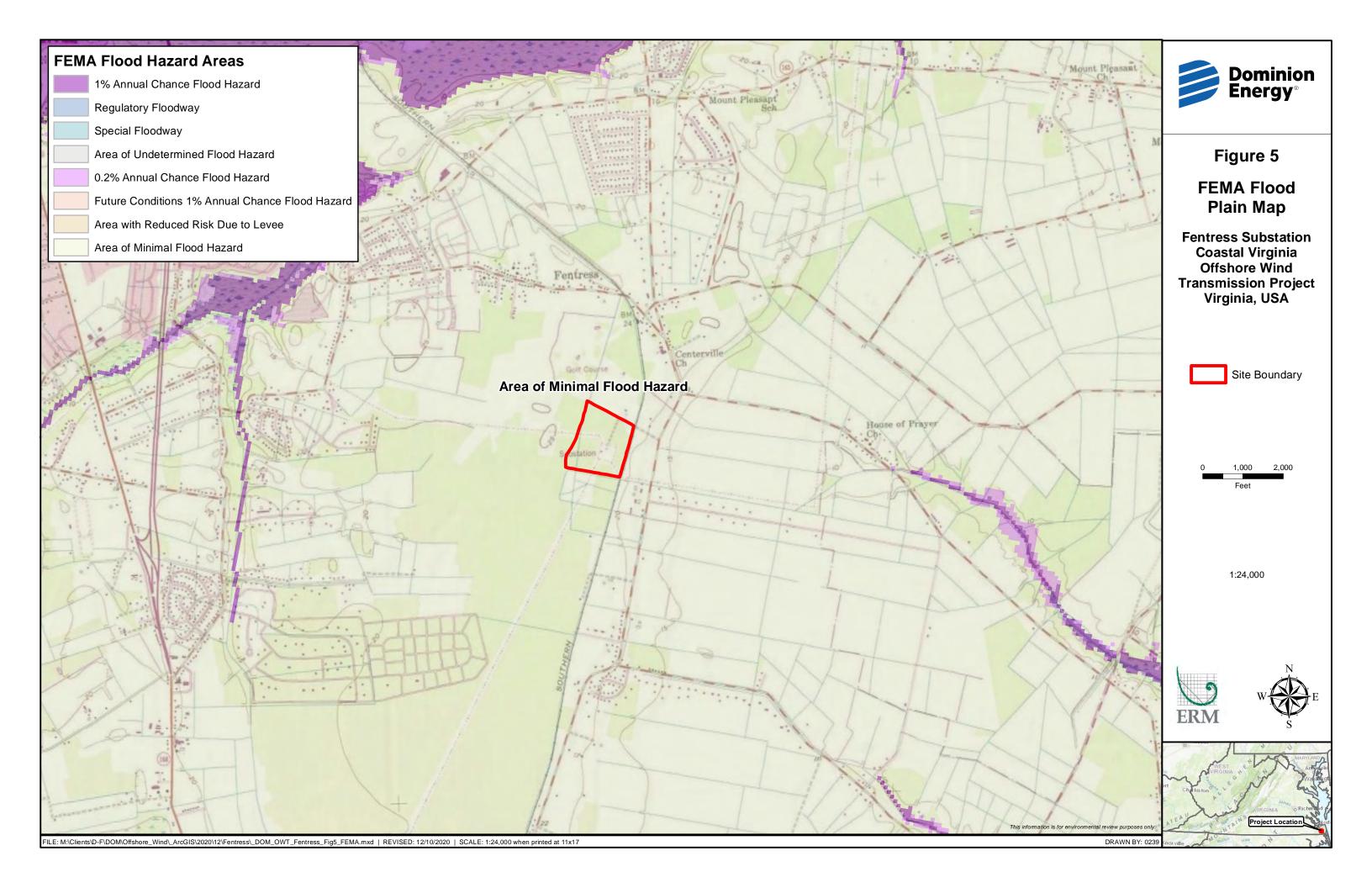
















WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: Fentress Substation Property	City/County: City o	f Chesapeake	Sampling Date: 10/30/2020			
Applicant/Owner: Dominion Energy Services		State: VA	Sampling Date: 10/30/2020 Sampling Point: WA-SP1F			
Investigator(s): Paul Leeger, Heather Mitchell		Range:	Camping Forms			
Landform (hillslope, terrace, etc.): Marine Terrace		e, convex, none): none	Slane (9/): 0			
Subregion (LRR or MLRA): T153A La			Datum: WGS84			
Soil Map Unit Name: Acredale Silt Loam		NWI classific				
Are climatic / hydrologic conditions on the site typical for this			/			
Are Vegetation, Soil, or Hydrology signature.	gnificantly disturbed? A	re "Normal Circumstances" p	present? Yes _ 🗸 _ No			
Are Vegetation, Soil, or Hydrology na	aturally problematic? (If	needed, explain any answe	rs in Remarks.)			
SUMMARY OF FINDINGS - Attach site map s	howing sampling poin	t locations, transects	, important features, etc.			
Lhydraphytic Voquetation Draggat?						
Hydrophytic Vegetation Present? Yes _ ✓ No Hydric Soil Present? Yes _ ✓ No	is the Samp	led Area	•			
Wetland Hydrology Present? Yes ✓ No		tland? Yes <u>Y</u>	No			
Remarks:						
HYDROLOGY						
Wetland Hydrology Indicators:		Secondary Indica	ators (minimum of two required)			
Primary Indicators (minimum of one is required; check all the	nat annly)					
Surface Water (A1) Aquatic F		Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8)				
	osits (B15) (LRR U)	Drainage Pa				
	n Sulfide Odor (C1)	Moss Trim L				
	Rhizospheres along Living Ro		Water Table (C2)			
	e of Reduced Iron (C4)	Crayfish Burrows (C8)				
Drift Deposits (B3) Recent Ir	on Reduction in Tilled Soils (C					
Algal Mat or Crust (B4) Thin Muc	k Surface (C7)	✓ Geomorphic Position (D2)				
	xplain in Remarks)	Shallow Aquitard (D3)				
Inundation Visible on Aerial Imagery (B7)		✓ FAC-Neutral Test (D5)				
Water-Stained Leaves (B9)		Sphagnum n	noss (D8) (LRR T, U)			
Field Observations: Surface Water Present? Yes No _ ✓ _ Depr	th (inches):					
Water Table Present? Yes No _ ✓ _ Dept						
Saturation Present? Yes No _ ✓ Depr		Wetland Hydrology Preser	nt? Yes V No			
(includes capillary fringe)			103 100			
Describe Recorded Data (stream gauge, monitoring well, a	erial photos, previous inspection	ons), if available:				
Remarks:						

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

50% of total cover: 37

Tree Stratum (Plot size: 30 ft

Sapling Stratum (Plot size: 30 ft 1. Liquidambar styraciflua

Shrub Stratum (Plot size: 30 ft 1 Liquidambar styraciflua

Herb Stratum (Plot size: 30 ft)

2. Magnolia virginiana

3. Quercus rubra

2. Acer rubrum

1. Arundinaria gigantea

Quercus michauxii

Pinus taeda

Acer rubrum

Quercus alba

5. Quercus rubra

50% of total cover: ⁹ 20% of total cover: ⁴

50% of total cover: 15 20% of total cover: 6

40 Yes

nes of pla	ants.		Sampling Point: WA-SP1F
Absolute	Dominant	Indicator	Dominance Test worksheet:
	Species?		Number of Dominant Species
30	Yes	FACW	That Are OBL, FACW, or FAC: 10 (A)
20	Yes	FAC	Total Number of Dominant
20	Yes	FAC	Species Across All Strata: 10 (B)
2	No	FACU	Percent of Dominant Species
2	No	FACU	That Are OBL, FACW, or FAC: 100 (A/B)
74	= Total Cov	er	Prevalence Index worksheet:
20% of	total cover:	15	Total % Cover of: Multiply by:
			OBL species 0 x 1 =
10	Yes	FAC	FACW species 3 $x 2 = 20$
5	Yes	FACW	FAC species 125 x 3 = 375
3	No	FACU	FACU species $\frac{5}{}$ $x 4 = \frac{20}{}$
	110	17100	UPL species 0 x 5 =
			Column Totals: 133 (A) 415 (B)
18	T-1-10		Prevalence Index = B/A = 2.96
·	= Total Cov		Hydrophytic Vegetation Indicators:
20% of	total cover:	4	1 - Rapid Test for Hydrophytic Vegetation
00			2 - Dominance Test is >50%
20	Yes	FAC	3 - Prevalence Index is ≤3.0¹
10	Yes	FAC	Problematic Hydrophytic Vegetation ¹ (Explain)
			¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Definitions of Five Vegetation Strata:
30	= Total Cov	or	Definitions of Five vegetation Strata.
	total cover:		Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).
40	Yes	FACW	Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.
			Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.
			Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, <u>and</u> woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
			Woody vine – All woody vines, regardless of height.
	= Total Cov total cover:		
5	Vaa	FAC	
5	Yes Yes	FAC FAC	
	163	. 10	
			Hydrophytic
10	= Total Cov	er	Visite de la constante de la c
 20% of	total cover:	2	Present? Yes No No

Remarks:	(If observed, list morphological adaptations below).

Woody Vine Stratum (Plot size: 30 ft)

50% of total cover: 0

50% of total cover: 5

1. Smilax rotundifolia

2. Vitis rotundifolia

SOIL Sampling Point: WA-SP1F

		e to the dep	th needed to docur			or confirm	n the absence	e of indicators.)
Depth (inches)	Matrix Color (moist)	%	Color (moist)	x Feature %	es Type ¹	Loc ²	Texture	Remarks
0-4	10 YR 2/1	100					Silt Loam	
4-7	10 YR 4/1	100		-			Loam	ORs
7-20	10 YR 4/1	90	10 YR 4/6	10	C	PL	SCL	
								·
<u></u>					-			
	-				<u> </u>		-	- <u> </u>
				-		. .		·
								·
			Reduced Matrix, MS			rains.		: PL=Pore Lining, M=Matrix.
-		icable to all	LRRs, unless other		•			s for Problematic Hydric Soils ³ :
Histosol	(A1) pipedon (A2)		Polyvalue Be Thin Dark Su					Muck (A9) (LRR O) Muck (A10) (LRR S)
	istic (A3)		Loamy Muck					ced Vertic (F18) (outside MLRA 150A,B)
	en Sulfide (A4)		Loamy Gleye			,		nont Floodplain Soils (F19) (LRR P, S, T)
	d Layers (A5)		✓ Depleted Ma	. ,				nalous Bright Loamy Soils (F20)
-	Bodies (A6) (LRR		Redox Dark	,	,			LRA 153B)
l '	ucky Mineral (A7) (I resence (A8) (LRR		Depleted Date Redox Depre		, ,			Parent Material (TF2) Shallow Dark Surface (TF12)
l '	uck (A9) (LRR P, T)	•	Marl (F10) (L		0)			r (Explain in Remarks)
	d Below Dark Surfa		Depleted Oc	hric (F11				
	ark Surface (A12)		Iron-Mangan					icators of hydrophytic vegetation and
	rairie Redox (A16) Mucky Mineral (S1)		A) Umbric Surfa Delta Ochric					etland hydrology must be present, lless disturbed or problematic.
-	Gleyed Matrix (S4)	(LIXIX 0, 3)	Reduced Ver					ness disturbed of problematic.
	Redox (S5)		Piedmont Flo					
	d Matrix (S6)		Anomalous E	Bright Loa	amy Soils	(F20) (MLF	RA 149A, 1530	C, 153D)
	rface (S7) (LRR P,							
	Layer (if observed							
Type: Depth (in	ches):						Hydric Soi	il Present? Yes V
Remarks:	ones).						Tiyano oo	in resent. Tes No
rtomano.								

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: Fentress Substation Property	City/County: City of Chesapeake Sampling Date: 10/30/2020 State: VA Sampling Point: WA-SP1F						
Applicant/Owner: Dominion Energy Services		State: VA	Sampling Point: WA-SP1F				
Investigator(s): Paul Leeger, Heather Mitchell		Section, Township, Range:					
	Local relief (concave, co	-	Slone (%): 0				
Subregion (LRR or MLRA): T153A La		76.192490	Slope (70)				
Soil Map Unit Name: Acredale Silt Loam	:: <u></u> L(.ong:	PFO				
	/	NWI classific					
Are climatic / hydrologic conditions on the site typical for this			/				
Are Vegetation, Soil, or Hydrology sig			oresent? Yes _ V No				
Are Vegetation, Soil, or Hydrology na	turally problematic? (If nee	eded, explain any answe	rs in Remarks.)				
SUMMARY OF FINDINGS - Attach site map s	howing sampling point lo	ocations, transects	, important features, etc.				
Hydrophytic Vegetation Present? Hydric Soil Present? Yes ✓ No Yes ✓ No Wetland Hydrology Present? Yes ✓ No	within a Wetland		, No				
Wetland Hydrology Present? Yes ✓ No Remarks:							
HYDROLOGY							
Wetland Hydrology Indicators:		Secondary Indica	tors (minimum of two required)				
Primary Indicators (minimum of one is required; check all the	at apply)		Surface Soil Cracks (B6)				
Surface Water (A1) Aquatic F			Sparsely Vegetated Concave Surface (B8)				
	osits (B15) (LRR U)	Drainage Pa					
	Sulfide Odor (C1)	Moss Trim Li					
Water Marks (B1) ✓ Oxidized	Rhizospheres along Living Roots	(C3) Dry-Season	Water Table (C2)				
Sediment Deposits (B2) Presence	of Reduced Iron (C4)	Crayfish Bur	rows (C8)				
Drift Deposits (B3) Recent Iro	on Reduction in Tilled Soils (C6)	Saturation Vi	sible on Aerial Imagery (C9)				
Algal Mat or Crust (B4) Thin Mucl	k Surface (C7)	✓ Geomorphic	Position (D2)				
	plain in Remarks)	Shallow Aquitard (D3)					
Inundation Visible on Aerial Imagery (B7)		✓ FAC-Neutral Test (D5)					
Water-Stained Leaves (B9)		Sphagnum n	noss (D8) (LRR T, U)				
Field Observations:							
Surface Water Present? Yes No _ ✓ Dept							
Water Table Present? Yes No _ ✓ Dept							
Saturation Present? Yes No ✓ Dept (includes capillary fringe)	n (inches): Wet	tland Hydrology Preser	t? Yes <u>▼</u> No				
Describe Recorded Data (stream gauge, monitoring well, as	rial photos, previous inspections)), if available:					
Remarks:							

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

50% of total cover: 37

Tree Stratum (Plot size: 30 ft

Sapling Stratum (Plot size: 30 ft 1. Liquidambar styraciflua

Shrub Stratum (Plot size: 30 ft 1 Liquidambar styraciflua

Herb Stratum (Plot size: 30 ft)

2. Magnolia virginiana

3. Quercus rubra

2. Acer rubrum

1. Arundinaria gigantea

Quercus michauxii

Pinus taeda

Acer rubrum

Quercus alba

5. Quercus rubra

50% of total cover: ⁹ 20% of total cover: ⁴

50% of total cover: 15 20% of total cover: 6

40 Yes

nes of pla	ants.		Sampling Point: WA-SP1F				
Absolute	Dominant	Indicator	Dominance Test worksheet:				
	Species?		Number of Dominant Species				
30	Yes	FACW	That Are OBL, FACW, or FAC: 10 (A)				
20	Yes	FAC	Total Number of Dominant				
20	Yes	FAC	Species Across All Strata: 10 (B)				
2	No	FACU	Percent of Dominant Species				
2	No	FACU	That Are OBL, FACW, or FAC: 100 (A/B)				
74	= Total Cov	er	Prevalence Index worksheet:				
	total cover:		Total % Cover of: Multiply by:				
			OBL species 0 x 1 =				
10	Yes	FAC	FACW species 3 $x 2 = 20$				
5	Yes	FACW	FAC species 125 x 3 = 375				
3	No	FACU	FACU species $\frac{5}{}$ $x 4 = \frac{20}{}$				
	110	17100	UPL species 0 x 5 =				
			Column Totals: <u>133</u> (A) <u>415</u> (B)				
18	T-1-10		Prevalence Index = B/A = 2.96				
·	= Total Cov		Hydrophytic Vegetation Indicators:				
20% of	total cover:		1 - Rapid Test for Hydrophytic Vegetation				
20	V		2 - Dominance Test is >50%				
20	Yes	FAC	3 - Prevalence Index is ≤3.0 ¹				
10	Yes	FAC	Problematic Hydrophytic Vegetation ¹ (Explain)				
			¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Definitions of Five Vegetation Strata:				
30	Total Cov	or	Definitions of Five vegetation Strata.				
30 = Total Cover 20% of total cover: 6			Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).				
40	Yes	FACW	Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.				
			Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.				
			Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, <u>and</u> woody plants, except woody vines, less than approximately 3 ft (1 m) in height.				
			Woody vine – All woody vines, regardless of height.				
	= Total Cov total cover:						
5	Vaa	FAC					
5	Yes Yes	FAC FAC					
	163	. 10					
			Hydrophytic				
10	= Total Cov	er	Visite de la constante de la c				
 20% of	total cover:	2	Present? Yes No No				

Remarks:	(If observed, list morphological adaptations below).

Woody Vine Stratum (Plot size: 30 ft)

50% of total cover: 0

50% of total cover: 5

1. Smilax rotundifolia

2. Vitis rotundifolia

SOIL Sampling Point: WA-SP1F

Profile Desc	ription: (Describe	to the dep	th needed to docur	nent the	indicator	or confirm	n the absenc	e of indicators.)		
Depth Matrix			x Feature							
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks		
0-4	10 YR 2/1	100		_			Silt Loam			
4-7	10 YR 4/1	100					Loam	ORs		
7-20	10 YR 4/1	90	10 YR 4/6	10	С	PL	SCL			
			-				-			
							-			
1Type: C-Co	ncentration D-Der	oletion RM	=Reduced Matrix, M	S-Masko	– : ad Sand Gr	aine	² l ocation	n: PL=Pore Lining, M=Matrix.		
			LRRs, unless other			airio.		rs for Problematic Hydric Soils ³ :		
Histosol			Polyvalue Be		•	RRSTI		Muck (A9) (LRR O)		
	pipedon (A2)		Thin Dark Su					Muck (A10) (LRR S)		
Black His					al (F1) (LRR O) Reduced Vertic (F18) (outside MLRA 150A,I					
Hydroge	n Sulfide (A4)		Loamy Gleye	ed Matrix	(F2)		Piedr	Piedmont Floodplain Soils (F19) (LRR P, S, T)		
Stratified	Layers (A5)		✓ Depleted Ma	trix (F3)			Anon	nalous Bright Loamy Soils (F20)		
_	Bodies (A6) (LRR F		Redox Dark	,	,			LRA 153B)		
	cky Mineral (A7) (L							Parent Material (TF2)		
	esence (A8) (LRR L	J)	Redox Depre		F8)			Shallow Dark Surface (TF12)		
	ck (A9) (LRR P, T) I Below Dark Surfac	co (Δ11)	Marl (F10) (L Depleted Oc		\ (MI DA 1	51)	Otne	r (Explain in Remarks)		
	rk Surface (A12)	C (ATT)	Iron-Mangan				T) ³ Ind	licators of hydrophytic vegetation and		
		MLRA 150	A) Umbric Surfa				•	etland hydrology must be present,		
	lucky Mineral (S1) (Delta Ochric			,		nless disturbed or problematic.		
Sandy G	leyed Matrix (S4)		Reduced Ve	rtic (F18)	(MLRA 15	0A, 150B)				
	edox (S5)		Piedmont Flo							
	Matrix (S6)		Anomalous E	Bright Loa	amy Soils (F20) (MLR	A 149A, 153	C, 153D)		
	face (S7) (LRR P,									
	.ayer (if observed)):								
Type:										
	ches):						Hydric So	il Present? Yes V No No		
Remarks:										

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: Fentress Substation Property	City/County: City of C	City/County: City of Chesapeake Sampling Date: 10/30/2 State: VA Sampling Point: WA-SP				
Applicant/Owner: Dominion Energy Services		State: VA	Sampling Point: WA-SP1F			
Investigator(s): Paul Leeger, Heather Mitchell		Section, Township, Range: Sampling Fount				
Landform (hillslope, terrace, etc.): Marine Terrace Local relief (concave, convex, none): none Slope (%): 0						
Subregion (LRR or MLRA): T153A Lat: 3	36.692157	-76.192490				
Soil Map Unit Name: Acredale Silt Loam	'	NWI classific	ation: PFO			
	,					
Are climatic / hydrologic conditions on the site typical for this time			/			
Are Vegetation, Soil, or Hydrology signif			oresent? Yes _ 🗸 No			
Are Vegetation, Soil, or Hydrology natura	ally problematic? (If ne	eeded, explain any answe	rs in Remarks.)			
SUMMARY OF FINDINGS - Attach site map sho	wing sampling point le	ocations, transects	, important features, etc.			
Hydrophytic Vegetation Present? Yes ✓ No			,			
Hydric Soil Present? Yes _ ✓ No _ Wetland Hydrology Present? Yes _ ✓ No _		nd? Yes <u>▼</u>	No			
Remarks:						
HYDROLOGY						
Wetland Hydrology Indicators:		Secondary Indica	tors (minimum of two required)			
Primary Indicators (minimum of one is required; check all that a	apply)		Surface Soil Cracks (B6)			
Surface Water (A1) Aquatic Faur			Sparsely Vegetated Concave Surface (B8)			
	s (B15) (LRR U)		Drainage Patterns (B10)			
Saturation (A3) Hydrogen St	ulfide Odor (C1)		Moss Trim Lines (B16)			
Water Marks (B1) Oxidized Rhi	izospheres along Living Roots	s (C3) Dry-Season				
	Reduced Iron (C4)		Crayfish Burrows (C8)			
	Reduction in Tilled Soils (C6)		Saturation Visible on Aerial Imagery (C9)			
Algal Mat or Crust (B4) Thin Muck S	` '		✓ Geomorphic Position (D2)			
Iron Deposits (B5) Other (Expla Inundation Visible on Aerial Imagery (B7)	in in Remarks)	Shallow Aquitard (D3) ✓ FAC-Neutral Test (D5)				
Water-Stained Leaves (B9)		Sphagnum moss (D8) (LRR T, U)				
Field Observations:		<u> </u>	(2.0) (2 1, 0)			
Surface Water Present? Yes No _ ✓ _ Depth (i	nches):					
Water Table Present? Yes No _ ✓ Depth (i						
Saturation Present? Yes No _ ✓ Depth (i	nches): We	Wetland Hydrology Present? Yes No				
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aeria	I photos previous inspections	s) if available:				
Describe Necorded Data (stream gauge, monitoring well, acria	r priotos, previous mapeetions	o, ii avallabic.				
Remarks:						

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

50% of total cover: 37

Tree Stratum (Plot size: 30 ft

Sapling Stratum (Plot size: 30 ft 1. Liquidambar styraciflua

Shrub Stratum (Plot size: 30 ft 1 Liquidambar styraciflua

Herb Stratum (Plot size: 30 ft)

2. Magnolia virginiana

3. Quercus rubra

2. Acer rubrum

1. Arundinaria gigantea

Quercus michauxii

Pinus taeda

Acer rubrum

Quercus alba

5. Quercus rubra

50% of total cover: ⁹ 20% of total cover: ⁴

50% of total cover: 15 20% of total cover: 6

40 Yes

nes of pla	ants.		Sampling Point: WA-SP1F				
Absolute	Dominant	Indicator	Dominance Test worksheet:				
	Species?		Number of Dominant Species				
30	Yes	FACW	That Are OBL, FACW, or FAC: 10 (A)				
20	Yes	FAC	Total Number of Dominant				
20	Yes	FAC	Species Across All Strata: 10 (B)				
2	No	FACU	Percent of Dominant Species				
2	No	FACU	That Are OBL, FACW, or FAC: 100 (A/B)				
74	= Total Cov	er	Prevalence Index worksheet:				
	total cover:		Total % Cover of: Multiply by:				
			OBL species 0 x 1 =				
10	Yes	FAC	FACW species 3 $x 2 = 20$				
5	Yes	FACW	FAC species 125 x 3 = 375				
3	No	FACU	FACU species $\frac{5}{}$ $x 4 = \frac{20}{}$				
	110	17100	UPL species 0 x 5 =				
			Column Totals: <u>133</u> (A) <u>415</u> (B)				
18	T-1-10		Prevalence Index = B/A = 2.96				
·	= Total Cov		Hydrophytic Vegetation Indicators:				
20% of	total cover:		1 - Rapid Test for Hydrophytic Vegetation				
20	V		2 - Dominance Test is >50%				
20	Yes	FAC	3 - Prevalence Index is ≤3.0 ¹				
10	Yes	FAC	Problematic Hydrophytic Vegetation ¹ (Explain)				
			¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Definitions of Five Vegetation Strata:				
30	Total Cov	or	Definitions of Five vegetation Strata.				
30 = Total Cover 20% of total cover: 6			Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).				
40	Yes	FACW	Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.				
			Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.				
			Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, <u>and</u> woody plants, except woody vines, less than approximately 3 ft (1 m) in height.				
			Woody vine – All woody vines, regardless of height.				
	= Total Cov total cover:						
5	Vaa	FAC					
5	Yes Yes	FAC FAC					
	163	. 10					
			Hydrophytic				
10	= Total Cov	er	Visite de la constante de la c				
 20% of	total cover:	2	Present? Yes No No				

Remarks:	(If observed, list morphological adaptations below).

Woody Vine Stratum (Plot size: 30 ft)

50% of total cover: 0

50% of total cover: 5

1. Smilax rotundifolia

2. Vitis rotundifolia

SOIL Sampling Point: WA-SP1F

Profile Desc	ription: (Describe	to the dep	th needed to docur	nent the	indicator	or confirm	n the absenc	e of indicators.)		
Depth Matrix			x Feature							
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks		
0-4	10 YR 2/1	100		_			Silt Loam			
4-7	10 YR 4/1	100					Loam	ORs		
7-20	10 YR 4/1	90	10 YR 4/6	10	С	PL	SCL			
			-				-			
							-			
1Type: C-Co	ncentration D-Der	oletion RM	=Reduced Matrix, M	S-Masko	– : ad Sand Gr	aine	² l ocation	n: PL=Pore Lining, M=Matrix.		
			LRRs, unless other			airio.		rs for Problematic Hydric Soils ³ :		
Histosol			Polyvalue Be		•	RRSTI		Muck (A9) (LRR O)		
	pipedon (A2)		Thin Dark Su					Muck (A10) (LRR S)		
Black His					al (F1) (LRR O) Reduced Vertic (F18) (outside MLRA 150A,I					
Hydroge	n Sulfide (A4)		Loamy Gleye	ed Matrix	(F2)		Piedr	Piedmont Floodplain Soils (F19) (LRR P, S, T)		
Stratified	Layers (A5)		✓ Depleted Ma	trix (F3)			Anon	nalous Bright Loamy Soils (F20)		
_	Bodies (A6) (LRR F		Redox Dark	,	,			LRA 153B)		
	cky Mineral (A7) (L							Parent Material (TF2)		
	esence (A8) (LRR L	J)	Redox Depre		F8)			Shallow Dark Surface (TF12)		
	ck (A9) (LRR P, T) I Below Dark Surfac	co (Δ11)	Marl (F10) (L Depleted Oc		\ (MI DA 1	51)	Otne	r (Explain in Remarks)		
	rk Surface (A12)	C (ATT)	Iron-Mangan				T) ³ Ind	licators of hydrophytic vegetation and		
		MLRA 150	A) Umbric Surfa				•	etland hydrology must be present,		
	lucky Mineral (S1) (Delta Ochric			,		nless disturbed or problematic.		
Sandy G	leyed Matrix (S4)		Reduced Ve	rtic (F18)	(MLRA 15	0A, 150B)				
	edox (S5)		Piedmont Flo							
	Matrix (S6)		Anomalous E	Bright Loa	amy Soils (F20) (MLR	A 149A, 153	C, 153D)		
	face (S7) (LRR P,						1			
	.ayer (if observed)):								
Type:										
	ches):						Hydric So	il Present? Yes V No No		
Remarks:										

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: Fentress Substation Property	City/County: City of Ch	hesapeake	Sampling Date: 10/30/2020			
Applicant/Owner: Dominion Energy Services	City/County: City of Ch	State: VA	Sampling Point: WA-SP1F			
Investigator(s): Paul Leeger, Heather Mitchell	Section, Township, Ran					
	-	Slope (%): 0				
Subregion (LRR or MLRA): T153A La		76.192490	Slope (70)			
Soil Map Unit Name: Acredale Silt Loam	:: <u></u>	.ong:	PFO			
	/	NWI classific				
Are climatic / hydrologic conditions on the site typical for this			/			
Are Vegetation, Soil, or Hydrology sig			oresent? Yes _ V No			
Are Vegetation, Soil, or Hydrology na	turally problematic? (If nee	eded, explain any answe	rs in Remarks.)			
SUMMARY OF FINDINGS - Attach site map s	howing sampling point lo	ocations, transects	, important features, etc.			
Hydrophytic Vegetation Present? Hydric Soil Present? Yes ✓ No Yes ✓ No Wetland Hydrology Present? Yes ✓ No	within a Wetland		, No			
Wetland Hydrology Present? Yes ✓ No Remarks:						
HYDROLOGY						
Wetland Hydrology Indicators:		Secondary Indica	tors (minimum of two required)			
Primary Indicators (minimum of one is required; check all the	at apply)	Surface Soil				
Surface Water (A1) Aquatic F			Sparsely Vegetated Concave Surface (B8)			
	osits (B15) (LRR U)		Drainage Patterns (B10)			
	Sulfide Odor (C1)	Moss Trim Li				
Water Marks (B1) ✓ Oxidized	Rhizospheres along Living Roots	(C3) Dry-Season	Dry-Season Water Table (C2)			
Sediment Deposits (B2) Presence	of Reduced Iron (C4)	Crayfish Bur	Crayfish Burrows (C8)			
Drift Deposits (B3) Recent Iro	on Reduction in Tilled Soils (C6)	Saturation Vi	sible on Aerial Imagery (C9)			
Algal Mat or Crust (B4) Thin Mucl	k Surface (C7)	✓ Geomorphic	Position (D2)			
	plain in Remarks)		Shallow Aquitard (D3)			
Inundation Visible on Aerial Imagery (B7)		✓ FAC-Neutral Test (D5)				
Water-Stained Leaves (B9)		Sphagnum n	noss (D8) (LRR T, U)			
Field Observations:						
Surface Water Present? Yes No _ ✓ Dept						
Water Table Present? Yes No _ ✓ Dept						
Saturation Present? Yes No ✓ Dept (includes capillary fringe)	n (inches): Wet	tland Hydrology Preser	t? Yes <u>▼</u> No			
Describe Recorded Data (stream gauge, monitoring well, as	rial photos, previous inspections)), if available:				
Remarks:						

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

EGETATION (Five Strata) – Use scientific na	imes of pia	ants.		Sampling Point: WA-SP1F
- 20 ft		Dominant		Dominance Test worksheet:
Tree Stratum (Plot size: 30 ft)		Species?		Number of Dominant Species
1. Quercus michauxii	30	Yes	FACW	That Are OBL, FACW, or FAC: 10 (A)
2. Pinus taeda	_ 20	Yes	FAC	Total Number of Dominant
3. Acer rubrum	_ 20	Yes	FAC	Species Across All Strata: 10 (B)
4. Quercus alba	_ 2	No	FACU	Percent of Dominant Species
5. Quercus rubra	_ 2	No	FACU	That Are OBL, FACW, or FAC: 100 (A/B)
6				
	74	= Total Cov	er	Prevalence Index worksheet:
50% of total cover: 37	20% of	total cover	15	Total % Cover of: Multiply by:
Sapling Stratum (Plot size: 30 ft)				OBL species 0 x 1 =
1. Liquidambar styraciflua	10	Yes	FAC	FACW species $\frac{3}{2}$ $x = \frac{20}{2}$
2. Magnolia virginiana	5	Yes	FACW	FAC species 125 $\times 3 = 375$
3. Quercus rubra	2	No	FACU	FACU species $\frac{5}{}$ x 4 = $\frac{20}{}$
4				UPL species 0 x 5 =
5				Column Totals: <u>133</u> (A) <u>415</u> (B)
				2.00
6		= Total Cov		Prevalence Index = B/A = $\frac{2.96}{}$
500/ -(1-1-19				Hydrophytic Vegetation Indicators:
50% of total cover: 9	20% of	total cover		1 - Rapid Test for Hydrophytic Vegetation
Shrub Stratum (Plot size: 30 ft) 1 Liquidambar styraciflua	20	Vaa	F40	2 - Dominance Test is >50%
		Yes	FAC	3 - Prevalence Index is ≤3.0 ¹
2. Acer rubrum		Yes	FAC	Problematic Hydrophytic Vegetation ¹ (Explain)
3				
4				¹ Indicators of hydric soil and wetland hydrology must
5				be present, unless disturbed or problematic.
6				Definitions of Five Vegetation Strata:
	30	= Total Cov	er	Tree – Woody plants, excluding woody vines,
50% of total cover: 15	20% of	total cover	6	approximately 20 ft (6 m) or more in height and 3 in.
Herb Stratum (Plot size: 30 ft)				(7.6 cm) or larger in diameter at breast height (DBH).
1. Arundinaria gigantea	40	Yes	FACW	Sapling – Woody plants, excluding woody vines,
2.				approximately 20 ft (6 m) or more in height and less
3.				than 3 in. (7.6 cm) DBH.
4.				Shrub – Woody plants, excluding woody vines,
5	_			approximately 3 to 20 ft (1 to 6 m) in height.
6.				Herb – All herbaceous (non-woody) plants, including
				herbaceous vines, regardless of size, and woody
7				plants, except woody vines, less than approximately
8				3 ft (1 m) in height.
9				Woody vine – All woody vines, regardless of height.
10				
11				
_		= Total Cov		
	20% of	total cover	:	
Woody Vine Stratum (Plot size: 30 ft)				
1. Smilax rotundifolia	5	Yes	FAC	
2. Vitis rotundifolia	5	Yes	FAC	
3				
4				
5.				Hydrophytic
	4.0	= Total Cov	er	Vegetation
-		total cover:	_	Present? Yes V
50% of total cover: 5	70% M		_	

SOIL Sampling Point: WA-SP1F

		e to the dep	th needed to docur			or confirm	m the absence	e of indicators.)
Depth (inches)	Matrix Color (moist)	%	Color (moist)	x Feature %	es Type ¹	Loc ²	Texture	Remarks
0-4	10 YR 2/1	100					Silt Loam	
4-7	10 YR 4/1	100		-			Loam	ORs
7-20	10 YR 4/1	90	10 YR 4/6	10	C	PL .	SCL	
								·
<u></u>					-			
					<u> </u>		· -	- <u> </u>
				-				·
								
			Reduced Matrix, M			rains.		: PL=Pore Lining, M=Matrix.
-		cable to all	LRRs, unless other		•			s for Problematic Hydric Soils ³ :
Histosol	(A1) pipedon (A2)		Polyvalue Be Thin Dark Su					Muck (A9) (LRR O) Muck (A10) (LRR S)
	istic (A3)		Loamy Muck					ced Vertic (F18) (outside MLRA 150A,B)
	en Sulfide (A4)		Loamy Gleye			,		nont Floodplain Soils (F19) (LRR P, S, T)
	d Layers (A5)		✓ Depleted Ma	. ,				nalous Bright Loamy Soils (F20)
-	Bodies (A6) (LRR		Redox Dark	,	,			LRA 153B)
l '	ucky Mineral (A7) (I resence (A8) (LRR		Depleted Da Redox Depre		, ,			Parent Material (TF2) Shallow Dark Surface (TF12)
l '	uck (A9) (LRR P, T)	•	Marl (F10) (L		0)			r (Explain in Remarks)
	d Below Dark Surfa		Depleted Oc	hric (F11		•		
	ark Surface (A12)		Iron-Mangan					icators of hydrophytic vegetation and
	rairie Redox (A16) Nucky Mineral (S1)		A) Umbric Surfa Delta Ochric					etland hydrology must be present, lless disturbed or problematic.
-	Bleyed Matrix (S4)	(LIKIK 0, 3)	Reduced Ve					ness disturbed of problematic.
	Redox (S5)		Piedmont Flo					
	l Matrix (S6)		Anomalous E	Bright Loa	amy Soils	(F20) (MLF	RA 149A, 1530	C, 153D)
	rface (S7) (LRR P,						T	
	Layer (if observed							
Type:	ches):						Hydric Soi	il Present? Yes V
Remarks:	CHC3).						Tiyane oo	in resent: res No
rtomano.								

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: Fentress Substation Property	City/County: City of Ch	hesapeake	Sampling Date: 10/30/2020			
Applicant/Owner: Dominion Energy Services	City/County: City of Ch	State: VA	Sampling Point: WA-SP1F			
Investigator(s): Paul Leeger, Heather Mitchell	Section, Township, Ran					
	-	Slope (%): 0				
Subregion (LRR or MLRA): T153A La		76.192490	Slope (70)			
Soil Map Unit Name: Acredale Silt Loam	:: <u></u>	.ong:	PFO			
	/	NWI classific				
Are climatic / hydrologic conditions on the site typical for this			/			
Are Vegetation, Soil, or Hydrology sig			oresent? Yes _ V No			
Are Vegetation, Soil, or Hydrology na	turally problematic? (If nee	eded, explain any answe	rs in Remarks.)			
SUMMARY OF FINDINGS - Attach site map s	howing sampling point lo	ocations, transects	, important features, etc.			
Hydrophytic Vegetation Present? Hydric Soil Present? Yes ✓ No Yes ✓ No Wetland Hydrology Present? Yes ✓ No	within a Wetland		, No			
Wetland Hydrology Present? Yes ✓ No Remarks:						
HYDROLOGY						
Wetland Hydrology Indicators:		Secondary Indica	tors (minimum of two required)			
Primary Indicators (minimum of one is required; check all the	at apply)	Surface Soil				
Surface Water (A1) Aquatic F			Sparsely Vegetated Concave Surface (B8)			
	osits (B15) (LRR U)		Drainage Patterns (B10)			
	Sulfide Odor (C1)	Moss Trim Li				
Water Marks (B1) ✓ Oxidized	Rhizospheres along Living Roots	(C3) Dry-Season	Dry-Season Water Table (C2)			
Sediment Deposits (B2) Presence	of Reduced Iron (C4)	Crayfish Bur	Crayfish Burrows (C8)			
Drift Deposits (B3) Recent Iro	on Reduction in Tilled Soils (C6)	Saturation Vi	sible on Aerial Imagery (C9)			
Algal Mat or Crust (B4) Thin Mucl	k Surface (C7)	✓ Geomorphic	Position (D2)			
	plain in Remarks)		Shallow Aquitard (D3)			
Inundation Visible on Aerial Imagery (B7)		✓ FAC-Neutral Test (D5)				
Water-Stained Leaves (B9)		Sphagnum n	noss (D8) (LRR T, U)			
Field Observations:						
Surface Water Present? Yes No _ ✓ Dept						
Water Table Present? Yes No _ ✓ Dept						
Saturation Present? Yes No ✓ Dept (includes capillary fringe)	n (inches): Wet	tland Hydrology Preser	t? Yes <u>▼</u> No			
Describe Recorded Data (stream gauge, monitoring well, as	rial photos, previous inspections)), if available:				
Remarks:						

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

EGETATION (Five Strata) – Use scientific na	imes of pia	ants.		Sampling Point: WA-SP1F
- 20 ft		Dominant		Dominance Test worksheet:
Tree Stratum (Plot size: 30 ft)		Species?		Number of Dominant Species
1. Quercus michauxii	30	Yes	FACW	That Are OBL, FACW, or FAC: 10 (A)
2. Pinus taeda	_ 20	Yes	FAC	Total Number of Dominant
3. Acer rubrum	_ 20	Yes	FAC	Species Across All Strata: 10 (B)
4. Quercus alba	_ 2	No	FACU	Percent of Dominant Species
5. Quercus rubra	_ 2	No	FACU	That Are OBL, FACW, or FAC: 100 (A/B)
6				
	74	= Total Cov	er	Prevalence Index worksheet:
50% of total cover: 37	20% of	total cover	15	Total % Cover of: Multiply by:
Sapling Stratum (Plot size: 30 ft)				OBL species 0 x 1 =
1. Liquidambar styraciflua	10	Yes	FAC	FACW species $\frac{3}{2}$ $x = \frac{20}{2}$
2. Magnolia virginiana	5	Yes	FACW	FAC species 125 $\times 3 = 375$
3. Quercus rubra	2	No	FACU	FACU species $\frac{5}{}$ x 4 = $\frac{20}{}$
4				UPL species 0 x 5 =
5				Column Totals: <u>133</u> (A) <u>415</u> (B)
				2.00
6		= Total Cov		Prevalence Index = B/A = $\frac{2.96}{}$
500/ -(1-1-19				Hydrophytic Vegetation Indicators:
50% of total cover: 9	20% of	total cover		1 - Rapid Test for Hydrophytic Vegetation
Shrub Stratum (Plot size: 30 ft) 1 Liquidambar styraciflua	20	Voc	F40	2 - Dominance Test is >50%
		Yes	FAC	3 - Prevalence Index is ≤3.0 ¹
2. Acer rubrum		Yes	FAC	Problematic Hydrophytic Vegetation ¹ (Explain)
3				
4				¹ Indicators of hydric soil and wetland hydrology must
5				be present, unless disturbed or problematic.
6				Definitions of Five Vegetation Strata:
	30	= Total Cov	er	Tree – Woody plants, excluding woody vines,
50% of total cover: 15	20% of	total cover	6	approximately 20 ft (6 m) or more in height and 3 in.
Herb Stratum (Plot size: 30 ft)				(7.6 cm) or larger in diameter at breast height (DBH).
1. Arundinaria gigantea	40	Yes	FACW	Sapling – Woody plants, excluding woody vines,
2.				approximately 20 ft (6 m) or more in height and less
3.				than 3 in. (7.6 cm) DBH.
4.				Shrub – Woody plants, excluding woody vines,
5	_			approximately 3 to 20 ft (1 to 6 m) in height.
6.				Herb – All herbaceous (non-woody) plants, including
				herbaceous vines, regardless of size, and woody
7				plants, except woody vines, less than approximately
8				3 ft (1 m) in height.
9				Woody vine – All woody vines, regardless of height.
10				
11				
_		= Total Cov		
	20% of	total cover	:	
Woody Vine Stratum (Plot size: 30 ft)				
1. Smilax rotundifolia	5	Yes	FAC	
2. Vitis rotundifolia	5	Yes	FAC	
3				
4				
5.				Hydrophytic
	4.0	= Total Cov	er	Vegetation
-		total cover:	_	Present? Yes V
50% of total cover: 5	70% M		_	

SOIL Sampling Point: WA-SP1F

		e to the dep	th needed to docur			or confirm	m the absence	e of indicators.)
Depth (inches)	Matrix Color (moist)	%	Color (moist)	x Feature %	es Type ¹	Loc ²	Texture	Remarks
0-4	10 YR 2/1	100					Silt Loam	
4-7	10 YR 4/1	100		-			Loam	ORs
7-20	10 YR 4/1	90	10 YR 4/6	10	C	PL .	SCL	
								·
<u></u>					-			
					<u> </u>		· -	- <u> </u>
				-				·
								
			Reduced Matrix, M			rains.		: PL=Pore Lining, M=Matrix.
-		cable to all	LRRs, unless other		•			s for Problematic Hydric Soils ³ :
Histosol	(A1) pipedon (A2)		Polyvalue Be Thin Dark Su					Muck (A9) (LRR O) Muck (A10) (LRR S)
	istic (A3)		Loamy Muck					ced Vertic (F18) (outside MLRA 150A,B)
	en Sulfide (A4)		Loamy Gleye			,		nont Floodplain Soils (F19) (LRR P, S, T)
	d Layers (A5)		✓ Depleted Ma	. ,				nalous Bright Loamy Soils (F20)
-	Bodies (A6) (LRR		Redox Dark	,	,			LRA 153B)
l '	ucky Mineral (A7) (I resence (A8) (LRR		Depleted Da Redox Depre		, ,			Parent Material (TF2) Shallow Dark Surface (TF12)
l '	uck (A9) (LRR P, T)	•	Marl (F10) (L		0)			r (Explain in Remarks)
	d Below Dark Surfa		Depleted Oc	hric (F11		•		
	ark Surface (A12)		Iron-Mangan					icators of hydrophytic vegetation and
	rairie Redox (A16) Nucky Mineral (S1)		A) Umbric Surfa Delta Ochric					etland hydrology must be present, lless disturbed or problematic.
-	Bleyed Matrix (S4)	(LIKIK 0, 3)	Reduced Ve					ness disturbed of problematic.
	Redox (S5)		Piedmont Flo					
	l Matrix (S6)		Anomalous E	Bright Loa	amy Soils	(F20) (MLF	RA 149A, 1530	C, 153D)
	rface (S7) (LRR P,						T	
	Layer (if observed							
Type:	ches):						Hydric Soi	il Present? Yes V
Remarks:	CHC3).						Tiyane oo	in resent: res No
rtomano.								

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: Fentress Substation Property	City/County: City of Ch	hesapeake	Sampling Date: 10/30/2020			
Applicant/Owner: Dominion Energy Services	City/County: City of Ch	State: VA	Sampling Point: WA-SP1F			
Investigator(s): Paul Leeger, Heather Mitchell	Section, Township, Ran					
	-	Slope (%): 0				
Subregion (LRR or MLRA): T153A La		76.192490	Slope (70)			
Soil Map Unit Name: Acredale Silt Loam	:: <u></u>	.ong:	PFO			
	/	NWI classific				
Are climatic / hydrologic conditions on the site typical for this			/			
Are Vegetation, Soil, or Hydrology sig			oresent? Yes _ V No			
Are Vegetation, Soil, or Hydrology na	turally problematic? (If nee	eded, explain any answe	rs in Remarks.)			
SUMMARY OF FINDINGS - Attach site map s	howing sampling point lo	ocations, transects	, important features, etc.			
Hydrophytic Vegetation Present? Hydric Soil Present? Yes ✓ No Yes ✓ No Wetland Hydrology Present? Yes ✓ No	within a Wetland		, No			
Wetland Hydrology Present? Yes ✓ No Remarks:						
HYDROLOGY						
Wetland Hydrology Indicators:		Secondary Indica	tors (minimum of two required)			
Primary Indicators (minimum of one is required; check all the	at apply)	Surface Soil				
Surface Water (A1) Aquatic F			Sparsely Vegetated Concave Surface (B8)			
	osits (B15) (LRR U)		Drainage Patterns (B10)			
	Sulfide Odor (C1)	Moss Trim Li				
Water Marks (B1) ✓ Oxidized	Rhizospheres along Living Roots	(C3) Dry-Season	Dry-Season Water Table (C2)			
Sediment Deposits (B2) Presence	of Reduced Iron (C4)	Crayfish Bur	Crayfish Burrows (C8)			
Drift Deposits (B3) Recent Iro	on Reduction in Tilled Soils (C6)	Saturation Vi	sible on Aerial Imagery (C9)			
Algal Mat or Crust (B4) Thin Mucl	k Surface (C7)	✓ Geomorphic	Position (D2)			
	plain in Remarks)		Shallow Aquitard (D3)			
Inundation Visible on Aerial Imagery (B7)		✓ FAC-Neutral Test (D5)				
Water-Stained Leaves (B9)		Sphagnum n	noss (D8) (LRR T, U)			
Field Observations:						
Surface Water Present? Yes No _ ✓ Dept						
Water Table Present? Yes No _ ✓ Dept						
Saturation Present? Yes No ✓ Dept (includes capillary fringe)	n (inches): Wet	tland Hydrology Preser	t? Yes <u>▼</u> No			
Describe Recorded Data (stream gauge, monitoring well, as	rial photos, previous inspections)), if available:				
Remarks:						

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

EGETATION (Five Strata) – Use scientific na	imes of pia	ants.		Sampling Point: WA-SP1F
- 20 ft		Dominant		Dominance Test worksheet:
Tree Stratum (Plot size: 30 ft)		Species?		Number of Dominant Species
1. Quercus michauxii	30	Yes	FACW	That Are OBL, FACW, or FAC: 10 (A)
2. Pinus taeda	_ 20	Yes	FAC	Total Number of Dominant
3. Acer rubrum	_ 20	Yes	FAC	Species Across All Strata: 10 (B)
4. Quercus alba	_ 2	No	FACU	Percent of Dominant Species
5. Quercus rubra	_ 2	No	FACU	That Are OBL, FACW, or FAC: 100 (A/B)
6				
	74	= Total Cov	er	Prevalence Index worksheet:
50% of total cover: 37	20% of	total cover	15	Total % Cover of: Multiply by:
Sapling Stratum (Plot size: 30 ft)				OBL species 0 x 1 =
1. Liquidambar styraciflua	10	Yes	FAC	FACW species $\frac{3}{2}$ $x = \frac{20}{2}$
2. Magnolia virginiana	5	Yes	FACW	FAC species 125 $\times 3 = 375$
3. Quercus rubra	2	No	FACU	FACU species $\frac{5}{}$ x 4 = $\frac{20}{}$
4				UPL species 0 x 5 =
5				Column Totals: <u>133</u> (A) <u>415</u> (B)
				2.00
6		= Total Cov		Prevalence Index = B/A = $\frac{2.96}{}$
500/ -(1-1-19				Hydrophytic Vegetation Indicators:
50% of total cover: 9	20% of	total cover		1 - Rapid Test for Hydrophytic Vegetation
Shrub Stratum (Plot size: 30 ft) 1 Liquidambar styraciflua	20	Voc	F40	2 - Dominance Test is >50%
		Yes	FAC	3 - Prevalence Index is ≤3.0 ¹
2. Acer rubrum		Yes	FAC	Problematic Hydrophytic Vegetation ¹ (Explain)
3				
4				¹ Indicators of hydric soil and wetland hydrology must
5				be present, unless disturbed or problematic.
6				Definitions of Five Vegetation Strata:
	30	= Total Cov	er	Tree – Woody plants, excluding woody vines,
50% of total cover: 15	20% of	total cover	6	approximately 20 ft (6 m) or more in height and 3 in.
Herb Stratum (Plot size: 30 ft)				(7.6 cm) or larger in diameter at breast height (DBH).
1. Arundinaria gigantea	40	Yes	FACW	Sapling – Woody plants, excluding woody vines,
2.				approximately 20 ft (6 m) or more in height and less
3.				than 3 in. (7.6 cm) DBH.
4.				Shrub – Woody plants, excluding woody vines,
5	_			approximately 3 to 20 ft (1 to 6 m) in height.
6.				Herb – All herbaceous (non-woody) plants, including
				herbaceous vines, regardless of size, and woody
7				plants, except woody vines, less than approximately
8				3 ft (1 m) in height.
9				Woody vine – All woody vines, regardless of height.
10				
11				
_		= Total Cov		
	20% of	total cover	:	
Woody Vine Stratum (Plot size: 30 ft)				
1. Smilax rotundifolia	5	Yes	FAC	
2. Vitis rotundifolia	5	Yes	FAC	
3				
4				
5.				Hydrophytic
	4.0	= Total Cov	er	Vegetation
-		total cover:	_	Present? Yes V
50% of total cover: 5	70% M		_	

SOIL Sampling Point: WA-SP1F

		e to the dep	th needed to docur			or confirm	m the absence	e of indicators.)
Depth (inches)	Matrix Color (moist)	%	Color (moist)	x Feature %	es Type ¹	Loc ²	Texture	Remarks
0-4	10 YR 2/1	100					Silt Loam	
4-7	10 YR 4/1	100		-			Loam	ORs
7-20	10 YR 4/1	90	10 YR 4/6	10	C	PL .	SCL	
								·
<u></u>					-			
					<u> </u>		· -	- <u> </u>
				-				·
								
			Reduced Matrix, M			rains.		: PL=Pore Lining, M=Matrix.
-		cable to all	LRRs, unless other		•			s for Problematic Hydric Soils ³ :
Histosol	(A1) pipedon (A2)		Polyvalue Be Thin Dark Su					Muck (A9) (LRR O) Muck (A10) (LRR S)
	istic (A3)		Loamy Muck					ced Vertic (F18) (outside MLRA 150A,B)
	en Sulfide (A4)		Loamy Gleye			,		nont Floodplain Soils (F19) (LRR P, S, T)
	d Layers (A5)		✓ Depleted Ma	. ,				nalous Bright Loamy Soils (F20)
-	Bodies (A6) (LRR		Redox Dark	,	,			LRA 153B)
l '	ucky Mineral (A7) (I resence (A8) (LRR		Depleted Da Redox Depre		, ,			Parent Material (TF2) Shallow Dark Surface (TF12)
l '	uck (A9) (LRR P, T)	•	Marl (F10) (L		0)			r (Explain in Remarks)
	d Below Dark Surfa		Depleted Oc	hric (F11		•		
	ark Surface (A12)		Iron-Mangan					icators of hydrophytic vegetation and
	rairie Redox (A16) Nucky Mineral (S1)		A) Umbric Surfa Delta Ochric					etland hydrology must be present, lless disturbed or problematic.
-	Bleyed Matrix (S4)	(LIKIK 0, 3)	Reduced Ve					ness disturbed of problematic.
	Redox (S5)		Piedmont Flo					
	l Matrix (S6)		Anomalous E	Bright Loa	amy Soils	(F20) (MLF	RA 149A, 1530	C, 153D)
	rface (S7) (LRR P,						T	
	Layer (if observed							
Type:	ches):						Hydric Soi	il Present? Yes V
Remarks:	CHC3).						Tiyane oo	in resent: res No
rtomano.								

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: Fentress Substation Property	City/County: City of Ch	hesapeake	Sampling Date: 10/30/2020			
Applicant/Owner: Dominion Energy Services	City/County: City of Ch	State: VA	Sampling Point: WA-SP1F			
Investigator(s): Paul Leeger, Heather Mitchell	Section, Township, Ran					
	-	Slope (%): 0				
Subregion (LRR or MLRA): T153A La		76.192490	Slope (70)			
Soil Map Unit Name: Acredale Silt Loam	:: <u></u> L(.ong:	PFO			
	/	NWI classific				
Are climatic / hydrologic conditions on the site typical for this			/			
Are Vegetation, Soil, or Hydrology sig			oresent? Yes _ V No			
Are Vegetation, Soil, or Hydrology na	turally problematic? (If nee	eded, explain any answe	rs in Remarks.)			
SUMMARY OF FINDINGS - Attach site map s	howing sampling point lo	ocations, transects	, important features, etc.			
Hydrophytic Vegetation Present? Hydric Soil Present? Yes ✓ No Yes ✓ No Wetland Hydrology Present? Yes ✓ No	within a Wetland		, No			
Wetland Hydrology Present? Yes ✓ No Remarks:						
HYDROLOGY						
Wetland Hydrology Indicators:		Secondary Indica	tors (minimum of two required)			
Primary Indicators (minimum of one is required; check all the	at apply)	Surface Soil				
Surface Water (A1) Aquatic F			Sparsely Vegetated Concave Surface (B8)			
	osits (B15) (LRR U)		Drainage Patterns (B10)			
	Sulfide Odor (C1)	Moss Trim Li				
Water Marks (B1) ✓ Oxidized	Rhizospheres along Living Roots	(C3) Dry-Season	Dry-Season Water Table (C2)			
Sediment Deposits (B2) Presence	of Reduced Iron (C4)	Crayfish Bur	Crayfish Burrows (C8)			
Drift Deposits (B3) Recent Iro	on Reduction in Tilled Soils (C6)	Saturation Vi	sible on Aerial Imagery (C9)			
Algal Mat or Crust (B4) Thin Mucl	k Surface (C7)	✓ Geomorphic	Position (D2)			
	plain in Remarks)		Shallow Aquitard (D3)			
Inundation Visible on Aerial Imagery (B7)		✓ FAC-Neutral Test (D5)				
Water-Stained Leaves (B9)		Sphagnum n	noss (D8) (LRR T, U)			
Field Observations:						
Surface Water Present? Yes No _ ✓ Dept						
Water Table Present? Yes No _ ✓ Dept						
Saturation Present? Yes No ✓ Dept (includes capillary fringe)	n (inches): Wet	tland Hydrology Preser	t? Yes <u>▼</u> No			
Describe Recorded Data (stream gauge, monitoring well, as	rial photos, previous inspections)), if available:				
Remarks:						

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

EGETATION (Five Strata) – Use scientific na	imes of pia	ants.		Sampling Point: WA-SP1F
- 20 ft		Dominant		Dominance Test worksheet:
Tree Stratum (Plot size: 30 ft)		Species?		Number of Dominant Species
1. Quercus michauxii	30	Yes	FACW	That Are OBL, FACW, or FAC: 10 (A)
2. Pinus taeda	_ 20	Yes	FAC	Total Number of Dominant
3. Acer rubrum	_ 20	Yes	FAC	Species Across All Strata: 10 (B)
4. Quercus alba	_ 2	No	FACU	Percent of Dominant Species
5. Quercus rubra	_ 2	No	FACU	That Are OBL, FACW, or FAC: 100 (A/B)
6				
	74	= Total Cov	er	Prevalence Index worksheet:
50% of total cover: 37	20% of	total cover	15	Total % Cover of: Multiply by:
Sapling Stratum (Plot size: 30 ft)				OBL species 0 x 1 =
1. Liquidambar styraciflua	10	Yes	FAC	FACW species $\frac{3}{2}$ $x = \frac{20}{2}$
2. Magnolia virginiana	5	Yes	FACW	FAC species 125 $\times 3 = 375$
3. Quercus rubra	2	No	FACU	FACU species $\frac{5}{}$ x 4 = $\frac{20}{}$
4				UPL species 0 x 5 =
5				Column Totals: <u>133</u> (A) <u>415</u> (B)
				2.00
6		= Total Cov		Prevalence Index = B/A = $\frac{2.96}{}$
500/ -(1-1-19				Hydrophytic Vegetation Indicators:
50% of total cover: 9	20% of	total cover		1 - Rapid Test for Hydrophytic Vegetation
Shrub Stratum (Plot size: 30 ft) 1 Liquidambar styraciflua	20	Voc	F40	2 - Dominance Test is >50%
		Yes	FAC	3 - Prevalence Index is ≤3.0 ¹
2. Acer rubrum		Yes	FAC	Problematic Hydrophytic Vegetation ¹ (Explain)
3				
4				¹ Indicators of hydric soil and wetland hydrology must
5				be present, unless disturbed or problematic.
6				Definitions of Five Vegetation Strata:
	30	= Total Cov	er	Tree – Woody plants, excluding woody vines,
50% of total cover: 15	20% of	total cover	6	approximately 20 ft (6 m) or more in height and 3 in.
Herb Stratum (Plot size: 30 ft)				(7.6 cm) or larger in diameter at breast height (DBH).
1. Arundinaria gigantea	40	Yes	FACW	Sapling – Woody plants, excluding woody vines,
2.				approximately 20 ft (6 m) or more in height and less
3.				than 3 in. (7.6 cm) DBH.
4.				Shrub – Woody plants, excluding woody vines,
5	_			approximately 3 to 20 ft (1 to 6 m) in height.
6.				Herb – All herbaceous (non-woody) plants, including
				herbaceous vines, regardless of size, and woody
7				plants, except woody vines, less than approximately
8				3 ft (1 m) in height.
9				Woody vine – All woody vines, regardless of height.
10				
11				
_		= Total Cov		
	20% of	total cover	:	
Woody Vine Stratum (Plot size: 30 ft)				
1. Smilax rotundifolia	5	Yes	FAC	
2. Vitis rotundifolia	5	Yes	FAC	
3				
4				
5.				Hydrophytic
	4.0	= Total Cov	er	Vegetation
-		total cover:	_	Present? Yes V
50% of total cover: 5	70% M		_	

SOIL Sampling Point: WA-SP1F

		e to the dep	th needed to docur			or confirm	m the absence	e of indicators.)
Depth (inches)	Matrix Color (moist)	%	Color (moist)	x Feature %	es Type ¹	Loc ²	Texture	Remarks
0-4	10 YR 2/1	100					Silt Loam	
4-7	10 YR 4/1	100		-			Loam	ORs
7-20	10 YR 4/1	90	10 YR 4/6	10	C	PL .	SCL	
								·
<u></u>					-			
					<u> </u>		· -	- <u> </u>
				-				·
								
			Reduced Matrix, M			rains.		: PL=Pore Lining, M=Matrix.
-		cable to all	LRRs, unless other		•			s for Problematic Hydric Soils ³ :
Histosol	(A1) pipedon (A2)		Polyvalue Be Thin Dark Su					Muck (A9) (LRR O) Muck (A10) (LRR S)
	istic (A3)		Loamy Muck					ced Vertic (F18) (outside MLRA 150A,B)
	en Sulfide (A4)		Loamy Gleye			,		nont Floodplain Soils (F19) (LRR P, S, T)
	d Layers (A5)		✓ Depleted Ma	. ,				nalous Bright Loamy Soils (F20)
-	Bodies (A6) (LRR		Redox Dark	,	,			LRA 153B)
l '	ucky Mineral (A7) (I resence (A8) (LRR		Depleted Da Redox Depre		, ,			Parent Material (TF2) Shallow Dark Surface (TF12)
l '	uck (A9) (LRR P, T)	•	Marl (F10) (L		0)			r (Explain in Remarks)
	d Below Dark Surfa		Depleted Oc	hric (F11		•		
	ark Surface (A12)		Iron-Mangan					icators of hydrophytic vegetation and
	rairie Redox (A16) Nucky Mineral (S1)		A) Umbric Surfa Delta Ochric					etland hydrology must be present, lless disturbed or problematic.
-	Bleyed Matrix (S4)	(LIKIK 0, 3)	Reduced Ve					ness disturbed of problematic.
	Redox (S5)		Piedmont Flo					
	l Matrix (S6)		Anomalous E	Bright Loa	amy Soils	(F20) (MLF	RA 149A, 1530	C, 153D)
	rface (S7) (LRR P,						T	
	Layer (if observed							
Type:	ches):						Hydric Soi	il Present? Yes V
Remarks:	CHC3).						Tiyane oo	in resent: res No
rtomano.								

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: Fentress Substation Property	City/County: City of Ch	hesapeake	Sampling Date: 10/30/2020		
Applicant/Owner: Dominion Energy Services	City/County: City of Ch	State: VA	Sampling Point: WA-SP1F		
Investigator(s): Paul Leeger, Heather Mitchell		Section, Township, Range:			
	Local relief (concave, co	-	Slone (%): 0		
Subregion (LRR or MLRA): T153A La		76.192490	Slope (70)		
Soil Map Unit Name: Acredale Silt Loam	:: <u></u> L(.ong:	PFO		
	/	NWI classific			
Are climatic / hydrologic conditions on the site typical for this			/		
Are Vegetation, Soil, or Hydrology sig			oresent? Yes _ V No		
Are Vegetation, Soil, or Hydrology na	turally problematic? (If nee	eded, explain any answe	rs in Remarks.)		
SUMMARY OF FINDINGS - Attach site map s	howing sampling point lo	ocations, transects	, important features, etc.		
Hydrophytic Vegetation Present? Hydric Soil Present? Yes ✓ No Yes ✓ No Wetland Hydrology Present? Yes ✓ No	within a Wetland		, No		
Wetland Hydrology Present? Yes ✓ No Remarks:					
HYDROLOGY					
Wetland Hydrology Indicators:		Secondary Indica	tors (minimum of two required)		
Primary Indicators (minimum of one is required; check all the	at apply)	Surface Soil			
Surface Water (A1) Aquatic F			getated Concave Surface (B8)		
	osits (B15) (LRR U)	Drainage Pa			
	Sulfide Odor (C1)	Moss Trim Li			
Water Marks (B1) ✓ Oxidized	Rhizospheres along Living Roots	(C3) Dry-Season	Dry-Season Water Table (C2)		
Sediment Deposits (B2) Presence	of Reduced Iron (C4)	Crayfish Bur	rows (C8)		
Drift Deposits (B3) Recent Iro	on Reduction in Tilled Soils (C6)	Saturation Vi	Saturation Visible on Aerial Imagery (C9)		
Algal Mat or Crust (B4) Thin Mucl	k Surface (C7)	✓ Geomorphic	Position (D2)		
	plain in Remarks)		Shallow Aquitard (D3)		
Inundation Visible on Aerial Imagery (B7)		✓ FAC-Neutral Test (D5)			
Water-Stained Leaves (B9)		Sphagnum n	noss (D8) (LRR T, U)		
Field Observations:					
Surface Water Present? Yes No _ ✓ Dept					
Water Table Present? Yes No _ ✓ Dept					
Saturation Present? Yes No ✓ Dept (includes capillary fringe)	n (inches): Wet	tland Hydrology Preser	t? Yes <u>▼</u> No		
Describe Recorded Data (stream gauge, monitoring well, as	rial photos, previous inspections)), if available:			
Remarks:					

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

EGETATION (Five Strata) – Use scientific na	imes of pia	ants.		Sampling Point: WA-SP1F
- 20 ft		Dominant		Dominance Test worksheet:
Tree Stratum (Plot size: 30 ft)		Species?		Number of Dominant Species
1. Quercus michauxii	30	Yes	FACW	That Are OBL, FACW, or FAC: 10 (A)
2. Pinus taeda	_ 20	Yes	FAC	Total Number of Dominant
3. Acer rubrum	_ 20	Yes	FAC	Species Across All Strata: 10 (B)
4. Quercus alba	_ 2	No	FACU	Percent of Dominant Species
5. Quercus rubra	_ 2	No	FACU	That Are OBL, FACW, or FAC: 100 (A/B)
6				
	74	= Total Cov	er	Prevalence Index worksheet:
50% of total cover: 37	20% of	total cover	15	Total % Cover of: Multiply by:
Sapling Stratum (Plot size: 30 ft)				OBL species 0 x 1 =
1. Liquidambar styraciflua	10	Yes	FAC	FACW species $\frac{3}{2}$ $x = \frac{20}{2}$
2. Magnolia virginiana	5	Yes	FACW	FAC species 125 $\times 3 = 375$
3. Quercus rubra	2	No	FACU	FACU species $\frac{5}{}$ x 4 = $\frac{20}{}$
4				UPL species 0 x 5 =
5				Column Totals: <u>133</u> (A) <u>415</u> (B)
				2.00
6		= Total Cov		Prevalence Index = B/A = $\frac{2.96}{}$
500/ -(1-1-19				Hydrophytic Vegetation Indicators:
50% of total cover: 9	20% of	total cover		1 - Rapid Test for Hydrophytic Vegetation
Shrub Stratum (Plot size: 30 ft) 1 Liquidambar styraciflua	20	Voc	F40	2 - Dominance Test is >50%
		Yes	FAC	3 - Prevalence Index is ≤3.0 ¹
2. Acer rubrum		Yes	FAC	Problematic Hydrophytic Vegetation ¹ (Explain)
3				
4				¹ Indicators of hydric soil and wetland hydrology must
5				be present, unless disturbed or problematic.
6				Definitions of Five Vegetation Strata:
	30	= Total Cov	er	Tree – Woody plants, excluding woody vines,
50% of total cover: 15	20% of	total cover	6	approximately 20 ft (6 m) or more in height and 3 in.
Herb Stratum (Plot size: 30 ft)				(7.6 cm) or larger in diameter at breast height (DBH).
1. Arundinaria gigantea	40	Yes	FACW	Sapling – Woody plants, excluding woody vines,
2.				approximately 20 ft (6 m) or more in height and less
3.				than 3 in. (7.6 cm) DBH.
4.				Shrub – Woody plants, excluding woody vines,
5	_			approximately 3 to 20 ft (1 to 6 m) in height.
6.				Herb – All herbaceous (non-woody) plants, including
				herbaceous vines, regardless of size, and woody
7				plants, except woody vines, less than approximately
8				3 ft (1 m) in height.
9				Woody vine – All woody vines, regardless of height.
10				
11				
_		= Total Cov		
	20% of	total cover	:	
Woody Vine Stratum (Plot size: 30 ft)				
1. Smilax rotundifolia	5	Yes	FAC	
2. Vitis rotundifolia	5	Yes	FAC	
3				
4				
5.				Hydrophytic
	4.0	= Total Cov	er	Vegetation
-		total cover:	_	Present? Yes V
50% of total cover: 5	70% M		_	

SOIL Sampling Point: WA-SP1F

		e to the dep	th needed to docur			or confirm	m the absence	e of indicators.)
Depth (inches)	Matrix Color (moist)	%	Color (moist)	x Feature %	es Type ¹	Loc ²	Texture	Remarks
0-4	10 YR 2/1	100					Silt Loam	
4-7	10 YR 4/1	100		-			Loam	ORs
7-20	10 YR 4/1	90	10 YR 4/6	10	C	PL .	SCL	
								·
<u></u>					-			
					<u> </u>		· -	
				-				·
								
			Reduced Matrix, M			rains.		: PL=Pore Lining, M=Matrix.
-		cable to all	LRRs, unless other		•			s for Problematic Hydric Soils ³ :
Histosol	(A1) pipedon (A2)		Polyvalue Be Thin Dark Su					Muck (A9) (LRR O) Muck (A10) (LRR S)
	istic (A3)		Loamy Muck					ced Vertic (F18) (outside MLRA 150A,B)
	en Sulfide (A4)		Loamy Gleye			,		nont Floodplain Soils (F19) (LRR P, S, T)
	d Layers (A5)		✓ Depleted Ma	. ,				nalous Bright Loamy Soils (F20)
-	Bodies (A6) (LRR		Redox Dark	,	,			LRA 153B)
l '	ucky Mineral (A7) (I resence (A8) (LRR		Depleted Da Redox Depre		, ,			Parent Material (TF2) Shallow Dark Surface (TF12)
l '	uck (A9) (LRR P, T)	•	Marl (F10) (L		0)			r (Explain in Remarks)
	d Below Dark Surfa		Depleted Oc	hric (F11		•		
	ark Surface (A12)		Iron-Mangan					icators of hydrophytic vegetation and
	rairie Redox (A16) Nucky Mineral (S1)		A) Umbric Surfa Delta Ochric					etland hydrology must be present, lless disturbed or problematic.
-	Bleyed Matrix (S4)	(LIKIK 0, 3)	Reduced Ve					ness disturbed of problematic.
	Redox (S5)		Piedmont Flo					
	l Matrix (S6)		Anomalous E	Bright Loa	amy Soils	(F20) (MLF	RA 149A, 1530	C, 153D)
	rface (S7) (LRR P,						T	
	Layer (if observed							
Type:	ches):						Hydric Soi	il Present? Yes V
Remarks:	CHC3).						Tiyane oo	in resent: res No
rtomano.								



Photo 1: View looking east at palustrine forested (PFO) wetlands at the Site from wetland data point WA-SP1F.



Photo 2: View looking north at PFO wetlands at the Site from wetland data point WB-SP2F.





Photo 3: View looking north at palustrine emergent (PEM) wetlands at the Site from wetland data point WB-SP3E.



Photo 4: View looking west at PFO wetlands at the Site from wetland data point WB-SP2F.





Photo 5: View looking northeast at palustrine emergent (PEM) wetlands at the Site from wetland data point WC-SP2E.



Photo 6: View looking northeast at upland forest from data point SP-U2F.





Photo 7: View of upland maintained easement north of the existing Fentress substation from upland data point SP-U1E.



Photo 8: View looking north at upland forest from data point SP-U3F.





DEPARTMENT OF THE ARMY US ARMY CORPS OF ENGINEERS

ARMY CORPS OF ENGINEERS NORFOLK DISTRICT FORT NORFOLK 803 FRONT STREET NORFOLK VA 23510-1011

June 24, 2021

PRELIMINARY JURISDICTIONAL DETERMINATION

Eastern Virginia Regulatory Section NAO-2021-0371 (Pocaty River drainage basin)

Dominion Energy Services Inc. c/o Bob Bisha 120 Tredegar Street Richmond, Virginia 23219

To Whom It May Concern:

This letter is in regard to your request for a preliminary jurisdictional determination of the aquatic resources (e.g., wetlands, streams, and ponds), on an approximately 46.5-acre Area Of Interest (AOI). This Jurisdictional Determination includes parcels 0610000000952, 0610000000954, and 0610000000955 located in Chesapeake, Virginia. Within the AOI there is approximately 17.90 acres of PFO wetlands and 2.85 acres of PEM wetlands and approximately 4,529.6 linear feet of jurisdictional ditches.

The map entitled "Coastal Virginia Offshore Wind Project, Chesapeake, VA, Fentress Substation Area", by Dominion Energy dated June 21, 2021 (copy enclosed) provides the locations of the aquatic resources on the property referenced above.

These aquatic resources exhibit wetland criteria as defined in the 1987 Corps of Engineers Wetland Delineation Manual and the Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Atlantic and Gulf Coastal Plain Region. This site also contains aquatic resources with an ordinary high water mark (or high tide line).

This preliminary jurisdictional determination and associated aquatic resource delineation map may be submitted with a permit application.

Please be aware that you may be required to obtain a Corps permit for any discharge of dredged and/or fill material, either temporary or permanent, into a water of the U.S. In addition, you may be required to obtain a Corps permit for certain activities occurring within, under, or over a navigable water of the U.S. subject to the Section 10 of the Rivers and Harbors Act. Furthermore, you may be required to obtain state and local authorizations, including a Virginia Water Protection Permit from the Virginia Department of Environmental Quality (DEQ), a permit from the Virginia Marine Resources Commission (VMRC), and/or a permit from your local wetlands board.

This delineation and preliminary jurisdictional determination may not be valid for the Wetland Conservation Provisions of the Food Security Act of 1985, as amended.

Therefore, if you or your tenant are US Department of Agriculture (USDA) program participants, or anticipate participation in USDA programs, you should discuss the applicability of a certified wetland determination with the local USDA service center, prior to starting work.

This is a preliminary jurisdictional determination and is not a legally binding determination regarding whether Corps jurisdiction applies to the aquatic resources in question. To determine Corps' jurisdiction you may request and obtain an approved jurisdictional determination.

This delineation of aquatic resources can be relied upon for no more than five years from the date of this letter. New information may warrant revision. Enclosed is a copy of the "Preliminary Jurisdictional Determination Form". Please review the document, sign, and return one copy to the Corps, either by email (danny.r.bacon@usace.army.mil) or by standard mail to 803 Front Street, Norfolk, Virginia 23510

If you have any questions, please contact me either by telephone at (757) 201-7060 or by email at danny.r.bacon@usace.army.mil.

Sincerely,

Danny R Bacon Digitally signed by Danny R Bacon Date: 2021.06.24 17:48:06 -04'00'

Dan Bacon Eastern Virginia Regulatory Section

Enclosure(s):

Delineation Map Supplemental information PJD Letter PJD Form

cc: Virginia Department of Environmental Quality City of Chesapeake

APPENDIX E-2: NAO-2018-01177 BEDFORD AJD



Corporate Headquarters 5020 Montrose Blvd. Suite 650 Houston, TX 77006 Main: 713.520.5400

Waters of the U.S. Delineation for Bedford Solar Center Chesapeake County, Virginia

Prepared for: Coronal Energy 321 E Main St #300 Charlottesville, VA 22902

For Use/Review by: U.S. Army Corps of Engineers

Prepared by:
RES
1408 Roseneath Road, Suite B
Richmond, VA 23230

May 2018



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Figure 1 Vicinity Map

Figure 2 Project Location Map

Figure 3 National Wetland Inventory Map

Figure 4 Aerial Imagery

Figure 5 Soils Map

Appendix B: Cowardin System of Wetlands and Deepwater Water Habitat Classification

Appendix C: Wetland Delineation Data Sheets

Appendix D: Waters of the U.S. Delineation Map



Project Summary Sheet for USACE Confirmation Site Visit

General Information

Project/Site Name	Bedford Solar Center
Applicant/Owner	Coronal Energy 321 E Main St #300 Charlottesville, VA 22902
Authorized Agent	RES 1408 Roseneath Road, Suite B Richmond, Virginia 23230 Attn: Rick Atkinson, Mike Molnar
Project/Site Size	565.70 +/- acres
Parcel I.D.	GPIN 0620000000120 0620000000100 062000000040 062000000090 0620000000090

Project Location

Locality	Chesapeake County, Virginia
USGS Quad. Map(s)	Fentress (VA)
Approx. Latitude	36.6952
Approx. Longitude	-76.1683
Approx. Elevation	10' - 22' msl
Nearest Tributary	Pocaty River
HUC Code	03010205 (Albemarle)

Location Description

The approximate 565.70-acre project area is in eastern Chesapeake County roughly 2.1 miles from the area known as Albemarle Acers. The intersection of Blue Ridge Road and Bedford Street is located within the project area, with Blue Ridge Road transecting the project. Refer to the Vicinity map in Appendix A, Figure 1.

Inventory

Classification	Linear Feet (LF)	Square Feet (SF)	Acres (Ac)
Streams	8,780	89,733.6	2.06
Relatively Permanent Waters (RPW)	18,055	72,745.2	1.67
Palustrine Forested Wetland (PFO)	N/A	243,936	5.60
Palustrine Emergent Wetland (PEM)	N/A	37,461.6	0.86

Inventory calculations are based off survey data provided by RES.

Project Report

Executive Summary

RES completed a Waters of the U.S. Delineation on May 10, 2018 in accordance with the *Corps of Engineers' Wetlands Delineation Manual* (U.S. Army Corps of Engineers, 1987), herein referred to as the 1987 Manual, to identify those areas that are most likely within the regulatory purview of the U.S. Army Corps of Engineers (USACE). Based on the on-site field investigation of the approximately 565.70-acre project area, RES has identified potential jurisdictional waters of the U.S. consisting of 8,780 +/- linear feet of streams, 18,055 +/- linear feet of relatively permanent waters, 5.60-acres of palustrine forested wetlands, and 0.86-acres of palustrine emergent wetlands.

Methodology

RES conducted the *Routine Determination for Areas Larger than Five Acres*, as described in the 1987 Manual, which follows a three-parameter approach to identifying wetlands based on the presence of hydrophytic vegetation, hydric soils, and wetland hydrology. All three parameters must be present for an area to be considered a jurisdictional wetland in accordance with Section 404 of the Clean Water Act. The specific procedures and criteria for determining the presence or absence of these parameters are presented in the *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Atlantic and Gulf Coastal Plain Region Version 2.0*, herein referred to as the AGCP Regional Supplement. Other WOUS are identified based on the presence of a high tide line or an ordinary high water mark (OHWM), pursuant to the definition of "waters of the U.S." under Title 33 Code of Federal Regulation Part 328. RES additionally assesses geomorphologic, hydrologic, and biological factors when identifying other WOUS.

Wetlands and other WOUS found on-site are classified according to the Cowardin system, as described in *Classification of Wetlands and Deepwater Habitats of the United States* (Cowardin et al., 1979). This is a hierarchical classification system used to organize and describe wetlands and deepwater habitats according to hydrologic, geomorphologic, chemical, and biological factors, and provides uniformity of concepts and terms to define these areas. A table that describes the Cowardin Classification System is provided in Appendix B.

Analysis

Resource Review:

Prior to the field investigation, RES performed a preliminary evaluation of the project area by obtaining and reviewing available natural resource information included in Appendix A; Fentress (VA) U.S. Geological Survey (USGS) quadrangle map (Figure 2), the U.S. Fish and Wildlife Service (USFWS) National Wetland Inventory (NWI) Map (Figure 3), aerial imagery of the project area (Figure 4), information from the U.S. Department of Agriculture (USDA) Natural Resource Conservation Service (NRCS) soil survey (Figure 5), and any available Geographic Information System (GIS) data.

According to the USGS Quadrangle Map provided with this report, no stream channel exists on-site but several of the agricultural ditches within the project limits are mapped on the National Wetland Inventory Map. The NRCS Soil Survey Information provided shows the project area to be entirely underlain by either hydric soils or soils that are known to contain hydric inclusions. Analysis of this information suggests that it is highly likely that stream and/or wetland resources exist within the project area. Accordingly, our offsite natural resource evaluation was corroborated with an on-site inspection to characterize vegetation, soils, and hydrology, and to define the boundaries of any potential WOUS, including wetlands, that may be present within the project limits.

Overall Site Conditions:

Topography on-site is associated with the headwater drainage network of Pocaty River, a tributary to North Landing River (Figure 4). The project area was previously used for agriculture and contains fallow fields and many large drainage ditches which drain into the Pocaty River. Bedford Street and Blue Ridge Road both transect the project area. The vegetative community for the project area is characterized as fallow field. Representative data for the project area was collected and is available for reference in Appendix C.

Vegetation:

Using the most recent available aerial imagery, a preliminary characterization of the vegetation communities was performed for the project area. Additional data was collected during the on-site investigation to verify the aerial extent and species composition within these communities. The wetland indicator status for each species was determined from *The 2016 National Wetland Plant List, version 3.3* (U.S. Army Corps of Engineers, 2016). The indicator status of a species indicates the probability that the species will occur in a wetland of the United States, which is defined in Table 1 below.

Table 1: Plant Indicator Status as per the 2016 National Plant List

Plant Indicator Category	Indicator Symbol	Definition
Obligate Wetland	OBL	Almost always occur in wetlands.
Facultative Wetland	FACW	Usually occur in wetlands, but may occur in nonwetlands.
Facultative	FAC	Occur in wetlands and non-wetlands
Facultative Upland	FACU	Usually occur in non-wetlands, but may occur in wetlands.
Obligate Upland	UPL	Almost never occur in wetlands.

The vegetative community for the project area is best characterized as a fallow field.

Soils:

A hydric soil is defined as "a soil that formed under conditions of saturation, flooding, or ponding long enough during the growing season to develop anaerobic conditions in the upper part" (Federal Register, July 13, 1994). Indicators of hydric soil conditions are predominantly formed by the reduction, translocation, and accumulation of iron or manganese, the reduction of sulfate, and/or the accumulation of organic material. The criteria used to identify hydric soils outlined in the AGCP Regional Supplement follow the NRCS *Field Indicators of Hydric Soils in the United States* (NRCS, 2016) and are primarily focused on the evaluation of the presence of organic material (e.g., muck or peat) or redoximorphic features (e.g., iron/manganese concentrations or depletions) within the soil profile.

In addition to soils mapping, the NRCS also publishes a national hydric soils list. Some state or county NRCS offices, or other local government entities, also produce local hydric soils lists, which when available, are preferred since they are typically more current and reflective of local variations in soil properties. Analysis of the available soils information shows that the entirety of the project area is underlain by either hydric soils or soils know to contain hydric inclusions (see the *Soils Map* included as Figure 5). All of the potential jurisdictional WOUS identified as part of this investigation are located in areas underlain by either soils that contain hydric inclusions or soils that are considered to be hydric.

Table 2 provides a summary of pertinent data for the soil units mapped on the project site.

Table 2: Soil descriptions from the NRCS Official Soil Series Description							
Map Unit Symbol	Map Unit Name	Soil Series	Component % of Map Unit	Taxonomic Subgroup	Drainage Class	Hydric Status	
1	Acredale silt loam	Acredale	90	Typic Endoaqualf	Poorly drained	Yes	
15	Deloss mucky fine sandy loam	Deloss	85	Typic Umbraquults	Very poorly drained	Yes	
		Deloss	35	Typic Umbraquults	Very poorly drained	Yes	
16	Deloss-Tomotley- Nimmo complex	Tomotley	30	Typic Endoaquults	Poorly drained	Yes	
		Nimmo	25	Typic Endoaquults	Poorly drained	Yes	
23	Gertie silt loam	Gertie	80	Typic Endoaquults	Poorly drained	Yes	

43	Tomotley-Deloss	Tomotley	55	Typic Endoaquults	Poorly drained	Yes
40	complex	Deloss	40	Typic Umbraquults	Very poorly drained	Yes
45	Tomotley-Nimmo	Tomotley	78	Typic Endoaquults	Poorly drained	Yes
45 complex	Nimmo	20	Typic Endoaquults	Poorly drained	Yes	
20	Dragston-Tomotley	Dragston	70	Aeric Endoaquults	Somewhat poorly drained	No
	complex	Tomotley	25	Typic Endoaquults	Poorly drained	Yes
25	Munden fine sandy loam	Muden	90	Aquic Hapludults	Moderaly well drained	No
	Tomotlov Portic	Tomtley	60	Typic Endoaquults	Poorly drained	Yes
42 Tomotley-Bertie complex	•	Bertie	35	Aeric Endoaquults	Somewhat poorly drained	No

During the field investigation, soil cores were taken to a depth of 18 inches to describe soil morphological characteristics in the upper part, also known as the solum. Soil characteristics including texture and color (hue, value, and chroma) were inspected for each sample. *Munsell Soil Color Charts* were used for determining the soil color. These results can be found within the Wetland Delineation Data Sheets (Appendix C).

Hydrology:

Indicators of wetland hydrology are used in conjunction with hydric soils and hydrophytic vegetation indicators to define the limits of wetlands according to the 1987 Manual and the Atlantic Gulf Coastal Plain (AGCP) Regional Supplement. However, while indicators of hydrophytic vegetation and hydric soils typically provide evidence that soil saturation or inundation has occurred with a frequency and duration sufficient to develop hydric soils and a wetland plant community, indicators of wetland hydrology provide evidence that these hydrologic conditions are continuing at that location, and that the hydric soils and hydrophytic vegetation are not reflective of a previous hydrologic regime. The 1987 Manual states that wetland hydrology encompasses all hydrologic characteristics of areas that are periodically inundated or have soils that are saturated to the surface at some time during the growing season. The evaluation of hydrology conditions during the growing season is important, since the hydrology regime present during that time will exert a controlling influence on the plant species present in a particular area.

The AGCP Regional Supplement divides wetland hydrology indicators into four categories; observation of soil saturation/inundation (Group A), evidence of recent inundation (Group B), evidence of recent soil saturation (Group C), and evidence from other site conditions or data (Group D). These indicators are also categorized as primary or secondary indicators, based on the estimated reliability of each within the region. The AGCP Regional Supplement requires the presence of at least one primary or two secondary indicators for the wetland hydrology parameter to be met. Primary hydrologic indicators include visual observation of inundation or soil saturation near the surface, or the presence of water-stained leaves, sediment deposits, algal mats, oxidized rhizospheres along living roots, or drift lines or watermarks on rocks and vegetation. Secondary hydrologic indicators include the presence of drainage patterns or other microtopographic features indicative of frequent saturation/inundation, moss trim lines, crayfish burrows, or a positive FAC-neutral test. Evidence of most of these indicators can be present even during dry periods, and therefore are useful indicators of the presence of wetland hydrology conditions.

Results

During the investigation, potential jurisdictional features are identified on-site and the boundaries are marked using pink wetland delineation tape. A Waters of the U.S. Delineation Map (Appendix D) depicts

the aerial extent of the potential jurisdictional features identified during the investigation. Additionally, data was collected on-site to characterize representative community types within the project limits and has been compiled in the Wetland Delineation Data Sheets. Data point locations can also be viewed on the attached Waters of the U.S. Delineation Map.

Potential Jurisdictional Features:

Potential jurisdictional features identified within the project area during this delineation are associated with the headwater drainage network of Pocaty River, a tributary to North Landing River. Several of the on-site features are agricultural ditches that have different jurisdictional classifications. In total, 10.19 +/- acres of waters of the U.S. exist on the approximately 565.70-acre site. Jurisdictional features identified within the project limits during RES's on-site investigation include 8,780 linear feet of stream channel, 18,055 linear feet of relatively permanent waters, 5.60-acres of palustrine forested wetlands and 0.86-acres of palustrine emergent wetlands.

The streams and relatively permanent waters within the ditches are the primary drainage features located within the project area. These features drained either directly or indirectly into Pocaty River at the southern end of the project area. A forested wetland is located on the western portion of the project site. Soils of this feature exhibited low-chroma of 10YR 5/2 with common 10YR 6/2 depletions in the matrix and few 10YR 5/8 concentrations in the matrix. The thickness and coloration of this layer are enough to meet to requirements for the Depleted Matrix (F3) hydric soil indicator. Vegetation observed was a predominance of FAC or wetter species such as; *Carpinus caroliniana* (ironwood), *Acer rubrum* (red maple), and *Quercus michauxii* (swamp chestnut oak). No hydrology was recorded.

For detailed information please refer to the Wetland Delineation Data Sheets in Appendix C and Waters of the U. S. Delineation Map in Appendix D.

Table 3 summarizes the data points that were collected during the field investigation:

Table 3: Data Point Summary Table

Data Point	Mapped Soil Unit	Hydrophytic Vegetation	Hydric Soils	Wetland Hydrology	Community ID
DP-1	1	No	No	No	Upland
DP-2	23	No	No	No	Upland
DP-3	16	No	No	No	Upland
DP-4	1	Yes	Yes	Yes	Wetland
DP-5	1	No	No	No	Upland
DP-6	1	No	No	No	Upland
DP-7	42	No	No	No	Upland
DP-8	45	No	No	No	Upland
DP-9	45	Yes	Yes	Yes	Wetland
DP-10	1	No	No	No	Upland

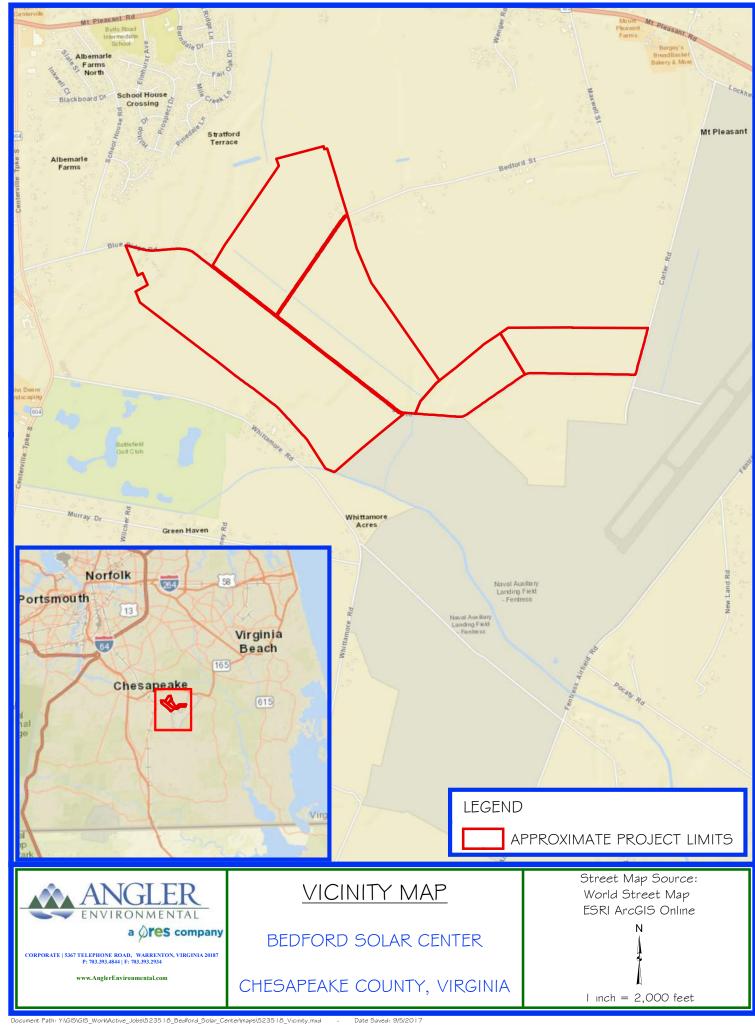
The location of the data points collected are shown on the Waters of the U.S. Delineation Map (Scale: 1" =400'). The data for each point and representative photographs are included in the Wetland Delineation Data Sheets.

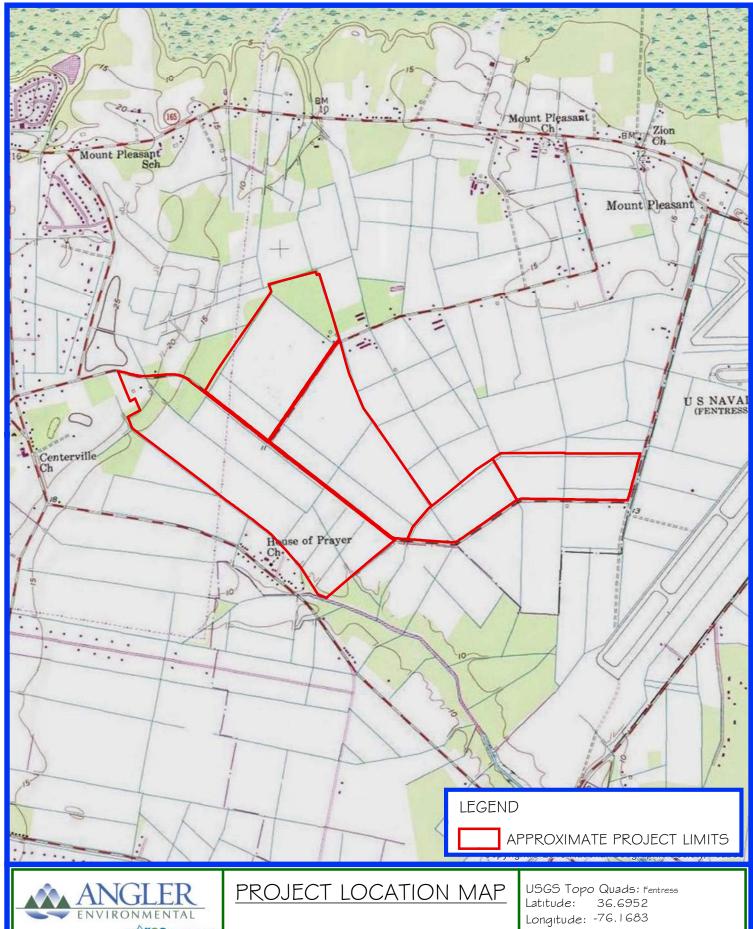
References

- Cowardin, L. M., V. Carter, F. C. Golet, E. T. LaRoe. 1979. *Classification of Wetlands and Deepwater Habitats of the United States*. U. S. Department of the Interior, Fish and Wildlife Service, Washington D.C.
- Lichvar, R.W., D.L Banks, W.N. Kirchner, and N.C. Melvin. 2016. *The National Wetland Plant List: 2016* Wetland Ratings. Phytoneuron 2016-30: 1-17.
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- U.S. Department of Agriculture, Natural Resources Conservation Service. 2016. Field Indicators of Hydric Soils in the United States, Version 8.0. L.M. Vasilas, G.W. Hurt, and J.F. Berkowitz (eds.). USDA, NRCS, in cooperation with the National Technical Committee for Hydric Soils.
- U.S. Department of Agriculture, Natural Resources Conservation Service, National Plant Data Team. The PLANTS Database. Available online at http://plants.usda.gov/. Accessed May 24, 2018.
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- U.S. Department of the Interior, Fish and Wildlife Service. National Wetlands Inventory website. Available online at http://www.fws.gov/wetlands/. Accessed May 24, 2018.

APPENDIX A FIGURES

VICINITY MAP, PROJECT LOCATION MAP, NATIONAL WETLAND INVENTORY MAP, AERIAL IMAGERY, SOILS MAP







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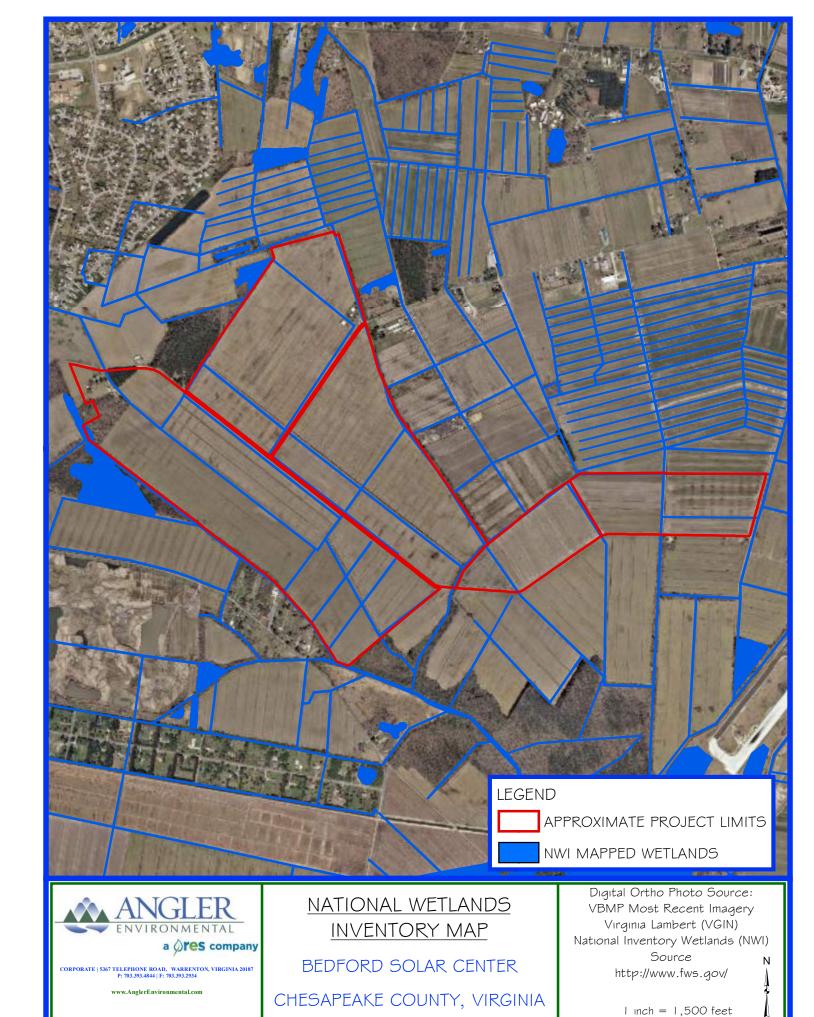
BEDFORD SOLAR CENTER

CHESAPEAKE COUNTY, VIRGINIA

Approx. Project Area: 565.70 acres Elevation: 10 - 22 feet

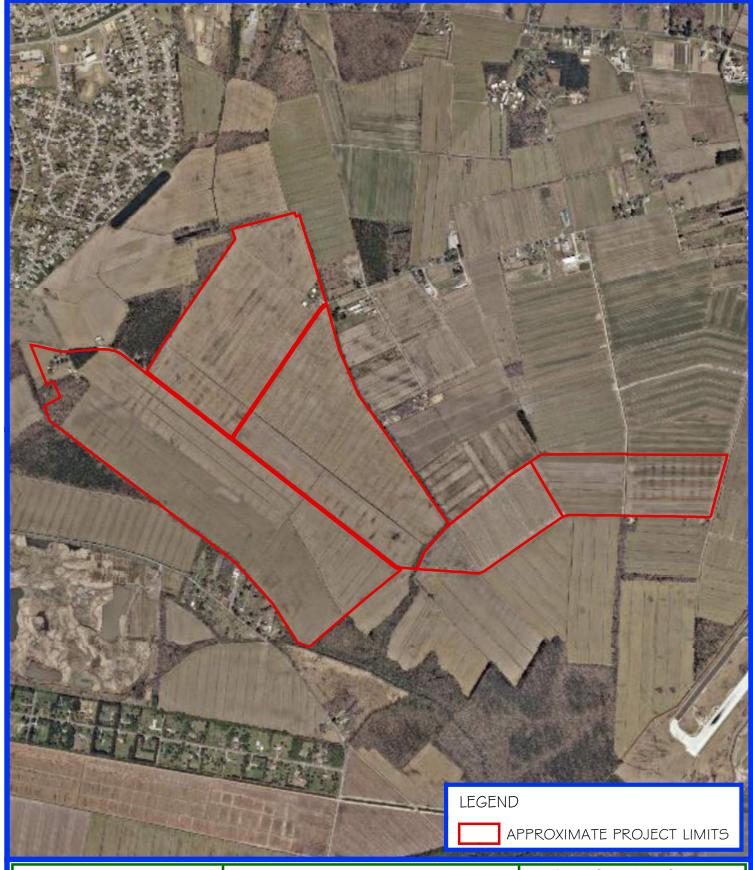
Scale: I inch = 2,000 feet Source: http://resources.arcgis.com/

USA Topo Maps



Occument Path: Y:\GIS\GIS_Work\Active_Jobs\5235|8_Bedford_Solar_Center\maps\5235|8_NWI.mxd

Date Saved: 9/5/2017





CORPORATE | 5367 TELEPHONE ROAD, WARRENTON, VIRGINIA 20187 P: 703.393.4844 | F: 703.393.2934

www.AnglerEnvironmental.com

AERIAL IMAGERY

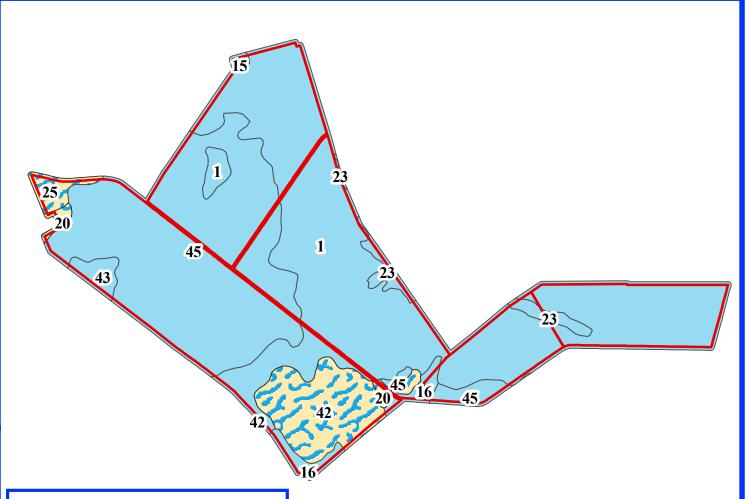
BEDFORD SOLAR CENTER

CHESAPEAKE COUNTY, VIRGINIA

Digital Orthophoto Source: VBMP Most Recent Imagery Virginia Lambert (VGIN)



 $l \cdot mch = 1,500 \cdot feet$



Hydric Soils:

- I Acredale silt loam
- 15 Deloss mucky fine sandy loam
- 16 Deloss-Tomotley-Nimmo complex
- 23 Gertie silt loam
- 43 Tomotley-Deloss complex
- 45 Tomotley-Nımmo complex

Soils with Hydric Inclusions:

- 20 Dragston-Tomotley complex
- 25 Munden fine sandy loam
- 42 Tomotley-Bertie complex

Non-hydric Soils:

NONE

Unknown Soil Type:

LEGEND



APPROXIMATE PROJECT LIMITS HYDRIC SOIL



X SOIL WITH HYDRIC INCLUSIONS

NON-HYDRIC SOIL



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SOILS MAP

BEDFORD SOLAR CENTER

CHESAPEAKE COUNTY, VIRGINIA

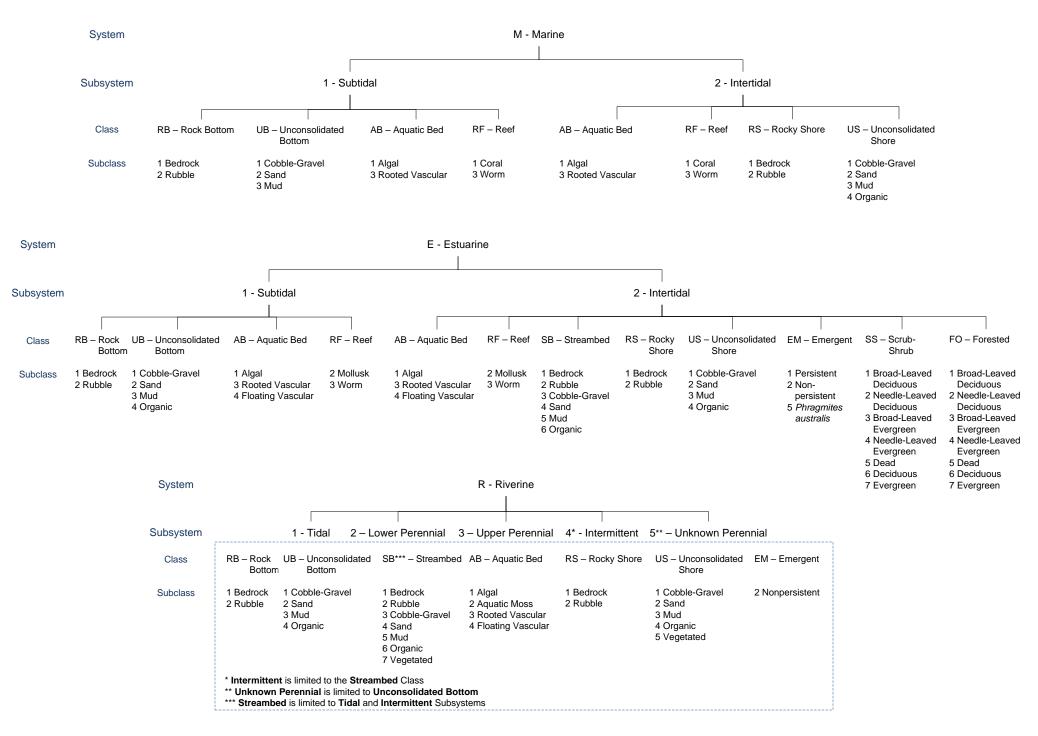
Source:

U.S. Department of Agriculture Natural Resources Conservation Service Soil Survey Geographic (SSURGO)

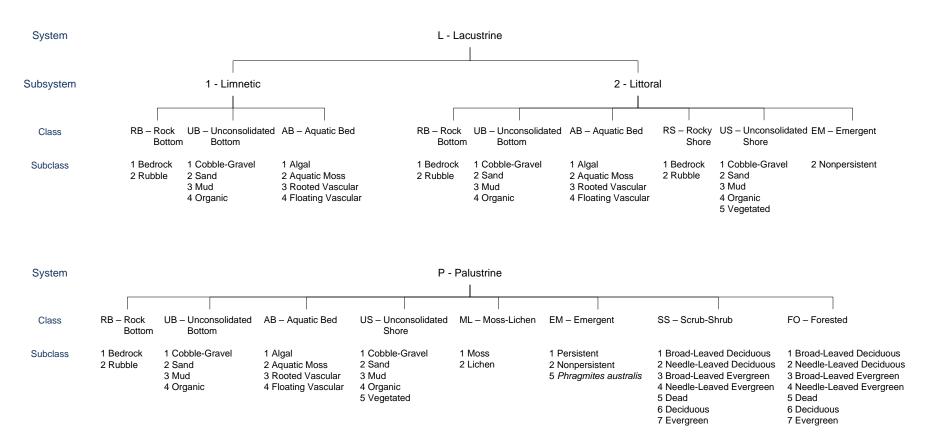
I inch = 1,500 feet

APPENDIX B COWARDIN SYSTEM OF WETLANDS AND DEEPWATER WATER HABITAT CLASSIFICATION

WETLANDS AND DEEPWATER HABITATS CLASSIFICATION



WETLANDS AND DEEPWATER HABITATS CLASSIFICATION



MODIFIERS In order to more adequately describe the wetland and deepwater habitats, one or more of the water regime, water chemistry, soil, or											
s	special modifiers may be applied at the class or lower level in the hierarchy. The farmed modifier may also be applied to the ecological system.										
	Water Regime	9	Special Modifiers	W	Water Chemistry						
Nontidal	Saltwater Tidal	Freshwater Tidal		Coastal Halinity	Inland Salinity	pH Modifiers for					
						all Fresh Water					
A Temporarily Flooded	L Subtidal	S Temporarily Flooded-Tidal	b Beaver	1 Hyperhaline	7 Hypersaline	a A cid	g Organic				
B Saturated	M Irregularly Exposed	R Seasonally Flooded-Tidal	d Partly Drained/Ditched	2 Euhaline	8 Eusaline	t Circumneutral	n M ineral				
C Seasonally Flooded	N Regularly Flooded	T Semipermanently Flooded-Tidal	f Farmed	3 M ixohaline (Brackish)	9 Mixosaline	I A Ikaline					
E Seasonally Flooded/	P Irregularly Flooded	V Permanently Flooded-Tidal	h Diked/Impounded	4 Polyhaline	0 Fresh						
Saturated			r Artificial	5 M esohaline							
F Semipermanently Flooded			s Spoil	6 Oligo haline							
G Intermittently Exposed			x Excavated	0 Fresh							
H Permanently Flooded											
J Intermittently Flooded											
K Artificially Flooded											

APPENDIX C WETLAND DELINEATION DATA SHEETS

Project/Site: Bedford Solar Center City/Co	Dunty: Chesapeake Sampling Date: 08-May-18									
Applicant/Owner: Coronal Energy	State: VA Sampling Point: 1									
Investigator(s): M. Molnar, K. Thomas Section	on, Township, Range: S T R									
Landform (hillslope, terrace, etc.): Flat Local r	elief (concave, convex, none): none Slope: 0.0 % / 0.0 °									
Subregion (LRR or MLRA): MLRA 153B in LRR T Lat.: 36.6957										
Soil Map Unit Name: 1 - Acredale silt loam	NWI classification: Upland									
Are climatic/hydrologic conditions on the site typical for this time of year?	Yes No (If no, explain in Remarks.)									
	V A									
	Are Normal en cambaness present.									
Are Vegetation, Soil, or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)										
SUMMARY OF FINDINGS - Attach site map showing sampling	g point locations, transects, important features, etc.									
Hydrophytic Vegetation Present? Yes ○ No ●	To the Camulad Area									
Hydric Soil Present? Yes ○ No ●	Is the Sampled Area Yes ○ No ●									
Wetland Hydrology Present? Yes ○ No ●	within a Wetland?									
Remarks:										
Remarks.										
HYDROLOGY										
Wetland Hydrology Indicators:	Secondary Indicators (minimum of 2 required)									
Primary Indicators (minimum of one required; check all that apply)	Surface Soil Cracks (B6)									
Surface Water (A1) Aquatic Fauna (B13)	Sparsely Vegetated Concave Surface (B8)									
High Water Table (A2) Marl Deposits (B15) (LRR										
☐ Saturation (A3) ☐ Hydrogen Sulfide Odor (C:										
☐ Water Marks (B1) ☐ Oxidized Rhizospheres alo										
Sediment Deposits (B2) Presence of Reduced Iron										
☐ Drift Deposits (B3) ☐ Recent Iron Reduction in T	· · · · · · · · · · · · · · · · · · ·									
☐ Algal Mat or Crust (B4) ☐ Thin Muck Surface (C7)	Geomorphic Position (D2)									
☐ Iron Deposits (B5) ☐ Other (Explain in Remarks										
☐ Inundation Visible on Aerial Imagery (B7)	FAC-Neutral Test (D5)									
☐ Water-Stained Leaves (B9)	Sphagnum moss (D8) (LRR T, U)									
Field Observations:										
Surface Water Present? Yes O No O Depth (inches):										
Water Table Present? Yes No Depth (inches):										
Saturation Present? Ves No • Denth (inches):	Wetland Hydrology Present? Yes ○ No ●									
(includes capillary fringe)										
Describe Recorded Data (stream gauge, monitoring well, aerial photos, prev	rious inspections), if available:									
Remarks:										

Sampling Point: 1 Species? Rel.Strat. Indicator Absolute Dominance Test worksheet: Tree Stratum (Plot size: _____) % Cover Status Cover **Number of Dominant Species** 1. _____ 20 **✓** 100.0% That are OBL, FACW, or FAC: 0 (A) ____0 0.0% **Total Number of Dominant** Species Across All Strata: (B) 0.0% Percent of dominant Species 0.0% 0.0% (A/B) That Are OBL, FACW, or FAC: 0.0% 0.0% **Prevalence Index worksheet:** 8. _____ ____0 0.0% Total % Cover of: Multiply by: OBL species 50% of Total Cover: 10 20% of Total Cover: 4 20 = **Total Cover** $0 \times 1 = 0$ FACW species 0 x 2 = Sapling or Sapling/Shrub Stratum (Plot size: 1. _______ $0 \times 3 =$ 0 FAC species 0 x 4 = 0 0.0% FACU species 3. __________ 0 0.0% <u>0</u> x 5 = -UPL species 0 0.0% Column Totals: 0 (A) 0 (B) 0.0% Prevalence Index = B/A = 0.000 6. _______ 0.0% **Hydrophytic Vegetation Indicators:** 0.0% 8. _____ 0 1 - Rapid Test for Hydrophytic Vegetation 50% of Total Cover: 0 20% of Total Cover: 0 0 = Total Cover 2 - Dominance Test is > 50% Shrub Stratum (Plot size: _____) \Box 3 - Prevalence Index is ≤3.0 1 _____0 Problematic Hydrophytic Vegetation ¹ (Explain) 0.0% 1 Indicators of hydric soil and wetland hydrology must 0.0% be present, unless disturbed or problematic. 0.0% **Definition of Vegetation Strata:** 5. ______<u>___</u> 6. ___ _____0 Tree - Woody plants, excluding woody vines, 0.0% approximately 20 ft (6 m) or more in height and 3 in. 50% of Total Cover: 0 20% of Total Cover: 0 0 = Total Cover (7.6 cm) or larger in diameter at breast height (DBH). Herb Stratum (Plot size: _____) Sapling - Woody plants, excluding woody vines, 0 approximately 20 ft (6 m) or more in height and less 0.0% than 3 in. (7.6 cm) DBH. Sapling/Shrub - Woody plants, excluding vines, less 0 0.0% than 3 in. DBH and greater than 3.28 ft (1m) tall. 0.0% 0.0% Shrub - Woody plants, excluding woody vines, 0 0.0% approximately 3 to 20 ft (1 to 6 m) in height. _____0 0.0% Herb - All herbaceous (non-woody) plants, including 0.0% herbaceous vines, regardless of size, and woody 0 0.0% plants, except woody vines, less than approximately 3 0 ft (1 m) in height. 0.0% 11.___ 0 12.____ 0.0% Woody vine - All woody vines, regardless of height. 0 _ _ 50% of Total Cover: 0 20% of Total Cover: 0 = Total Cover Woody Vine Stratum (Plot size: _____) 2. _____ 0.0% 0 0.0% 0.0% Hydrophytic 0 0.0% 5. -Vegetation Yes ○ No • 50% of Total Cover: ___0 ___ 20% of Total Cover: ___0 0 = Total Cover Present? Remarks: (If observed, list morphological adaptations below). Managed agricultural field *Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Profile Desc	ription: (De	scribe to	the depth	needed to	documen	t the indi	icator or c	onfirm the	e absence of indicators	5.)		
Depth		Matrix			Re	dox Featı	ures		_			
(inches)	Color (moist)	%	Color (moist)	<u>%</u>	Tvpe ¹	Loc2	Texture	Remarks		
0-10	10YR	4/1	100						Clay Loam			
10-18	5Y	5/1	95	10YR	5/6	5	С	М	Clay Loam			
	-			-								
				-								
	-			-				-	-			
1= 0.0	5											
	¹ Type: C=Concentration. D=Depletion. RM=Reduced Matrix, CS=Covered or Coated Sand Grains ² Location: PL=Pore Lining. M=Matrix Hydric Soil Indicators: Indicators for Problematic Hydric Soile ³ :											
									Indicators for Pro	blematic Hydric Soils ³ :		
Histosol (e (S8) (LRR		1 cm Muck (A9) (LRR O)		
·	pedon (A2)						(LRR S, T,		2 cm Muck (A1	0) (LRR S)		
Black His							F1) (LRR O)	Reduced Vertic	(F18) (outside MLRA 150A,B)		
	n Sulfide (A4)			Loa	my Gleyed	d Matrix (F	2)		☐ Piedmont Flood	lplain Soils (F19) (LRR P, S, T)		
	Layers (A5)				oleted Mat				Anomalous Brig	ht Loamy Soils (F20) (MLRA 153B)		
	Bodies (A6) (I		•			Surface (F6	•		Red Parent Mat	erial (TF2)		
	cky Mineral (A		P, T, U)	_		k Surface			☐ Very Shallow D	ark Surface (TF12)		
	Muck Presence (A8) (LRR U) Redox Depressions (F8)							Other (Explain	in Remarks)			
	ck (A9) (LRR				rl (F10) (L	-						
	Depleted Below Dark Surface (A11) Depleted Ochric (F11) (MLRA 151)											
	rk Surface (A	•					s (F12) (LR					
	irie Redox (A		-				RR P, T, U)				
	uck Mineral (S		D, S)			(F17) (MLF	-		3 _{Indicator}	s of hydrophytic vegetation and		
	eyed Matrix (S4)					1LRA 150A,		wetland hydrology must be present,			
Sandy Re								1LRA 149A)				
	Matrix (S6)			And	omalous B	right Loam	y Soils (F2	0) (MLRA 14	49A, 153C, 153D)			
☐ Dark Surf	face (S7) (LR	R P, S, T,	U)									
Restrictive L	aver (if ohe	erved).										
Type:	uyer (ii obs	_										
Depth (inc	hac):								Hydric Soil Present? Yes No •			
	.1165)					_						
Remarks:												
1												



Photo Path: C:\WetformOrig\Bedford Solar\Photos\



Photo File: P1010910.JPG Orientation:

-facing

Lat/Long or UTM : Long/Easting: -76.1683

Lat/Northing: 36.6952

Description:



Photo File: P1010911.JPG Orientation: -facing

Lat/Long or UTM: Long/Easting: 0

Lat/Northing: 0

Description:

Project/Site: Bedford Solar Center	City/County: Chesape	ake Sa	mpling Date: 08-May-18		
Applicant/Owner: Coronal Energy	State:	VA Sampling Point	nt: 2		
nvestigator(s): M. Molnar, K. Thomas	Section, Township, R	ange: S T	R		
andform (hillslope, terrace, etc.): Flat	Local relief (concave, c	onvex, none): none	Slope: 0.0 % / 0.0 °		
ubregion (LRR or MLRA): MLRA 153B in LRR T Lat.:	36.6952	Long.: -76.1683	Datum: NAD83		
oil Map Unit Name: 23 - Gertie silt loam		NWI classificat			
are climatic/hydrologic conditions on the site typical for this time of y	rear? Yes • No				
		"Normal Circumstances" pres	·		
		•	· Cite		
Are Vegetation , Soil , or Hydrology naturally	problematic? (If r	needed, explain any answers	in Remarks.)		
SUMMARY OF FINDINGS - Attach site map showing sa	ampling point locati	ons, transects, importa	ant features, etc.		
Hydrophytic Vegetation Present? Yes No No	To the Commiss	l Auga			
Hydric Soil Present? Yes ○ No ●	Is the Sample	nda Yes O No 💿			
Wetland Hydrology Present? Yes O No •	within a Wetla	nd? Tes UNO S			
Remarks:					
inclinates.					
HYDROLOGY					
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply)	\		(minimum of 2 required)		
Surface Water (A1) Aquatic Fauna (E		Surface Soil Crack	d Concave Surface (B8)		
High Water Table (A2) Marl Deposits (B	•	Drainage Patterns			
Saturation (A3) Hydrogen Sulfide		Moss Trim Lines (` '		
	pheres along Living Roots (C		,		
Sediment Deposits (B2)		Crayfish Burrows			
☐ Drift Deposits (B3) ☐ Recent Iron Red	uction in Tilled Soils (C6)	Saturation Visible	on Aerial Imagery (C9)		
Algal Mat or Crust (B4)	ce (C7)	Geomorphic Positi	ion (D2)		
☐ Iron Deposits (B5) ☐ Other (Explain in	n Remarks)	Shallow Aquitard (D3)			
Inundation Visible on Aerial Imagery (B7)		FAC-Neutral Test	(D5)		
Water-Stained Leaves (B9)		Sphagnum moss ((D8) (LRR T, U)		
Field Observations:					
Surface Water Present? Yes O No O Depth (inches)	:				
Water Table Present? Yes O No O Depth (inches)					
Saturation Present? (includes capillary fringe) Yes No Depth (inches)	: Wetl	and Hydrology Present?	Yes O No 🖲		
Describe Recorded Data (stream gauge, monitoring well, aerial pho) if available:			
Describe Recorded Data (stream gauge, monitoring well, denai pho	icos, previous inspections), ii avallabic.			
Remarks:					

Sampling Point: 2 Species? Rel.Strat. Indicator Absolute Dominance Test worksheet: Tree Stratum (Plot size: _____) % Cover Status Cover **Number of Dominant Species** 1. _____ 0 0.0% That are OBL, FACW, or FAC: 0 (A) 0 0.0% **Total Number of Dominant** Species Across All Strata: (B) 0.0% Percent of dominant Species 0.0% 0.0% (A/B) That Are OBL, FACW, or FAC: 0.0% 0.0% **Prevalence Index worksheet:** _____0 8. _____ 0.0% Total % Cover of: Multiply by: 50% of Total Cover: ___0 ___ 20% of Total Cover: ___0 ___ **0** ___ **= Total Cover** OBL species $0 \times 1 = 0$ FACW species 0 x 2 = Sapling or Sapling/Shrub Stratum (Plot size: _____) $0 \times 3 =$ 1. _______ 0 FAC species 0 x 4 = 0 0.0% FACU species 3. __________ 0 0.0% <u>0</u> x 5 = -UPL species 0 0.0% Column Totals: 0 (A) 0 (B) 0.0% Prevalence Index = B/A = 0.000 6. _______ 0.0% **Hydrophytic Vegetation Indicators:** 0.0% 8. _____ 0 1 - Rapid Test for Hydrophytic Vegetation 50% of Total Cover: 0 20% of Total Cover: 0 0 = Total Cover 2 - Dominance Test is > 50% Shrub Stratum (Plot size: _____) \Box 3 - Prevalence Index is ≤3.0 1 Problematic Hydrophytic Vegetation ¹ (Explain) 0.0% 1 Indicators of hydric soil and wetland hydrology must 0.0% be present, unless disturbed or problematic. 0.0% **Definition of Vegetation Strata:** 6. ___ _____0 Tree - Woody plants, excluding woody vines, 0.0% approximately 20 ft (6 m) or more in height and 3 in. 50% of Total Cover: 0 20% of Total Cover: 0 0 = Total Cover (7.6 cm) or larger in diameter at breast height (DBH). Herb Stratum (Plot size: _____) Sapling - Woody plants, excluding woody vines, 0 approximately 20 ft (6 m) or more in height and less 2. 0 0.0% than 3 in. (7.6 cm) DBH. Sapling/Shrub - Woody plants, excluding vines, less 0 0.0% than 3 in. DBH and greater than 3.28 ft (1m) tall. 5._________ 0.0% 0.0% Shrub - Woody plants, excluding woody vines, 0 0.0% approximately 3 to 20 ft (1 to 6 m) in height. _____0 0.0% Herb - All herbaceous (non-woody) plants, including 0.0% herbaceous vines, regardless of size, and woody 0 0.0% plants, except woody vines, less than approximately 3 0 ft (1 m) in height. 0.0% 0 12.____ 0.0% Woody vine - All woody vines, regardless of height. 0 _ _ 50% of Total Cover: 0 20% of Total Cover: 0 = Total Cover Woody Vine Stratum (Plot size: _____) 2. _____ 0.0% 0 0.0% 0.0% Hydrophytic 0 0.0% 5. -Vegetation Yes ○ No • 50% of Total Cover: ___0 ___ 20% of Total Cover: ___0 0 = Total Cover Present? Remarks: (If observed, list morphological adaptations below). Managed agricultural field *Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Profile Descr	ription: (De	scribe to	the depth	needed to	documen	t the indi	icator or c	onfirm the	absence of indicators.)		
Depth		Matrix			Re	dox Feati	ures		_			
(inches)	Color (moist)	%	Color	(moist)	%	Type 1	Loc2	Texture	Remarks		
0-12	10YR	4/1	100						Fine Sandy Clay			
12-18	2.5Y	5/2	97	10YR	5/8	3	С	М	Fine Sandy Clay			
	-			-				-	-			
	-			-								
-	-		-	-	-							
1 Type: C-Cen	contration D		n DM-Dod	ucod Matrix	CS-Cover	od or Cod	ed Sand C	raine 21 or	sation: DI – Doro Lining M	- Matrix		
		=Depletic	on. KM=Ked	uced Matrix,	CS=Cover	ed or Coal	ted Sand G	rains ²Loc	cation: PL=Pore Lining. M			
Hydric Soil									Indicators for Prob	lematic Hydric Soils ³ :		
Histosol (,						e (S8) (LRR		1 cm Muck (A9)	(LRR O)		
	pedon (A2)						(LRR S, T,		2 cm Muck (A10)			
Black Hist							F1) (LRR O))	Reduced Vertic (F18) (outside MLRA 150A,B)		
	Sulfide (A4))				d Matrix (F	2)			lain Soils (F19) (LRR P, S, T)		
	Layers (A5)				pleted Mat	. ,			Anomalous Brigh	t Loamy Soils (F20) (MLRA 153B)		
	Bodies (A6) (I		-			Surface (F6	•		Red Parent Mate	• •		
	cky Mineral (A		2, 1, 0)	_		k Surface			☐ Very Shallow Da	rk Surface (TF12)		
☐ Muck Presence (A8) (LRR U) ☐ Redox Depressions (F8) ☐ 1 cm Muck (A9) (LRR P, T) ☐ Mari (F10) (LRR U))		Other (Explain in	Remarks)			
			111		rl (F10) (L	-						
	Below Dark S		(11)				MLRA 151)					
	k Surface (A	•	A 150A)		-		s (F12) (LR					
	irie Redox (A						RR P, T, U)				
	uck Mineral (S		J, S)			(F17) (MLF	-	>	³ Indicators	of hydrophytic vegetation and		
	eyed Matrix (54)					/LRA 150A,		wetland	hydrology must be present,		
Sandy Re							odplain Soils (F19) (MLRA 149A) unless disturbed or problematic. ight Loamy Soils (F20) (MLRA 149A, 153C, 153D)					
	Matrix (S6)			∐ And	omalous B	right Loam	y Soils (F20)) (MLRA 14	49A, 153C, 153D)			
Dark Suri	ace (S7) (LR	K P, S, I,	U)									
Restrictive L	ayer (if obs	erved):										
Туре:												
Depth (inc	:hes):								Hydric Soil Present? Yes ○ No ●			
Remarks:												
Ī												



Photo File: P1010913.JPG Orientation: -facing

Lat/Long or UTM : Long/Easting: -76.1683

Lat/Northing: 36.6952

Description:



Photo File: P1010914.JPG Orientation: -facing

Lat/Long or UTM: Long/Easting: **0** Lat/Northing: **0**

Description:

_____-____

Project/Site: Bedford Solar Center	City/County: Chesapeake	Sampling Date: 08-May-18								
Applicant/Owner: Coronal Energy	State: VA	Sampling Point: 3								
Investigator(s): M. Molnar, K. Thomas	Section, Township, Range:	S T R								
Landform (hillslope, terrace, etc.): Flat	Local relief (concave, convex	c, none): none Slope: 0.0 % / 0.0								
	-	ong.: -76.1683								
	30.0932									
Soil Map Unit Name: 16 - Deloss-Tomotley-Nimmo complex	Yes No	NWI classification: Upland								
Are climatic/hydrologic conditions on the site typical for this time of ye		(If no, explain in Remarks.)								
Are Vegetation , Soil , or Hydrology significant	tly disturbed? Are "Norn	nal Circumstances" present? Yes Vo V								
Are Vegetation , Soil , or Hydrology naturally p	oroblematic? (If neede	d, explain any answers in Remarks.)								
SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.										
Hydrophytic Vegetation Present? Yes ○ No ●	To the Compled Aver									
Hydric Soil Present? Yes ○ No ●	Is the Sampled Area	Yes ○ No ●								
Wetland Hydrology Present? Yes ○ No •	within a Wetland?	res O NO O								
HYDROLOGY										
Wetland Hydrology Indicators:		Secondary Indicators (minimum of 2 required)								
Primary Indicators (minimum of one required; check all that apply)		Surface Soil Cracks (B6)								
Surface Water (A1) Aquatic Fauna (B	13)	Sparsely Vegetated Concave Surface (B8)								
☐ High Water Table (A2) ☐ Marl Deposits (B1		Drainage Patterns (B10)								
☐ Saturation (A3) ☐ Hydrogen Sulfide	Odor (C1)	Moss Trim Lines (B16)								
☐ Water Marks (B1) ☐ Oxidized Rhizospl	neres along Living Roots (C3)	Dry Season Water Table (C2)								
Sediment Deposits (B2)	ced Iron (C4)	Crayfish Burrows (C8)								
	iction in Tilled Soils (C6)	Saturation Visible on Aerial Imagery (C9)								
Algal Mat or Crust (B4)	e (C7)	Geomorphic Position (D2)								
☐ Iron Deposits (B5) ☐ Other (Explain in	Remarks)	☐ Shallow Aquitard (D3)								
☐ Inundation Visible on Aerial Imagery (B7)		☐ FAC-Neutral Test (D5)								
☐ Water-Stained Leaves (B9)		☐ Sphagnum moss (D8) (LRR T, U)								
Field Observations: Surface Water Present? Yes No Depth (inches):										
Water Table Present? Yes No Depth (inches):		ydrology Present? Yes O No 💿								
Saturation Present? (includes capillary fringe) Yes O No O Depth (inches):		yarology i resent:								
Describe Recorded Data (stream gauge, monitoring well, aerial phot	os, previous inspections), ii a	valiable.								

Sampling Point: 3 Species? Rel.Strat. Indicator Absolute Dominance Test worksheet: Tree Stratum (Plot size: _____) % Cover Status Cover **Number of Dominant Species** 1. _____ 0 0.0% That are OBL, FACW, or FAC: 0 (A) 0 0.0% **Total Number of Dominant** Species Across All Strata: (B) 0.0% Percent of dominant Species 0.0% 0.0% (A/B) That Are OBL, FACW, or FAC: 0.0% 0.0% **Prevalence Index worksheet:** _____0 8. _____ 0.0% Total % Cover of: Multiply by: 50% of Total Cover: ___0 ___ 20% of Total Cover: ___0 ___ **0** ___ **= Total Cover** OBL species $0 \times 1 = 0$ FACW species 0 x 2 = Sapling or Sapling/Shrub Stratum (Plot size: _____) $0 \times 3 =$ 1. _______ 0 FAC species 0 x 4 = 0 0.0% FACU species 3. __________ 0 0.0% <u>0</u> x 5 = -UPL species 0 0.0% Column Totals: 0 (A) 0 (B) 0.0% Prevalence Index = B/A = 0.000 6. _______ 0.0% **Hydrophytic Vegetation Indicators:** 0.0% 8. _____ 0 1 - Rapid Test for Hydrophytic Vegetation 50% of Total Cover: 0 20% of Total Cover: 0 0 = Total Cover 2 - Dominance Test is > 50% Shrub Stratum (Plot size: _____) \Box 3 - Prevalence Index is ≤3.0 1 _____0 Problematic Hydrophytic Vegetation ¹ (Explain) ____0 0.0% 1 Indicators of hydric soil and wetland hydrology must 0.0% be present, unless disturbed or problematic. 0.0% **Definition of Vegetation Strata:** 6. ___ _____0 Tree - Woody plants, excluding woody vines, 0.0% approximately 20 ft (6 m) or more in height and 3 in. 50% of Total Cover: 0 20% of Total Cover: 0 0 = Total Cover (7.6 cm) or larger in diameter at breast height (DBH). Herb Stratum (Plot size: _____) Sapling - Woody plants, excluding woody vines, 0 approximately 20 ft (6 m) or more in height and less 2. 0 0.0% than 3 in. (7.6 cm) DBH. Sapling/Shrub - Woody plants, excluding vines, less 0 0.0% than 3 in. DBH and greater than 3.28 ft (1m) tall. 5._________ 0.0% 0.0% Shrub - Woody plants, excluding woody vines, 0 0.0% approximately 3 to 20 ft (1 to 6 m) in height. _____0 0.0% Herb - All herbaceous (non-woody) plants, including 0.0% herbaceous vines, regardless of size, and woody 0 0.0% plants, except woody vines, less than approximately 3 0 ft (1 m) in height. 0.0% 0 12.____ 0.0% Woody vine - All woody vines, regardless of height. 0 _ _ 50% of Total Cover: 0 20% of Total Cover: 0 = Total Cover Woody Vine Stratum (Plot size: _____) 2. _____ 0.0% 0 0.0% 0.0% Hydrophytic 0 0.0% 5. -Vegetation Yes ○ No • 50% of Total Cover: ___0 ___ 20% of Total Cover: ___0 0 = Total Cover Present? Remarks: (If observed, list morphological adaptations below). Managed agricultural field *Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Profile Descr	iption: (De	scribe to	the depth	needed to	documen	t the indi	icator or c	onfirm the	absence of indicators.)		
Depth Matrix				Re	dox Featı			_			
(inches)	Color (moist)	%	Color	moist)	%_	Tvpe 1	Loc ²	Texture	Remarks	
0-8	10YR	4/1	100						Sandy Loam		
8-14	2.5Y	5/2	97	2.5Y	6/6	3	C	M	Sandy Loam		
14-18	2.5Y	5/1	97	10YR	6/8	3	C	M	Fine Sandy Clay Loam		
										,	
¹ Type: C=Concentration. D=Depletion. RM=Reduced Matrix, CS=Covered or Coated Sand Grains ² Location: PL=Pore Lining. M=Matrix											
Hydric Soil I	ndicators:								Indicators for Probl	ematic Hydric Soils ³ :	
Histosol (/	,			Pol	yvalue Bel	ow Surface	e (S8) (LRR	S, T, U)	1 cm Muck (A9) (I	LRR O)	
	pedon (A2)			Thi	n Dark Su	rface (S9)	(LRR S, T,	U)	2 cm Muck (A10)	(LRR S)	
Black Hist				Loa	my Mucky	Mineral (F	F1) (LRR O)		18) (outside MLRA 150A,B)	
Hydrogen	Sulfide (A4)			Loa	my Gleyed	d Matrix (F	2)			ain Soils (F19) (LRR P, S, T)	
Stratified	Layers (A5)			☐ De	pleted Mat	rix (F3)				Loamy Soils (F20) (MLRA 153B)	
Organic B	odies (A6) (L	LRR P, T, l	U)	☐ Red	dox Dark S	Surface (F6	5)		Red Parent Materi		
5 cm Muc	ky Mineral (A	47) (LRR P	P, T, U)	☐ De	pleted Dar	k Surface ((F7)		☐ Very Shallow Dark	` '	
☐ Muck Pres	sence (A8) (L	.RR U)		Red	dox Depres	ssions (F8)			Other (Explain in		
☐ 1 cm Muck (A9) (LRR P, T) ☐ Marl (F10) (LRR U)							Kelliai KS)				
Depleted Below Dark Surface (A11) Depleted Ochric (F11) (MLRA 151)											
Thick Dar	k Surface (A:	12)					s (F12) (LR				
Coast Prairie Redox (A16) (MLRA 150A) Umbric Surface (F13) (LRR P, T, U)											
Sandy Mu	ck Mineral (S	S1) (LRR C	D, S)			(F17) (MLR		,			
	yed Matrix (. ,				1LRA 150A,	150B)		of hydrophytic vegetation and	
Sandy Red		,						ILRA 149A)	wetland hydrology must be present, unless disturbed or problematic.		
	Matrix (S6)								49A, 153C, 153D)	distarbed of problematic.	
	ace (S7) (LRI	R P. S. T.	U)		Jilialous Di	rigite Louin	19 30113 (1 2	o) (NEION I	15A, 155C, 155D)		
	() (, =, .,	-,								
Da atolatica I	(if ala										
Restrictive La	-	ervea):									
Depth (incl									Hydric Soil Present?	Yes O No 🗨	
Remarks:											
Nemarks.											





Photo File: P1010919.JPG Orientation: -facing

Lat/Long or UTM : Long/Easting: -76.1683

Description:



Lat/Northing: 36.6952



Photo File: P1010920.JPG Orientation: -facing

Lat/Long or UTM: Long/Easting: 0

Lat/Northing: 0

Description:

Project/Site: Bedford Solar Center	City/County: Chesa	apeake	Sampling Date:	09-May-18						
Applicant/Owner: Coronal Energy	Stat	te: VA Samplii	ng Point: 4							
Investigator(s): M. Molnar, K. Thomas	Section, Township	, Range: S T	R							
Landform (hillslope, terrace, etc.): Flat	Local relief (concave	e, convex, none): none	Slope: (0.0 % / 0.0 °						
	36.6952	Long.: -76.1683		um: NAD83						
	30.0932			um						
Soil Map Unit Name: 1 - Acredale silt loam	ear? Yes •		sification: Wetland							
Are climatic/hydrologic conditions on the site typical for this time of ye	Jul .	(11 no, explain	·	No O						
Are Vegetation, Soil, or Hydrology significant	tly disturbed? A	Are "Normal Circumstances	s" present? Yes	NO C						
Are Vegetation , Soil , or Hydrology naturally	problematic? (If needed, explain any an	swers in Remarks.)							
SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.										
Hydrophytic Vegetation Present? Yes No	Is the Same	nlad Araa								
Hydric Soil Present? Yes No	Is the Samp	Voc (No ()							
Wetland Hydrology Present? Yes No	within a We	etland?								
Remarks:										
HYDROLOGY										
Wetland Hydrology Indicators:		Secondary Ind	cators (minimum of 2 re	quired)						
Primary Indicators (minimum of one required; check all that apply)		Surface So	Surface Soil Cracks (B6)							
Surface Water (A1) Aquatic Fauna (B		Sparsely Ve	egetated Concave Surfac	e (B8)						
High Water Table (A2) Marl Deposits (B1			atterns (B10)							
☐ Saturation (A3) ☐ Hydrogen Sulfide	` '		Lines (B16)							
	heres along Living Roots		Water Table (C2)							
Sediment Deposits (B2) Presence of Redu Deposits (B2)	` ,	_ `	irrows (C8)	()						
	uction in Tilled Soils (C6)		Visible on Aerial Imager	y (C9)						
☐ Algal Mat or Crust (B4) ☐ Thin Muck Surfac ☐ Iron Deposits (B5) ☐ Other (Explain in	` '		c Position (D2)							
☐ Iron Deposits (B5) ☐ Other (Explain in Inundation Visible on Aerial Imagery (B7)	Remarks)	☐ Shallow Aq	uitard (D3) al Test (D5)							
Water-Stained Leaves (B9)			moss (D8) (LRR T, U)							
Field Observations:		Spriagrium	moss (D6) (LRR 1, U)							
Surface Water Present? Yes No Depth (inches):	4									
	w	etland Hydrology Present	? Yes • No	\supset						
Saturation Present? (includes capillary fringe) Yes No Depth (inches):	0									
Describe Recorded Data (stream gauge, monitoring well, aerial phot	os, previous inspectiv	oris), ii avaiiabie.								

Sampling Point: 4 Species? Rel.Strat. Indicator Absolute Dominance Test worksheet: Tree Stratum (Plot size: _____) % Cover Status Cover **Number of Dominant Species** 1. _____ 0 0.0% That are OBL, FACW, or FAC: 0 (A) 0 0.0% **Total Number of Dominant** Species Across All Strata: (B) 0.0% Percent of dominant Species 0.0% 0.0% (A/B) That Are OBL, FACW, or FAC: 0.0% 0.0% **Prevalence Index worksheet:** _____0 8. _____ 0.0% Total % Cover of: Multiply by: 50% of Total Cover: ___0 ___ 20% of Total Cover: ___0 ___ **0** ___ **= Total Cover** OBL species $0 \times 1 = 0$ FACW species 0 x 2 = Sapling or Sapling/Shrub Stratum (Plot size: _____) $0 \times 3 =$ 1. _______ 0 FAC species 0 x 4 = 0 0.0% FACU species 3. __________ 0 0.0% <u>0</u> x 5 = -UPL species 0 0.0% Column Totals: 0 (A) 0 (B) 0.0% Prevalence Index = B/A = 0.000 6. _______ 0.0% **Hydrophytic Vegetation Indicators:** 0.0% 8. _____ 0 ■ 1 - Rapid Test for Hydrophytic Vegetation 50% of Total Cover: 0 20% of Total Cover: 0 0 = Total Cover 2 - Dominance Test is > 50% Shrub Stratum (Plot size: _____) \Box 3 - Prevalence Index is ≤3.0 1 ✓ Problematic Hydrophytic Vegetation ¹ (Explain) _____0 0.0% 1 Indicators of hydric soil and wetland hydrology must 0.0% be present, unless disturbed or problematic. 0.0% **Definition of Vegetation Strata:** 5. ______<u>___</u> 6. ___ _____0 Tree - Woody plants, excluding woody vines, 0.0% approximately 20 ft (6 m) or more in height and 3 in. 50% of Total Cover: 0 20% of Total Cover: 0 0 = Total Cover (7.6 cm) or larger in diameter at breast height (DBH). Herb Stratum (Plot size: _____) Sapling - Woody plants, excluding woody vines, 0 approximately 20 ft (6 m) or more in height and less 2. 0 0.0% than 3 in. (7.6 cm) DBH. Sapling/Shrub - Woody plants, excluding vines, less 0 0.0% than 3 in. DBH and greater than 3.28 ft (1m) tall. 5._________ 0.0% 0.0% Shrub - Woody plants, excluding woody vines, 0 0.0% approximately 3 to 20 ft (1 to 6 m) in height. _____0 0.0% Herb - All herbaceous (non-woody) plants, including 0.0% herbaceous vines, regardless of size, and woody 0 0.0% plants, except woody vines, less than approximately 3 0 ft (1 m) in height. 0.0% 11.___ 0 12.____ 0.0% Woody vine - All woody vines, regardless of height. 0 _ _ 50% of Total Cover: 0 20% of Total Cover: 0 = Total Cover Woody Vine Stratum (Plot size: _____) 2. _____ 0.0% 0 0.0% 0.0% Hydrophytic 0 0.0% 5. -Vegetation Yes ● No ○ 50% of Total Cover: 0 20% of Total Cover: 0 0 = Total Cover Present? Remarks: (If observed, list morphological adaptations below). Managed farm field *Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Profile Descr	iption: (De	scribe to	the depth	needed to	documen	t the indi	cator or c	onfirm the	e absence of indicators	5.)		
Depth		Matrix Redox Features							_			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks		
0-6	7.5YR	5/1	100						Clay Loam			
6-18	10YR	6/1	90	10YR	5/6	10	С	М	Clay Loam			
	-				-							
						_						
1 Type: C=Cond	centration. D	=Depletic	n. RM=Red	uced Matrix.	CS=Cover	ed or Coat	ed Sand G	rains 2lo	cation: PL=Pore Lining. I	M=Matrix		
Hydric Soil I		2 оргосто		acca : .aa,								
Histosol (□ Poly	مراديم همار	ow Surface	e (S8) (LRR	S T 11)		oblematic Hydric Soils ³ :		
l — `	pedon (A2)						(SO) (LIKK (LRR S, T,		1 cm Muck (A9			
☐ Black Hist							=1) (LRR O		2 cm Muck (A1			
_	Sulfide (A4)					d Matrix (F		,		(F18) (outside MLRA 150A,B)		
	Layers (A5)				leted Mat		_,			Iplain Soils (F19) (LRR P, S, T)		
_	odies (A6) (L	RR P, T,	U)			urface (F6)		Red Parent Mai	ht Loamy Soils (F20) (MLRA 153B)		
	ky Mineral (A					k Surface (•			ark Surface (TF12)		
	sence (A8) (L					ssions (F8)			Other (Explain			
☐ 1 cm Muck (A9) (LRR P, T) ☐ Marl (F10) (LRR U)								iii Reiliaiks)				
☐ Depleted	Below Dark 9	Surface (A	11)				MLRA 151)	1				
☐ Thick Dar	k Surface (A:	12)					s (F12) (LR					
Coast Pra	Coast Prairie Redox (A16) (MLRA 150A) Umbric Surface (F13) (LRR P, T, U)											
Sandy Mu	ıck Mineral (S	S1) (LRR (), S)	☐ Delf	ta Ochric ((F17) (MLR	RA 151)		3			
Sandy Gle	eyed Matrix (S4)		Red	luced Vert	ic (F18) (N	1LRA 150A,	, 150B)	³ Indicators of hydrophytic vegetation and wetland hydrology must be present,			
Sandy Re	dox (S5)			Pied	dmont Floo	odplain So	ils (F19) (M	1LRA 149A)		ss disturbed or problematic.		
Stripped I	Matrix (S6)			And	malous Br	right Loam	y Soils (F2	0) (MLRA 1	49A, 153C, 153D)			
☐ Dark Surf	ace (S7) (LRI	R P, S, T,	U)									
Restrictive L	aver (if ohs	erved):										
Type:	uyer (ii obs	_										
Depth (inc	hes):								Hydric Soil Present? Yes No			
Remarks:	1103)1											
Remarks.												



Photo File: P1010928.JPG

Orientation:

-facing

Lat/Long or UTM: Long/Easting: -76.1683

Lat/Northing: 36.6952

Description:



Photo File: P1010929.JPG

Orientation:

-facing

Lat/Long or UTM: Long/Easting: 0

Lat/Northing: 0

Description:

Project/Site: Bedford Solar Center	City/County: Chesapeake	Sampling Date: 09-May-18								
Applicant/Owner: Coronal Energy	State: VA	Sampling Point: 5								
Investigator(s): M. Molnar, K. Thomas	Section, Township, Range	e: S T R								
Landform (hillslope, terrace, etc.): Flat	Local relief (concave, conve	ex, none): none Slope: 0.0 % / 0.0 °								
		Long.: -76.1683 Datum: NAD83								
	30.0332									
Soil Map Unit Name: 1 - Acredale silt loam	Yes No O	NWI classification: Upland								
Are climatic/hydrologic conditions on the site typical for this time of ye		(If no, explain in Remarks.)								
Are Vegetation, Soil, or Hydrology significant	ly disturbed? Are "Nor	rmal Circumstances" present? Yes Vo No V								
Are Vegetation , Soil , or Hydrology naturally p	oroblematic? (If need	ed, explain any answers in Remarks.)								
SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.										
Hydrophytic Vegetation Present? Yes ○ No ●	To the Commission Am									
Hydric Soil Present? Yes ○ No ●	Is the Sampled Are	ea Yes ○ No ●								
Wetland Hydrology Present? Yes ○ No •	within a Wetland?	res Uno U								
Remarks:										
HYDROLOGY										
Wetland Hydrology Indicators:		Secondary Indicators (minimum of 2 required)								
Primary Indicators (minimum of one required; check all that apply)		Surface Soil Cracks (B6)								
Surface Water (A1) Aquatic Fauna (B		Sparsely Vegetated Concave Surface (B8)								
High Water Table (A2) Marl Deposits (B1		Drainage Patterns (B10)								
Saturation (A3) Hydrogen Sulfide	` '	Moss Trim Lines (B16)								
	neres along Living Roots (C3)	☐ Dry Season Water Table (C2)								
	cea fron (C4) ction in Tilled Soils (C6)	Crayfish Burrows (C8)								
		Saturation Visible on Aerial Imagery (C9)								
	` ,	☐ Geomorphic Position (D2) ☐ Shallow Aquitard (D3)								
Iron Deposits (B5) Uther (Explain in Inundation Visible on Aerial Imagery (B7)	Remarks)	FAC-Neutral Test (D5)								
Water-Stained Leaves (B9)		Sphagnum moss (D8) (LRR T, U)								
Field Observations:		Springfrum moss (20) (Erric 1, 0)								
Surface Water Present? Yes No Depth (inches):										
Water Table Present? Yes No Depth (inches):										
	Wetland	Hydrology Present? Yes O No 💿								
(includes capillary fringe) Yes V NO Depth (inches):										
Describe Recorded Data (stream gauge, monitoring well, aerial phot										

Sampling Point: 5 Species? Rel.Strat. Indicator Absolute Dominance Test worksheet: Tree Stratum (Plot size: _____) % Cover Status Cover **Number of Dominant Species** 1. _____ 0 0.0% That are OBL, FACW, or FAC: 0 (A) 0 0.0% **Total Number of Dominant** Species Across All Strata: (B) 0.0% Percent of dominant Species 0.0% 0.0% (A/B) That Are OBL, FACW, or FAC: 0.0% 0.0% **Prevalence Index worksheet:** _____0 8. _____ 0.0% Total % Cover of: Multiply by: 50% of Total Cover: ___0 ___ 20% of Total Cover: ___0 ___ **0** ___ **= Total Cover** OBL species $0 \times 1 = 0$ FACW species 0 x 2 = Sapling or Sapling/Shrub Stratum (Plot size: _____) $0 \times 3 =$ 1. _______ 0 FAC species 0 x 4 = 0 0.0% FACU species 3. __________ 0 0.0% <u>0</u> x 5 = -UPL species 0 0.0% Column Totals: 0 (A) 0 (B) 0.0% Prevalence Index = B/A = 0.000 6. _______ 0.0% **Hydrophytic Vegetation Indicators:** 0.0% 8. _____ 0 1 - Rapid Test for Hydrophytic Vegetation 50% of Total Cover: 0 20% of Total Cover: 0 0 = Total Cover 2 - Dominance Test is > 50% Shrub Stratum (Plot size: _____) \Box 3 - Prevalence Index is ≤3.0 1 _____0 Problematic Hydrophytic Vegetation ¹ (Explain) ____0 0.0% 1 Indicators of hydric soil and wetland hydrology must 0.0% be present, unless disturbed or problematic. 0.0% **Definition of Vegetation Strata:** 6. ___ _____0 Tree - Woody plants, excluding woody vines, 0.0% approximately 20 ft (6 m) or more in height and 3 in. 50% of Total Cover: 0 20% of Total Cover: 0 0 = Total Cover (7.6 cm) or larger in diameter at breast height (DBH). Herb Stratum (Plot size: _____) Sapling - Woody plants, excluding woody vines, 0 approximately 20 ft (6 m) or more in height and less 2. 0 0.0% than 3 in. (7.6 cm) DBH. Sapling/Shrub - Woody plants, excluding vines, less 0 0.0% than 3 in. DBH and greater than 3.28 ft (1m) tall. 5._________ 0.0% 0.0% Shrub - Woody plants, excluding woody vines, 0 0.0% approximately 3 to 20 ft (1 to 6 m) in height. _____0 0.0% Herb - All herbaceous (non-woody) plants, including 0.0% herbaceous vines, regardless of size, and woody 0 0.0% plants, except woody vines, less than approximately 3 0 ft (1 m) in height. 0.0% 0 12.____ 0.0% Woody vine - All woody vines, regardless of height. 0 _ _ 50% of Total Cover: 0 20% of Total Cover: 0 = Total Cover Woody Vine Stratum (Plot size: _____) 2. _____ 0.0% 0 0.0% 0.0% Hydrophytic 0 0.0% 5. -Vegetation Yes ○ No • 50% of Total Cover: ___0 ___ 20% of Total Cover: ___0 0 = Total Cover Present? Remarks: (If observed, list morphological adaptations below). Managed agricultural field *Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Profile Descr	iption: (De	scribe to	the depth	needed to	documen	t the indi	cator or c	onfirm the	absence of indicators.)		
Depth	Depth <u>Matrix</u>				Red	dox Featu					
(inches)	Color (moist)	%	Color (moist)	%_	Tvpe 1	Loc ²	Texture	Remarks	
0-3	10YR	4/1	100						Clay Loam		
3-6	2.5Y	4/1	100	-					Clay Loam		
6-18	2.5Y	5/1	97	10YR	5/6	3	C	M	Clay Loam		
-	-	-		-					-		
¹ Type: C=Cond	centration. D	=Depletio	n. RM=Red	uced Matrix,	CS=Cover	ed or Coat	ed Sand G	rains ² Loc	cation: PL=Pore Lining. M=		
Hydric Soil I	ndicators:								Indicators for Prob	lematic Hydric Soils ³ :	
Histosol (A1)			☐ Pol	yvalue Belo	ow Surface	e (S8) (LRR	S, T, U)	1 cm Muck (A9) (<u>-</u>	
Histic Epip	oedon (A2)			☐ Thi	n Dark Sur	face (S9)	(LRR S, T,	U)	2 cm Muck (A10)		
☐ Black Hist	ic (A3)			Loa	my Mucky	Mineral (F	1) (LRR O)		F18) (outside MLRA 150A,B)	
Hydrogen	Sulfide (A4)			Loa	my Gleyed	Matrix (F	2)			ain Soils (F19) (LRR P, S, T)	
Stratified	Layers (A5)			☐ Dej	pleted Mati	rix (F3)				: Loamy Soils (F20) (MLRA 153B)	
Organic B	odies (A6) (L	RR P, T, l	U)	Rec	dox Dark S	urface (F6)		Red Parent Mater	, , , , ,	
5 cm Muc	ky Mineral (A	47) (LRR P	P, T, U)	☐ Dei	pleted Darl	k Surface (F7)		Very Shallow Dar	` '	
☐ Muck Pres	sence (A8) (L	RR U)		Red	dox Depres	sions (F8)			Other (Explain in		
1 cm Muck (A9) (LRR P, T) Marl (F10) (LRR U)							Other (Explain in	Kemarks)			
Depleted Below Dark Surface (A11) Depleted Ochric (F11) (MLRA 151)											
☐ Thick Dar	k Surface (A:	12)		Iro	n-Mangane	ese Masses	(F12) (LR	R O, P, T)			
Coast Prai	irie Redox (A	16) (MLRA	A 150A)	Um	bric Surfac	ce (F13) (L	RR P, T, U)			
Sandy Mu	ck Mineral (S	61) (LRR C), S)	☐ Del	lta Ochric (F17) (MLR	A 151)		2		
Sandy Gle	yed Matrix (S4)		☐ Red	duced Verti	ic (F18) (M	ILRA 150A	, 150B)		of hydrophytic vegetation and hydrology must be present,	
Sandy Red	dox (S5)			Pie	dmont Floo	odplain Soi	ls (F19) (M	1LRA 149A)			
Stripped N	Matrix (S6)			And	omalous Br	ight Loam	y Soils (F2	0) (MLRA 14	19A, 153C, 153D)		
Dark Surfa	ace (S7) (LRI	R P, S, T,	U)								
Restrictive La	ayer (if obs	erved):									
Туре:		_									
Depth (inc	hes):								Hydric Soil Present?	Yes O No 💿	
Remarks:											
- tomanto											
I											



Photo File: P	1010931.JPG	Orientation:	-facing
_at/Long or UTM :	Long/Easting	-76.1683	Lat/Northing: 36.6952
Description:			

No Photo

Photo File: No	one.bmp	Orientation:		-facing
Lat/Long or UTM:	Long/Easting: 0		Lat/Northing: 0	
Description:				

Project/Site: Bedford Solar Center	City/County: Chesapeake	Sampling Date: 09-May-18		
Applicant/Owner: Coronal Energy	State: VA	Sampling Point: 6		
Investigator(s): M. Molnar, K. Thomas	Section, Township, Range	e: S T R		
Landform (hillslope, terrace, etc.): Flat	Local relief (concave, conve	ex, none): none Slope: 0.0 % / 0.0 °		
		Long.: -76.1683 Datum: NAD83		
	30.0932			
Soil Map Unit Name: 1 - Acredale silt loam	Yes No O	NWI classification: Upland		
Are climatic/hydrologic conditions on the site typical for this time of ye		(If no, explain in Remarks.)		
Are Vegetation . , Soil . , or Hydrology . significant	ly disturbed? Are "Nor	mal Circumstances" present? Yes Vo No		
Are Vegetation , Soil , or Hydrology naturally p	oroblematic? (If need	ed, explain any answers in Remarks.)		
SUMMARY OF FINDINGS - Attach site map showing sa	mpling point locations	s, transects, important features, etc.		
Hydrophytic Vegetation Present? Yes ○ No ●	To the Commission Ave	_		
Hydric Soil Present? Yes ○ No ●	Is the Sampled Are	d Area da Yes ○ No ◉		
Wetland Hydrology Present? Yes ○ No •	within a Wetland?	res Uno S		
Remarks:				
HYDROLOGY				
Wetland Hydrology Indicators:		Secondary Indicators (minimum of 2 required)		
Primary Indicators (minimum of one required; check all that apply)		Surface Soil Cracks (B6)		
Surface Water (A1) Aquatic Fauna (B		Sparsely Vegetated Concave Surface (B8)		
High Water Table (A2) Marl Deposits (B1		Drainage Patterns (B10)		
Saturation (A3) Hydrogen Sulfide	` '	Moss Trim Lines (B16)		
	neres along Living Roots (C3)	☐ Dry Season Water Table (C2)		
	cea fron (C4) ction in Tilled Soils (C6)	Crayfish Burrows (C8)		
		Saturation Visible on Aerial Imagery (C9)		
Iron Deposits (B5) Uther (Explain in Inundation Visible on Aerial Imagery (B7)	Remarks)	FAC-Neutral Test (D5)		
Water-Stained Leaves (B9)		Sphagnum moss (D8) (LRR T, U)		
Field Observations:		Springfrum moss (20) (Erik 1, 0)		
Surface Water Present? Yes No Depth (inches):				
Water Table Present? Yes No Depth (inches):				
	Wetland I	Hydrology Present? Yes O No 🖲		
(includes capillary fringe) Yes V NO Depth (inches):				
Describe Recorded Data (stream gauge, monitoring well, aerial phot				

Sampling Point: 6 Species? Rel.Strat. Indicator Absolute Dominance Test worksheet: Tree Stratum (Plot size: _____) % Cover Status Cover **Number of Dominant Species** 1. _____ 0 0.0% That are OBL, FACW, or FAC: 0 (A) 0 0.0% **Total Number of Dominant** Species Across All Strata: (B) 0.0% Percent of dominant Species 0.0% 0.0% (A/B) That Are OBL, FACW, or FAC: 0.0% 0.0% **Prevalence Index worksheet:** 8. _____ _____0 0.0% Total % Cover of: Multiply by: 50% of Total Cover: ___0 ___ 20% of Total Cover: ___0 ___ **0** ___ **= Total Cover** OBL species $0 \times 1 = 0$ FACW species 0 x 2 = Sapling or Sapling/Shrub Stratum (Plot size: _____) $0 \times 3 =$ 1. _______ 0 FAC species 0 x 4 = 0 0.0% FACU species 3. __________ 0 0.0% <u>0</u> x 5 = -UPL species 0 0.0% Column Totals: 0 (A) 0 (B) 0.0% Prevalence Index = B/A = 0.000 6. _______ 0.0% **Hydrophytic Vegetation Indicators:** 0.0% 8. _____ 0 1 - Rapid Test for Hydrophytic Vegetation 50% of Total Cover: 0 20% of Total Cover: 0 0 = Total Cover 2 - Dominance Test is > 50% Shrub Stratum (Plot size: _____) \Box 3 - Prevalence Index is ≤3.0 1 Problematic Hydrophytic Vegetation ¹ (Explain) ____0 0.0% 1 Indicators of hydric soil and wetland hydrology must 0.0% be present, unless disturbed or problematic. 0.0% **Definition of Vegetation Strata:** 6. ___ _____0 Tree - Woody plants, excluding woody vines, 0.0% approximately 20 ft (6 m) or more in height and 3 in. 50% of Total Cover: 0 20% of Total Cover: 0 0 = Total Cover (7.6 cm) or larger in diameter at breast height (DBH). Herb Stratum (Plot size: _____) Sapling - Woody plants, excluding woody vines, 0 approximately 20 ft (6 m) or more in height and less 2. 0 0.0% than 3 in. (7.6 cm) DBH. Sapling/Shrub - Woody plants, excluding vines, less 0 0.0% than 3 in. DBH and greater than 3.28 ft (1m) tall. 5._________ 0.0% 0.0% Shrub - Woody plants, excluding woody vines, 0 0.0% approximately 3 to 20 ft (1 to 6 m) in height. _____0 0.0% Herb - All herbaceous (non-woody) plants, including 0.0% herbaceous vines, regardless of size, and woody 0 0.0% plants, except woody vines, less than approximately 3 0 ft (1 m) in height. 0.0% 0 12.____ 0.0% Woody vine - All woody vines, regardless of height. 0 _ _ 50% of Total Cover: 0 20% of Total Cover: 0 = Total Cover Woody Vine Stratum (Plot size: _____) 2. _____ 0.0% 0 0.0% 0.0% Hydrophytic 0 0.0% 5. -Vegetation Yes ○ No • 50% of Total Cover: ___0 ___ 20% of Total Cover: ___0 0 = Total Cover Present? Remarks: (If observed, list morphological adaptations below). Managed agricultural field *Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)												
Depth		Matrix				dox Featı	ures		_			
(inches)	Color (moist)	%	Color (moist)	%	Tvpe ¹	Loc2	Texture	Remarks		
0-10	2.5Y	3/2	100						Clay Loam			
10-18	2.5Y	4/1	97	10YR	5/6	3	С	М	Clay Loam			
		-			-							
	-											
					-			-				
1= 0.0	5											
		=Depletio	n. RM=Red	uced Matrix,	CS=Cover	ed or Coat	ted Sand G	rains ² Loo	cation: PL=Pore Lining. I	M=Matrix		
Hydric Soil I									Indicators for Pro	oblematic Hydric Soils ³ :		
Histosol (•						e (S8) (LRR		1 cm Muck (A9) (LRR O)		
	pedon (A2)						(LRR S, T,		2 cm Muck (A1	0) (LRR S)		
Black Hist							F1) (LRR O)	Reduced Vertic	(F18) (outside MLRA 150A,B)		
	Sulfide (A4))				d Matrix (F	2)		☐ Piedmont Flood	Iplain Soils (F19) (LRR P, S, T)		
	Layers (A5)			'	leted Mat	` '			Anomalous Brig	ght Loamy Soils (F20) (MLRA 153B)		
	Bodies (A6) (I		•			urface (F6	•		Red Parent Material (TF2)			
	ky Mineral (A		P, T, U)			k Surface			☐ Very Shallow D	ark Surface (TF12)		
	sence (A8) (l			☐ Red	lox Depres	ssions (F8))		Other (Explain	in Remarks)		
	1 cm Muck (A9) (LRR P, T)				l (F10) (LI	-						
	Below Dark S		11)	☐ Dep	leted Och	ric (F11) (MLRA 151)					
	k Surface (A	•		Iror	n-Mangane	ese Masses	s (F12) (LR	R O, P, T)				
	irie Redox (A			Uml	bric Surfac	ce (F13) (l	RR P, T, U)	³ Indicators of hydrophytic vegetation and wetland hydrology must be present,			
	ıck Mineral (), S)	Delt	ta Ochric ((F17) (MLF	RA 151)					
	eyed Matrix (S4)		Red	luced Vert	ic (F18) (N	1LRA 150A	, 150B)				
	Sandy Redox (S5) Piedmont Floodplain S					odplain So	ils (F19) (M	1LRA 149A)				
	Matrix (S6)			Ano	malous Br	right Loam	y Soils (F2	0) (MLRA 14	49A, 153C, 153D)			
☐ Dark Surf	ace (S7) (LR	R P, S, T,	U)									
Restrictive L	aver (if obs	erved):										
Type:	, (020	_										
Depth (inches):								Hydric Soil Present	? Yes ○ No ●			
	1103/1					_						
Remarks:												



Photo File: P1010942.JPG Orientation: -facing

Lat/Long or UTM : Long/Easting: -76.1683

Description:

Lat/Northing: **36.6952**



Photo File: P1010943.JPG Orientation: -facing

Lat/Long or UTM: Long/Easting: 0 Lat/Northing: 0

Description:

Project/Site: Bedford Solar Center	City/County: Chesapeake	Sampling Date: 09-May-18		
Applicant/Owner: Coronal Energy	State: VA	Sampling Point: 7		
Investigator(s): M. Molnar, K. Thomas	Section, Township, Range	: S T R		
Landform (hillslope, terrace, etc.): Flat	Local relief (concave, conve	ex, none): none Slope: 0.0 % / 0.0 °		
Subregion (LRR or MLRA): MLRA 153B in LRR T Lat.:		ong.: -76.1683		
	30.0332			
Soil Map Unit Name: 42 - Tomotley-Bertie complex	Yes No	NWI classification: Upland		
Are climatic/hydrologic conditions on the site typical for this time of ye		(If no, explain in Remarks.)		
	tly disturbed? Are "Nori	mal Circumstances" present? Yes No		
Are Vegetation, Soil, or Hydrology naturally p	oroblematic? (If neede	ed, explain any answers in Remarks.)		
SUMMARY OF FINDINGS - Attach site map showing sa	mpling point locations	, transects, important features, etc.		
Hydrophytic Vegetation Present? Yes ○ No ●	To the Sampled Are			
Hydric Soil Present? Yes ○ No ●	Is the Sampled Are	Yes ○ No ●		
Wetland Hydrology Present? Yes O No •	within a Wetland?	tes UNO U		
Remarks:				
HYDROLOGY				
Wetland Hydrology Indicators:		Secondary Indicators (minimum of 2 required)		
Primary Indicators (minimum of one required; check all that apply)		Surface Soil Cracks (B6)		
Surface Water (A1) Aquatic Fauna (B	13)	Sparsely Vegetated Concave Surface (B8)		
High Water Table (A2) Marl Deposits (B1		Drainage Patterns (B10)		
Saturation (A3) Hydrogen Sulfide	• •	Moss Trim Lines (B16)		
	neres along Living Roots (C3)	☐ Dry Season Water Table (C2)		
Sediment Deposits (B2) Presence of Redu	` '	Crayfish Burrows (C8)		
	action in Tilled Soils (C6)	Saturation Visible on Aerial Imagery (C9)		
☐ Algal Mat or Crust (B4) ☐ Thin Muck Surfac		Geomorphic Position (D2)		
☐ Iron Deposits (B5) ☐ Other (Explain in Inundation Visible on Aerial Imagery (B7)	Remarks)	Shallow Aquitard (D3)		
Water-Stained Leaves (B9)		FAC-Neutral Test (D5)		
` '		☐ Sphagnum moss (D8) (LRR T, U)		
Field Observations: Surface Water Present? Yes No Depth (inches):				
- op an (a.).	Wetland I	Hydrology Present? Yes O No 💿		
Saturation Present? (includes capillary fringe) Yes No Depth (inches):		-		
Describe Recorded Data (stream gauge, monitoring well, aerial phot	os) premous inspections), in c			

Species? Rel.Strat. Indicator Absolute Dominance Test worksheet: Tree Stratum (Plot size: _____) % Cover Status Cover **Number of Dominant Species** 1. _____ 0 0.0% That are OBL, FACW, or FAC: 0 (A) 0 0.0% **Total Number of Dominant** Species Across All Strata: (B) 0.0% Percent of dominant Species 0.0% 0.0% (A/B) That Are OBL, FACW, or FAC: 0.0% 0.0% **Prevalence Index worksheet:** _____0 8. _____ 0.0% Total % Cover of: Multiply by: 50% of Total Cover: ___0 ___ 20% of Total Cover: ___0 ___ **0** ___ **= Total Cover** OBL species $0 \times 1 = 0$ FACW species 0 x 2 = Sapling or Sapling/Shrub Stratum (Plot size: _____) $0 \times 3 =$ 1. _______ 0 FAC species 0 x 4 = 0 0.0% FACU species 3. __________ 0 0.0% <u>0</u> x 5 = -UPL species 0 0.0% Column Totals: 0 (A) 0 (B) 0.0% Prevalence Index = B/A = 0.000 6. _______ 0.0% **Hydrophytic Vegetation Indicators:** 0.0% 8. _____ 0 1 - Rapid Test for Hydrophytic Vegetation 50% of Total Cover: 0 20% of Total Cover: 0 0 = Total Cover 2 - Dominance Test is > 50% Shrub Stratum (Plot size: _____) \Box 3 - Prevalence Index is ≤3.0 1 Problematic Hydrophytic Vegetation ¹ (Explain) 0.0% 1 Indicators of hydric soil and wetland hydrology must 0.0% be present, unless disturbed or problematic. 0.0% **Definition of Vegetation Strata:** 6. ___ ______0 Tree - Woody plants, excluding woody vines, 0.0% approximately 20 ft (6 m) or more in height and 3 in. 50% of Total Cover: 0 20% of Total Cover: 0 0 = Total Cover (7.6 cm) or larger in diameter at breast height (DBH). Herb Stratum (Plot size: _____) Sapling - Woody plants, excluding woody vines, 0 approximately 20 ft (6 m) or more in height and less 2. 0 0.0% than 3 in. (7.6 cm) DBH. Sapling/Shrub - Woody plants, excluding vines, less 0 0.0% than 3 in. DBH and greater than 3.28 ft (1m) tall. 5._________ 0.0% 0.0% Shrub - Woody plants, excluding woody vines, 0 0.0% approximately 3 to 20 ft (1 to 6 m) in height. _____0 0.0% Herb - All herbaceous (non-woody) plants, including 0.0% herbaceous vines, regardless of size, and woody 0 0.0% plants, except woody vines, less than approximately 3 0 ft (1 m) in height. 0.0% 0 12.____ 0.0% Woody vine - All woody vines, regardless of height. 0 _ _ 50% of Total Cover: 0 20% of Total Cover: 0 = Total Cover Woody Vine Stratum (Plot size: _____) 2. _____ 0.0% 0 0.0% 0.0% Hydrophytic 0 0.0% 5. -Vegetation Yes ○ No • 50% of Total Cover: ___0 ___ 20% of Total Cover: ___0 0 = Total Cover Present? Remarks: (If observed, list morphological adaptations below). Managed agricultural field *Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Sampling Point: 7

Profile Descr	iption: (De	scribe to	the depth	needed to	documen	t the indi	cator or c	onfirm the	absence of indicators.)			
Depth <u>Matrix</u>					Re	dox Featu						
(inches)			%_	Color (moist)%Tvpe_1Loc²					Texture	Remarks		
0-4	10YR	4/2	100						Sandy Loam			
4-10	10YR	5/2	100						Sandy Loam			
10-18	2.5Y	4/2	95	10YR	5/6	5	С	M	Sandy Clay Loam			
			-		-	-	_	-				
			-		-		-					
-			-									
¹ Type: C=Cond	centration. D	=Depletio	n. RM=Red	duced Matrix,	CS=Cover	ed or Coat	ed Sand G	rains ² Loc	 cation: PL=Pore Lining. M=			
Hydric Soil I	indicators:								Indicators for Probl	ematic Hydric Soils ³ :		
Histosol (A	A1)			☐ Pol	yvalue Belo	ow Surface	(S8) (LRR	S, T, U)		•		
Histic Epip	pedon (A2)				-				1 cm Muck (A9) (LRR O)			
☐ Black Hist	ic (A3)				☐ Thin Dark Surface (S9) (LRR S, T, U) ☐ Loamy Mucky Mineral (F1) (LRR O)				2 cm Muck (A10) (LRR S)			
Hydrogen	Sulfide (A4)					d Matrix (F		,	Reduced Vertic (F18) (outside MLRA 150A,B)			
_	Layers (A5)				oleted Mat	-	-,		☐ Piedmont Floodplain Soils (F19) (LRR P, S, T) ☐ Anomalous Bright Loamy Soils (F20) (MLRA 153B)			
	odies (A6) (L	RR P. T. I	I)			urface (F6	`					
	ky Mineral (A		•			k Surface (10	•		Red Parent Material (TF2)			
	,	, ,	, ., 0,						☐ Very Shallow Darl			
	☐ Muck Presence (A8) (LRR U) ☐ 1 cm Muck (A9) (LRR P, T)					Redox Depressions (F8) Marl (F10) (LRR U) Other (Explain in Remarks)						
Depleted	Below Dark S	Surface (A	11)			ric (F11) (I	MI RA 151)					
	k Surface (A:	-	,									
	☐ Thick Dark Surface (A12) ☐ Iron-Manganese Masses (F12) (LRR ☐ Coast Prairie Redox (A16) (MLRA 150A) ☐ Umbric Surface (F13) (LRR P, T, U)											
	ıck Mineral (S		-)				
	-		,, 5)			(F17) (MLR	-	1 FOD)	³ Indicators	of hydrophytic vegetation and		
Sandy Gleyed Matrix (S4)					Reduced Vertic (F18) (MLRA 150A, 150B)				wetland hydrology must be present,			
	Sandy Redox (S5) Stripped Matrix (S6)				☐ Piedmont Floodplain Soils (F19) (MLRA 149A) ☐ Anomalous Bright Loamy Soils (F20) (MLRA 14							
	` '	D D C T		∐ And	omalous Br	right Loam	y Soils (F2	0) (MLRA 14	19A, 153C, 153D)			
	ace (S7) (LRI	K P, S, I,	U)									
Restrictive La	aver (if ohe	erved):										
		-										
Type: Depth (inches):				_			Hydric Soil Present?	Yes ○ No ●				
. `	nes):					_				100		
Remarks:												
ĺ												
I												



Photo File: P1010950.JPG

Orientation:

-facing

Lat/Long or UTM: Long/Easting: -76.1683

Lat/Northing: 36.6952

Description:



Photo File: P1010951.JPG

Orientation:

-facing

Lat/Long or UTM: Long/Easting: 0

Lat/Northing: 0

Description:

Latitorining.

Project/Site: Bedford Solar Center	City/County:	Chesapeake	Sampling Date: 10-M	ay-18				
Applicant/Owner: Coronal Energy		State: VA	Sampling Point: 8					
Investigator(s): M. Molnar, K. Thomas	Section, Tow	nship, Range: S	T R					
Landform (hillslope, terrace, etc.): Flat	_	ncave, convex, r		_ 				
	36.6952		j.: -76.1683 Datum: NA					
	30.0532			1003				
Soil Map Unit Name: 45 - Tomotley-Nimmo complex	- Voc	● No ○	NWI classification: Upland					
Are climatic/hydrologic conditions on the site typical for this time of ye	our.		(If no, explain in Remarks.)	\cap				
Are Vegetation . , Soil . , or Hydrology . significant	tly disturbed?	Are "Normal	Circumstances" present? Yes No	O				
Are Vegetation , Soil , or Hydrology naturally p	problematic?	(If needed,	explain any answers in Remarks.)					
SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.								
Hydrophytic Vegetation Present? Yes No •	Is the	Sampled Area						
Hydric Soil Present? Yes ○ No ●		•	Yes O No •					
Wetland Hydrology Present? Yes ○ No ●	within	a Wetland?	res U NO S					
Remarks: HYDROLOGY								
			C. It Tallian (original parts of 2 married)	1				
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply)			Secondary Indicators (minimum of 2 required) Surface Soil Cracks (B6)					
Surface Water (A1) Aquatic Fauna (B			Sparsely Vegetated Concave Surface (B8)					
High Water Table (A2) Marl Deposits (B1)	-		☐ Sparsely vegetated Concave Surface (B8) ☐ Drainage Patterns (B10)					
Saturation (A3) Hydrogen Sulfide			Moss Trim Lines (B16)					
1 —	. ,	neres along Living Roots (C3) Dry Season Water Table (C2)						
Sediment Deposits (B2) Presence of Redu								
	uction in Tilled Soil	s (C6)	Saturation Visible on Aerial Imagery (C9)					
☐ Algal Mat or Crust (B4) ☐ Thin Muck Surfac			Geomorphic Position (D2)					
☐ Iron Deposits (B5) ☐ Other (Explain in	Remarks)		Shallow Aquitard (D3)					
Inundation Visible on Aerial Imagery (B7)			FAC-Neutral Test (D5)					
Water-Stained Leaves (B9)			Sphagnum moss (D8) (LRR T, U)					
Field Observations:								
Surface Water Present? Yes No Depth (inches):								
Water Table Present? Yes O No O Depth (inches):								
Saturation Present? (includes capillary fringe) Yes No Depth (inches):		Wetland Hyd	rology Present? Yes O No 💿					
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial phot		nactions) if ava	ilahlo					
Describe Recorded Data (stream gauge, monitoring well, aerial prior	lOS, previous iris	pecuons), n ava	iidbie:					
Remarks:								

Sampling Point: 8 Species? Absolute Indicator Dominance Test worksheet: Rel.Strat. Tree Stratum (Plot size: _____) % Cover Status Cover **Number of Dominant Species** 1 Fagus grandifolia 40 FACU 66.7% That are OBL, FACW, or FAC: 3 (A) 2. Acer rubrum _____10 16.7% FAC **Total Number of Dominant** 3. Quercus phellos ___10 FACW Species Across All Strata: 6 (B) 4. _ _____0 0.0% Percent of dominant Species 0.0% 50.0% (A/B) That Are OBL, FACW, or FAC: _____0 0.0% 6. 7. -0.0% **Prevalence Index worksheet:** _____0 8. _____ 0.0% Total % Cover of: Multiply by: OBL species 50% of Total Cover: ____30 ____ 20% of Total Cover: ___12 ____ 60 __ **= Total Cover** $0 \times 1 = 0$ Sapling or Sapling/Shrub Stratum (Plot size: _____) FACW species __10 x 2 = Carpinus caroliniana <u>35</u> x 3 = 5 50.0% FAC species 65 x 4 = 2. Aralia spinosa **~** 5 50.0% FACU species 0 0.0% $\frac{0}{x}$ x 5 = 3. — UPL species 0 0.0% (B) Column Totals: 110 (A) 385 0.0% Prevalence Index = B/A = 3.500 6. ______ 0.0% **Hydrophytic Vegetation Indicators:** __0__ 0.0% 7. . 0 8. _ ■ 1 - Rapid Test for Hydrophytic Vegetation 50% of Total Cover: ___ 5 ___ 20% of Total Cover: ___ 2 ___ 10 __ = Total Cover 2 - Dominance Test is > 50% Shrub Stratum (Plot size: _____) \Box 3 - Prevalence Index is ≤3.0 ¹ ☐ Problematic Hydrophytic Vegetation ¹ (Explain) _____0 0 0.0% 1 Indicators of hydric soil and wetland hydrology must 0.0% be present, unless disturbed or problematic. 0.0% **Definition of Vegetation Strata:** 6. ____ Tree - Woody plants, excluding woody vines, _____0 0.0% approximately 20 ft (6 m) or more in height and 3 in. 50% of Total Cover: 0 20% of Total Cover: 0 0 = Total Cover (7.6 cm) or larger in diameter at breast height (DBH). Herb Stratum (Plot size: ____ Sapling - Woody plants, excluding woody vines, _____10 1 Elymus virginicus ✓ 100.0% FAC approximately 20 ft (6 m) or more in height and less ____0 0.0% than 3 in. (7.6 cm) DBH. 0.0% Sapling/Shrub - Woody plants, excluding vines, less 0 0.0% than 3 in. DBH and greater than 3.28 ft (1m) tall. 5._________ 0.0% 0.0% Shrub - Woody plants, excluding woody vines, 0 approximately 3 to 20 ft (1 to 6 m) in height. 0.0% _____0 0.0% Herb - All herbaceous (non-woody) plants, including 0.0% herbaceous vines, regardless of size, and woody 0 0.0% 10... plants, except woody vines, less than approximately 3 0 ft (1 m) in height. 0.0% 11.__ 0 _ 12.__ 0.0% Woody vine - All woody vines, regardless of height. 2 _ _ 20% of Total Cover: 50% of Total Cover: 5 10 = Total Cover Woody Vine Stratum (Plot size:) 1 Toxicodendron radicans _____5 2 Lonicera japonica **✓** 10 33.3% FACU 3. Parthenocissus quinquefolia 50.0% FACU 15 0 0.0% 4. Hydrophytic 0 0.0% 5. Vegetation Yes ○ No • 50% of Total Cover: 15 20% of Total Cover: 6 30 = **Total Cover** Present? Remarks: (If observed, list morphological adaptations below). *Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)										
Depth		Matrix		Re	dox Featu	res				
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Tvpe 1	Loc ²	Texture	Remarks	
0-3	10YR	2/2	100					Fine Sandy Loam		
3-8	10YR	4/2	100					Fine Sandy Loam		
8-18	2.5Y	5/2	100					Fine Sandy Loam		
	-				-		-			
	-						-	-	·	
		-					-	-		
¹ Type: C=Con	centration. D	=Depletio	n. RM=Red	uced Matrix, CS=Cover	ed or Coat	ed Sand Gr	ains ² Loc	cation: PL=Pore Lining. M=	Matrix	
Hydric Soil 1	indicators:							Indicators for Probl	ematic Hydric Soils ³ :	
Histosol (A1)			Polyvalue Beld	ow Surface	(S8) (LRR	S, T, U)	1 cm Muck (A9) (•	
Histic Epip	pedon (A2)			Thin Dark Sur				2 cm Muck (A10)		
☐ Black Hist	tic (A3)			Loamy Mucky			•		18) (outside MLRA 150A,B)	
☐ Hydrogen	Sulfide (A4)			Loamy Gleyed					ain Soils (F19) (LRR P, S, T)	
Stratified	Layers (A5)			Depleted Mati		,			Loamy Soils (F20) (MLRA 153B)	
Organic B	Bodies (A6) (L	RR P, T,	U)	Redox Dark S	` ')		Red Parent Mater		
5 cm Muc	ky Mineral (A	47) (LRR F	P, T, U)	Depleted Dark	•				• ,	
	sence (A8) (L			Redox Depres		,		☐ Very Shallow Dark Surface (TF12) ☐ Other (Explain in Remarks)		
	k (A9) (LRR			☐ Marl (F10) (LF				☐ Other (Explain in	Remarks)	
Depleted	Below Dark S	Surface (A	11)	Depleted Och		MLRA 151)				
☐ Thick Dar	k Surface (A:	12)		☐ Iron-Mangane	. , .	,	O. P. T)	³ Indicators of hydrophytic vegetation and		
Coast Pra	irie Redox (A	16) (MLR.	A 150A)	Umbric Surfac			. 0, . , . ,			
	ıck Mineral (9		-	Delta Ochric (
	eyed Matrix (, ,	Reduced Verti		-	150B)			
Sandy Re		,		☐ Piedmont Floo			-	wetland hydrology must be present, A) unless disturbed or problematic.		
	Matrix (S6)				•			149A, 153C, 153D)		
	ace (S7) (LRI	R P, S, T,	U)	Anomalous bi	ignic Loann	y 30113 (1 20) (INLIVA I	13A, 133C, 133D)		
Restrictive L	ayer (if obs	erved):								
Type:										
Depth (inches):							Hydric Soil Present?	Yes O No 💿		
Remarks:										



Photo File: P1010958.JPG O

Orientation:

-facing

Lat/Long or UTM: Long/Easting: -76.1683

Lat/Northing: 36.6952

Description:



Photo File: P1010960.JPG Orientation:

-facing

Lat/Long or UTM: Long/Easting: 0

Lat/Northing: 0

Description:

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region

Project/Site: Bedford Solar Center	City/County:	Chesapeake	Sa	mpling Date:	10-May-18
Applicant/Owner: Coronal Energy		State: VA	Sampling Poi	nt: <u>9</u>	
nvestigator(s): M. Molnar, K. Thomas	Section, Tow	nship, Range: S	т	R	
andform (hillslope, terrace, etc.): Flat	Local relief (co	ncave, convex,	none): none	Slope: 0.	<u>0.0</u> % /0.0
ubregion (LRR or MLRA): MLRA 153B in LRR T La	at.: 36.6952	Long	g.: -76.1683	Datu	m: NAD83
oil Map Unit Name: 45 - Tomotley-Nimmo complex			NWI classificat		
are climatic/hydrologic conditions on the site typical for this time	of year? Yes	● No ○	(If no, explain in Re	-	
	o. , o		Circumstances" pres	, , , , , , , , , , , , , , , , , , ,	No O
	icantly disturbed?		•	Julie:	110
Are Vegetation, Soil, or Hydrology natura	ally problematic?	(If needed,	explain any answers	in Remarks.)	
SUMMARY OF FINDINGS - Attach site map showing	sampling point	t locations, t	ransects, importa	ant features,	etc.
Hydrophytic Vegetation Present? Yes No No	Tatha	Commission Area			
Hydric Soil Present? Yes No	is the	Sampled Area	Yes No		
Wetland Hydrology Present? Yes No	within	a Wetland?	res 🙂 NO 🖰		
Remarks:					
Remarks.					
LIVEROLOGY					
HYDROLOGY					
Wetland Hydrology Indicators:			Secondary Indicators	(minimum of 2 rec	quired)
Primary Indicators (minimum of one required; check all that ap	ply)		Surface Soil Crack	(s (B6)	
Surface Water (A1) Aquatic Faun	` '		Sparsely Vegetate	ed Concave Surface	e (B8)
	rs (B15) (LRR U)		☐ Drainage Patterns	` '	
	ulfide Odor (C1)		Moss Trim Lines (. ,	
	zospheres along Living	Roots (C3)	☐ Dry Season Water		
	Reduced Iron (C4)	(66)	Crayfish Burrows	` '	
	Reduction in Tilled Soil	IS (C6)		on Aerial Imagery	(C9)
			☐ Geomorphic Positi		
Inundation Visible on Aerial Imagery (B7)	in in Remarks)		FAC-Neutral Test		
Water-Stained Leaves (B9)			Sphagnum moss (
. ,		ı	Spriagrium moss ((D6) (LRK 1, 0)	
Field Observations: Surface Water Present? Yes No Depth (inch	hes):				
	· ———				
	nes):	Wetland Hyd	Irology Present?	Yes No)
Saturation Present? Yes No Depth (includes capillary fringe)	hes):10	,			
Describe Recorded Data (stream gauge, monitoring well, aerial	photos, previous ins	pections), if ava	ilable:		
Remarks:					
remarks.					

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

Sampling Point: 9 Species? Absolute Indicator Dominance Test worksheet: Rel.Strat. Tree Stratum (Plot size: _____) % Cover Status Cover **Number of Dominant Species** 20 FACU 1 Fagus grandifolia 28.6% That are OBL, FACW, or FAC: 6 (A) 2. Carpinus caroliniana _____ _ 30 42.9% FAC **Total Number of Dominant** 3 Acer rubrum ___15 **~** FAC Species Across All Strata: 9 (B) 4. Quercus michauxii 5 7.1% **FACW** Percent of dominant Species _____0 0.0% 5. _ 66.7% (A/B) That Are OBL, FACW, or FAC: 0.0% 0.0% **Prevalence Index worksheet:** 7. -8. _____ ____0 0.0% Total % Cover of: Multiply by: OBL species 50% of Total Cover: ___35____ 20% of Total Cover: ___14_____ 70__ **= Total Cover** $0 \times 1 = 0$ Sapling or Sapling/Shrub Stratum (Plot size: _____) FACW species __10 x 2 = Carpinus caroliniana _____ ✓ 100.0% FAC <u>65</u> x 3 = 5 FAC species 30 x 4 = 0 0.0% FACU species 3. __________ 0 0.0% $-\frac{0}{x} = \frac{1}{x} = \frac{1}{x}$ UPL species 0 0.0% (B) Column Totals: 105 (A) 335 0.0% Prevalence Index = B/A = 3.190 6. ______ 0.0% **Hydrophytic Vegetation Indicators:** __0 0.0% 7. _ 8. _____ 0 ■ 1 - Rapid Test for Hydrophytic Vegetation 50% of Total Cover: 2.5 _ 20% of Total Cover: _ 1 _ 5 = Total Cover ✓ 2 - Dominance Test is > 50% Shrub Stratum (Plot size: _____) 3 - Prevalence Index is ≤3.0 1 _____0 Problematic Hydrophytic Vegetation ¹ (Explain) 0 0.0% 1 Indicators of hydric soil and wetland hydrology must 0.0% be present, unless disturbed or problematic. 0.0% **Definition of Vegetation Strata:** _____0 Tree - Woody plants, excluding woody vines, 0.0% 6. _ approximately 20 ft (6 m) or more in height and 3 in. 50% of Total Cover: 0 20% of Total Cover: 0 0 = Total Cover (7.6 cm) or larger in diameter at breast height (DBH). Herb Stratum (Plot size: ____ Sapling - Woody plants, excluding woody vines, 1 Arisaema triphyllum 5 50.0% FACW approximately 20 ft (6 m) or more in height and less 2 Dendrolycopodium dendroideum 5 **V** 50.0% FACU than 3 in. (7.6 cm) DBH. Sapling/Shrub - Woody plants, excluding vines, less 0 0.0% than 3 in. DBH and greater than 3.28 ft (1m) tall. 5._________ 0.0% 0.0% Shrub - Woody plants, excluding woody vines, 0 approximately 3 to 20 ft (1 to 6 m) in height. 0.0% ____0 0.0% Herb - All herbaceous (non-woody) plants, including 0.0% herbaceous vines, regardless of size, and woody 0 0.0% 10... plants, except woody vines, less than approximately 3 0 ft (1 m) in height. 0.0% 11.__ 0 _ 12.__ 0.0% Woody vine - All woody vines, regardless of height. 2 _ _ 5 20% of Total Cover: 50% of Total Cover: 10 = Total Cover Woody Vine Stratum (Plot size: _____) 1 Smilax rotundifolia _____ 10 Parthenocissus quinquefolia 5 25.0% FACU 2 3. Vitis rotundifolia ____ 5 25.0% __0 0.0% 4. -Hydrophytic 0 0.0% 5. Vegetation Yes ● No ○ 50% of Total Cover: 10 20% of Total Cover: 4 20 = **Total Cover** Present? Remarks: (If observed, list morphological adaptations below). *Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

SOIL Sampling Point: 9

0-3 10	YR 5 ion. D=Deptors: (A2)	/2 100 /2 60	Poly	6/2 5/8 CS=Cover	35 5	TVDE 1 D C	M M	Texture Fine Sandy Loam Fine Sandy Loam Fine PL=Pore Lining, M=	Remarks	
Type: C=Concentrat ydric Soil Indicat Histosol (A1) Histic Epipedon Black Histic (A3) Hydrogen Sulfide	YR 5 ion. D=Deptors: (A2)	60	10YR	5/8	5	С	<u>M</u>	Fine Sandy Loam	Matrix	
ype: C=Concentrat ydric Soil Indica Histosol (A1) Histic Epipedon Black Histic (A3) Hydrogen Sulfid	ion. D=Dep tors: (A2)		10YR	5/8	5	С	<u>M</u>		Matrix	
ydric Soil Indicate Histosol (A1) Histic Epipedon Black Histic (A3) Hydrogen Sulfide	tors: (A2)	oletion. RM=Re	duced Matrix, o	CS=Cover				cation: PL=Pore Lining. M=	Matrix	
/dric Soil Indicate Histosol (A1) Histic Epipedon Black Histic (A3) Hydrogen Sulfide	tors: (A2)	oletion. RM=Re	Poly		ed or Coate	ed Sand G	rains ² Loc	cation: PL=Pore Lining. M=	Matrix	
rdric Soil Indicate Histosol (A1) Histic Epipedon Black Histic (A3) Hydrogen Sulfide	tors: (A2)	oletion. RM=Re	Poly		ed or Coate	ed Sand G	rains ² Loc	cation: PL=Pore Lining, M=	Matrix	
rdric Soil Indicate Histosol (A1) Histic Epipedon Black Histic (A3) Hydrogen Sulfide	tors: (A2)	oletion. RM=Re	Poly		ed or Coate	ed Sand G	rains ² Loc	cation: PL=Pore Lining, M=	Matrix	
/dric Soil Indicate Histosol (A1) Histic Epipedon Black Histic (A3) Hydrogen Sulfide	tors: (A2)	oletion. RM=Re	Poly		ed or Coate	ed Sand G	rains ² Loc	ation: PL=Pore Lining, M=	Matrix	
rdric Soil Indicate Histosol (A1) Histic Epipedon Black Histic (A3) Hydrogen Sulfide	tors: (A2)	oletion. RM=Re	Poly		ed or Coate	ed Sand G	rains ² Loc	 :ation: PL=Pore Lining, M=	Matrix	
/dric Soil Indicate Histosol (A1) Histic Epipedon Black Histic (A3) Hydrogen Sulfide	tors: (A2)	oletion. RM=Re	Poly		ed or Coate	ed Sand G	rains ² Loc	:ation: PL=Pore Lining, M=	Matrix	
/dric Soil Indicate Histosol (A1) Histic Epipedon Black Histic (A3) Hydrogen Sulfide	tors: (A2)	oletion. RM=Re	Poly		ed or Coate	ed Sand G	rains ² Loc	cation: PL=Pore Lining, M=	Matrix	
Histosol (A1) Histic Epipedon Black Histic (A3) Hydrogen Sulfide	(A2)								Manx	
Histic Epipedon Black Histic (A3) Hydrogen Sulfid								Indicators for Probl	ematic Hydric Soils ³ :	
Black Histic (A3) Hydrogen Sulfide					ow Surface			1 cm Muck (A9) (_RR O)	
Hydrogen Sulfid			☐ Thir	Dark Sur	face (S9) (LRR S, T,	U)	2 cm Muck (A10)	(LRR S)	
1	e (A4)				Mineral (F)	Reduced Vertic (F	18) (outside MLRA 150A,B)	
Stratified Layers					l Matrix (F2	2)		Piedmont Floodpla	ain Soils (F19) (LRR P, S, T)	
	` '		✓ Dep	leted Mat	rix (F3)			Anomalous Bright	Loamy Soils (F20) (MLRA 153B)	
Organic Bodies (· · ·	_		urface (F6)			Red Parent Mater	al (TF2)	
5 cm Mucky Min			= '		k Surface (I	F7)		Very Shallow Dark Surface (TF12)		
Muck Presence ()	L Red	ox Depres	ssions (F8)			Other (Explain in	Remarks)	
1 cm Muck (A9)				l (F10) (LI						
Depleted Below		ce (A11)	☐ Dep	leted Och	ric (F11) (N	4LRA 151)				
Thick Dark Surfa	. ,			_	ese Masses					
Coast Prairie Red		-			ce (F13) (LI)			
Sandy Muck Min		RR O, S)			F17) (MLR	-		3Indicators	of hydrophytic vegetation and	
Sandy Gleyed M				Reduced Vertic (F18) (MLRA 150A, 150B) wetl					d hydrology must be present,	
Sandy Redox (S	•						1LRA 149A)		disturbed or problematic.	
Stripped Matrix	. ,		Ano	malous Br	ight Loamy	/ Soils (F2	0) (MLRA 14	19A, 153C, 153D)		
Dark Surface (S	7) (LRR P, S	S, T, U)								
							•			
strictive Layer (if observe	d):								
Туре:					_					
Depth (inches):_					_			Hydric Soil Present?	Yes No	
marks:										





Photo File: P1010965.JPG Orientation: -facing

Lat/Long or UTM: Long/Easting: -76.1683 Lat/Northing: 36.6952 Description:





Lat/Long or UTM: Long/Easting: 0 Lat/Northing: 0

Description:

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region

Project/Site: Bedford Solar Center	City/County:	Chesapeake	Sampling Date:	10-May-18
Applicant/Owner: Coronal Energy		State: VA	Sampling Point: 10	
Investigator(s): M. Molnar, K. Thomas	Section, Towr	ship, Range: S	T R	
Landform (hillslope, terrace, etc.): Flat	Local relief (co	ncave, convex, i	none): none Slope: 0.0	0.0°
	36.6952			n: NAD83
	30.0932			10.000
Soil Map Unit Name: 1 - Acredale silt loam	- Vac	● No ○	NWI classification: Upland	
Are climatic/hydrologic conditions on the site typical for this time of yo	cui.		(If no, explain in Remarks.) Circumstances" present? Yes	No O
Are Vegetation . , Soil . , or Hydrology . significant	tly disturbed?	Are "Norma	I Circumstances" present?	NO U
Are Vegetation , Soil , or Hydrology naturally	problematic?	(If needed,	explain any answers in Remarks.)	
SUMMARY OF FINDINGS - Attach site map showing sa	ampling point	locations, t	ransects, important features,	etc.
Hydrophytic Vegetation Present? Yes ○ No •	To the o	2lad A		
Hydric Soil Present? Yes ○ No ●	Is the	Sampled Area	Yes ○ No •	
Wetland Hydrology Present? Yes ○ No •	within	a Wetland?	res Uno S	
Remarks:				
HYDROLOGY				1
Wetland Hydrology Indicators:			Secondary Indicators (minimum of 2 requ	uired)
Primary Indicators (minimum of one required; check all that apply)			Surface Soil Cracks (B6)	
Surface Water (A1) ☐ Aquatic Fauna (B ☐ High Water Table (A2) ☐ Marl Deposits (B:			Sparsely Vegetated Concave Surface	(B8)
Saturation (A3) Hydrogen Sulfide			Drainage Patterns (B10)	
1 —	heres along Living	Poots (C3)	✓ Moss Trim Lines (B16)✓ Dry Season Water Table (C2)	
Sediment Deposits (B2) Presence of Redu		Roots (C3)	Crayfish Burrows (C8)	
	uction in Tilled Soils	(C6)	Saturation Visible on Aerial Imagery ((C9)
Algal Mat or Crust (B4) Thin Muck Surface		(00)	Geomorphic Position (D2)	(63)
☐ Iron Deposits (B5) ☐ Other (Explain in	` ,		Shallow Aquitard (D3)	
Inundation Visible on Aerial Imagery (B7)	· · · · · · · · · · · · · · · · · · ·		FAC-Neutral Test (D5)	
☐ Water-Stained Leaves (B9)			Sphagnum moss (D8) (LRR T, U)	
Field Observations:				
Surface Water Present? Yes O No O Depth (inches):	:			
Water Table Present? Yes O No O Depth (inches):	:			
Saturation Present? (includes capillary fringe) Yes No Depth (inches):		Wetland Hyd	Irology Present? Yes 🔾 No 💿	
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photographics)		octions) if ava	ilabla	
	itos, previous irisț	ections), ii ava	iliable.	
Remarks:				ļ

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

Sampling Point: 10 Species? Rel.Strat. Indicator Absolute Dominance Test worksheet: Tree Stratum (Plot size: _____) % Cover Status Cover **Number of Dominant Species** 1. _____ 0 0.0% That are OBL, FACW, or FAC: 0 (A) 0 0.0% **Total Number of Dominant** Species Across All Strata: (B) 0.0% Percent of dominant Species 0.0% 0.0% (A/B) That Are OBL, FACW, or FAC: 0.0% 0.0% **Prevalence Index worksheet:** 8. _____ _____0 0.0% Total % Cover of: Multiply by: 50% of Total Cover: ___0 ___ 20% of Total Cover: ___0 ___ **0** ___ **= Total Cover** OBL species $0 \times 1 = 0$ FACW species 0 x 2 = Sapling or Sapling/Shrub Stratum (Plot size: _____) $0 \times 3 =$ 1. _______ 0 FAC species 0 x 4 = 0 0.0% FACU species 3. __________ 0 0.0% <u>0</u> x 5 = -UPL species 0 0.0% Column Totals: 0 (A) 0 (B) 0.0% Prevalence Index = B/A = 0.000 6. _______ 0.0% **Hydrophytic Vegetation Indicators:** 0.0% 8. _____ 0 1 - Rapid Test for Hydrophytic Vegetation 50% of Total Cover: 0 20% of Total Cover: 0 0 = Total Cover 2 - Dominance Test is > 50% Shrub Stratum (Plot size: _____) \Box 3 - Prevalence Index is ≤3.0 1 Problematic Hydrophytic Vegetation ¹ (Explain) _____0 ____0 0.0% 1 Indicators of hydric soil and wetland hydrology must 0.0% be present, unless disturbed or problematic. 0.0% **Definition of Vegetation Strata:** 6. ___ _____0 Tree - Woody plants, excluding woody vines, 0.0% approximately 20 ft (6 m) or more in height and 3 in. 50% of Total Cover: 0 20% of Total Cover: 0 0 = Total Cover (7.6 cm) or larger in diameter at breast height (DBH). Herb Stratum (Plot size: _____) Sapling - Woody plants, excluding woody vines, 0 approximately 20 ft (6 m) or more in height and less 0.0% than 3 in. (7.6 cm) DBH. Sapling/Shrub - Woody plants, excluding vines, less 0 0.0% than 3 in. DBH and greater than 3.28 ft (1m) tall. 5._________ 0.0% 0.0% Shrub - Woody plants, excluding woody vines, 0 0.0% approximately 3 to 20 ft (1 to 6 m) in height. _____0 0.0% Herb - All herbaceous (non-woody) plants, including 0.0% herbaceous vines, regardless of size, and woody 0 0.0% plants, except woody vines, less than approximately 3 0 ft (1 m) in height. 0.0% 11.___ 0 12.____ 0.0% Woody vine - All woody vines, regardless of height. 0 _ _ 50% of Total Cover: 0 20% of Total Cover: 0 = Total Cover Woody Vine Stratum (Plot size: _____) 2. _____ 0.0% 0 0.0% 0.0% Hydrophytic 0 0.0% 5. -Vegetation Yes ○ No • 50% of Total Cover: ___0 ___ 20% of Total Cover: ___0 0 = Total Cover Present? Remarks: (If observed, list morphological adaptations below). Managed agricultural field *Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

SOIL Sampling Point: 10

Profile Descr	iption: (De	scribe to	the depth	needed to	documen	t the indi	cator or c	onfirm the	e absence of indicators.)				
Depth	Depth Matrix					dox Featu	ıres		_				
(inches)	Color (moist)	%	Color (moist)	<u>%</u>	Tvpe 1	Loc2	Texture	Remarks			
0-6	10YR	4/2	100						Fine Sandy Loam				
6-10	2.5Y	5/1	97	2.5Y	5/6	3	С	М	Fine Sandy Loam				
10-18	2.5Y	6/6	70	2.5Y	5/1	30		M	Fine Sandy Loam				
				-	-				-				
¹ Type: C=Cond	centration. D	=Depletio	n. RM=Red	uced Matrix,	CS=Cover	ed or Coat	ed Sand G	rains ² Lo	cation: PL=Pore Lining. M=	Matrix			
Hydric Soil I	ndicators:								Indicators for Probl	ematic Hydric Soils ³ :			
Histosol (A1)			Poly	value Belo	ow Surface	e (S8) (LRR	S, T, U)	1 cm Muck (A9) (I	LRR O)			
I	oedon (A2)			Thir	n Dark Sur	face (S9)	(LRR S, T,	U)	2 cm Muck (A10)				
Black Hist				Loa	my Mucky	Mineral (F	1) (LRR O)		18) (outside MLRA 150A,B)			
	Sulfide (A4)			Loa	my Gleyed	l Matrix (F	2)		Piedmont Floodpla	ain Soils (F19) (LRR P, S, T)			
_	Layers (A5)			`	leted Mat				Anomalous Bright	Loamy Soils (F20) (MLRA 153B)			
	odies (A6) (L		•		ox Dark S	•	•		Red Parent Mater	ial (TF2)			
	ky Mineral (A		P, T, U)	_	leted Dark				☐ Very Shallow Dark Surface (TF12)				
_	sence (A8) (L				ox Depres	. ,			Other (Explain in	Remarks)			
	k (A9) (LRR	. ,	11)		I (F10) (LF	-							
	Below Dark S k Surface (A:		(11)				MLRA 151)						
	irie Redox (A	•	۸ ۱50۸)		-		(F12) (LR						
	ck Mineral (S						RR P, T, U)					
	eyed Matrix (J, J)		ta Ochric (1E0D)	³ Indicators o	of hydrophytic vegetation and			
Sandy Red		31)		☐ Reduced Vertic (F18) (MLRA 150A, 150B) ☐ Piedmont Floodplain Soils (F19) (MLRA 149A)				-	wetland hydrology must be present,				
	Matrix (S6)					-			49A, 153C, 153D)	disturbed or problematic.			
	ace (S7) (LRI	R P. S. T.	U)	And	illalous bi	ignic Loann	y 30113 (1 21	o) (IIIIOA 1-	+5A, 155C, 155D)				
	(.) (, -, ,	-,										
Restrictive La	ayer (if obs	erved):											
Type:						_			Hydric Soil Present?	Yes ○ No •			
Depth (inc	hes):					_			Tryanc Son Tresenc.	165 0 140 0			
Remarks:													



Photo File: P1010981.JPG Orientation: -facing

Lat/Long or UTM : Long/Easting: -76.1683 Lat/Northing: 36.6952

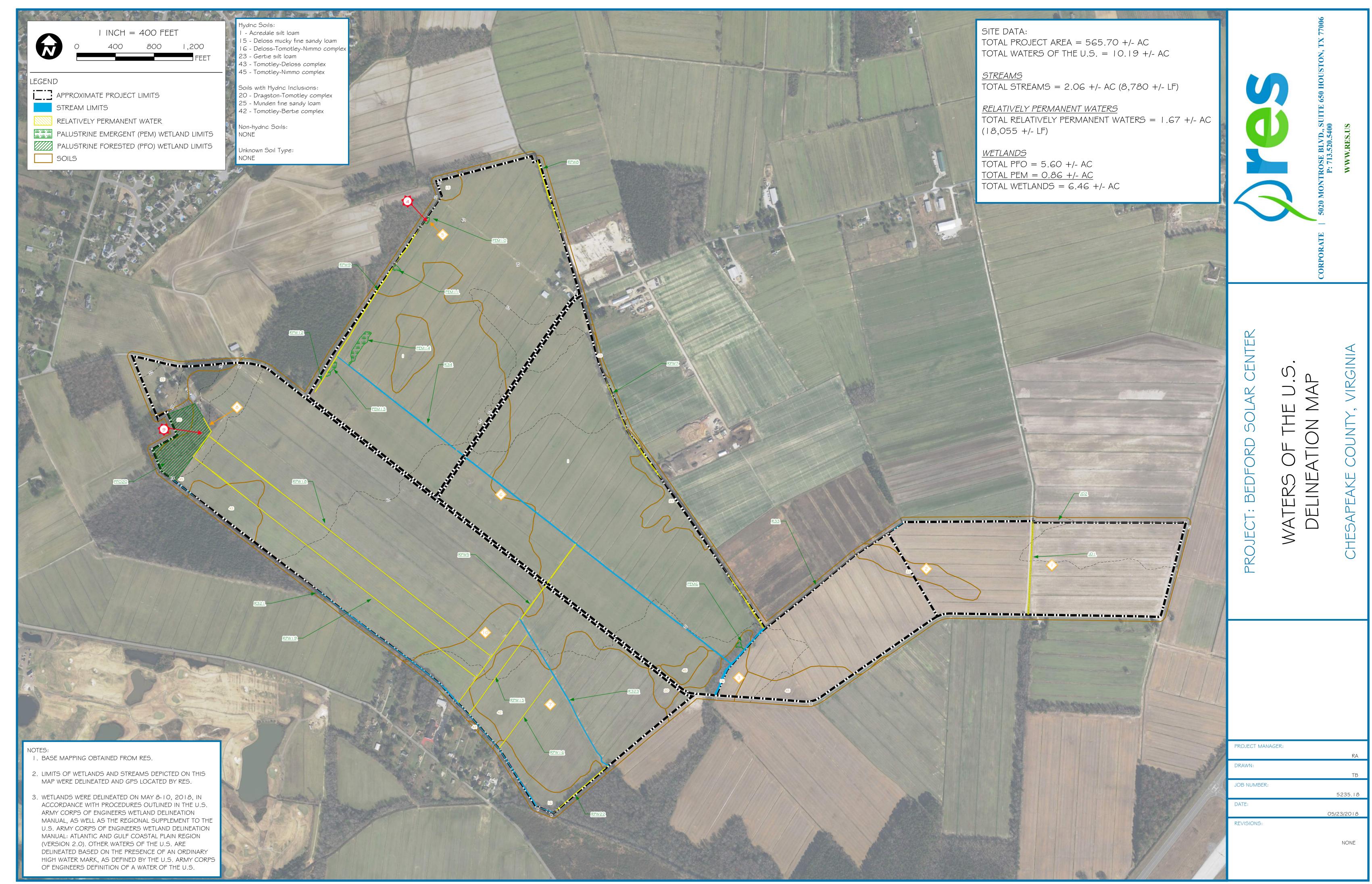
Description:



Photo File: P1010982.JPG Orientation: -facing

Lat/Long or UTM: Long/Easting: **0** Lat/Northing: **0**Description:

APPENDIX D WATERS OF THE U.S. DELINEATION MAP





Memorandum

Date: December 11, 2018

Subject: Estimated Wetland and Stream Impact

From: Lukas Klavins, Civil PE

To: Tyler Cline, PMP

This memo provides a summary of wetland and stream impact of the Bedford Solar Center based upon the attached Waters of the U.S. Delineation Map provided by RES. This exhibit displays jurisdictional streams and wetlands per preliminary feedback by the U.S. Army Corps of Engineers. Notation and classification provided below is per the RES Exhibit.

ID	TYPE	IMPACT
PEM-6	Palustrine Emergent Wetland	No Impact
PF-20	Palustrine Forested Wetlands	No Impact
R3-1	Stream	2 stormwater fence crossing approx. 10 LF
		at each crossing of stream disturbance
		20 FT wide access road crossing and
		culvert, impact to stream estimated at 40
		LF of stream disturbance
R3-3	Stream	No Impact
R3-21	Stream	No Impact
R4-22	Stream	No Impact
R4-23	Stream	1 stormwater fence crossing approx. 10 LF
		of stream disturbance
RPW-2	Relatively Permanent Water	No Impact
RPW-9	Relatively Permanent Water	No Impact
RPW-12	Relatively Permanent Water	No Impact

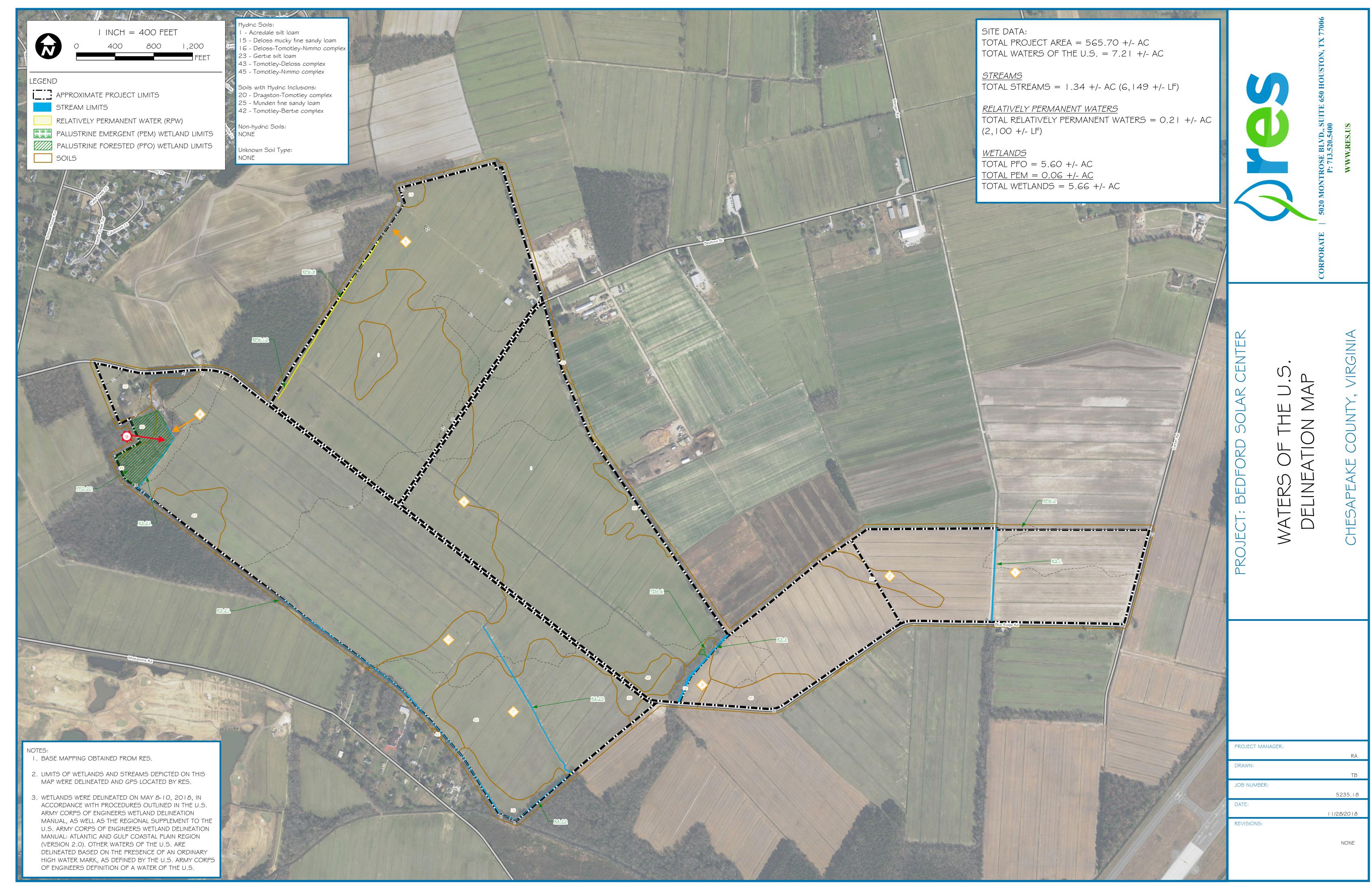
For location of these impacts see the current array plan.

Please feel free to call me at (530) 747-2026 x 244 if you have any questions or if you require any additional information.











DEPARTMENT OF THE ARMY

US ARMY CORPS OF ENGINEERS
NORFOLK DISTRICT
FORT NORFOLK
803 FRONT STREET
NORFOLK VA 23510-1011

March 14, 2019

APPROVED JURISDICTIONAL DETERMINATION

Eastern Virginia Regulatory Section NAO-2018-01177 (Pocaty River)

Bedford Solar Center, LLC ATTN: Ms. Erin Kath P.O. Box 2055 Charlottesville, VA 22902

Dear Ms. Kath:

This letter is in regard to your request for verification of an approved jurisdictional determination for the waters of the U.S. (including wetlands) on property known as "Bedford Solar". The site is located on approximately 566 acres in the vicinity of Blue Ridge Road and Bedford Street, in Chesapeake, Virginia (tax map parcel numbers: 062000000090, 062000000040, 062000000100, 062000000120).

An on-site jurisdictional determination has found waters and wetlands regulated under Section 404 of the Clean Water Act (33 U.S.C. 1344) on the property listed above. Tributaries and nontidal wetlands have been identified on the site. This letter shall serve to confirm the wetlands delineation by RES, as shown on the map titled, "Project: Bedford Solar, Waters of the U.S. Delineation Map" dated 29 January 2019 (copy attached).

Our basis for this determination is the application of the Corps' 1987 Wetland Delineation Manual (and Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Atlantic and Gulf Coastal Plain Region) and the positive indicators of wetland hydrology, hydric soils, and hydrophytic vegetation. The wetland is a water of the United States and is part of a tributary system to interstate waters (33 CFR 328.3(a)). These waters meet the Corps' definition of waters of the United States, are part of a tributary system to interstate waters (33 CFR 328.3 (a)) and have an ordinary high water mark.

Discharges of dredged or fill material, including those associated with mechanized landclearing, into jurisdictional waters and/or wetlands on this site will require a Department of the Army permit and may require authorization by state and local authorities, including a Virginia Water Protection Permit from the Virginia Department of Environmental Quality (DEQ), a permit from the Virginia Marine Resources Commission (VMRC) and/or a permit from your local wetlands board. This letter is a confirmation of the Corps jurisdiction for the waters and/or wetlands on the subject property and does

not authorize any work in these jurisdictional areas. Please obtain all required permits before starting work in the delineated waters/wetland areas.

This letter contains an approved jurisdictional determination for your subject site. If you object to this determination, you may request an administrative appeal under Corps regulations at 33 CFR Part 331. Enclosed you will find a Notification of Appeal Process (NAP) fact sheet and Request for Appeal (RFA) form. If you request to appeal this determination you must submit a completed RFA form to the North Atlantic Division Office at the following address:

ATTN: Mr. James Haggerty, Regulatory Program Manager United States Army Corps of Engineers CENAD-PD-OR Fort Hamilton Military Community 301 General Lee Avenue Brooklyn, NY 11252-6700

Email: james.w.haggerty@usace.army.mil

In order for an RFA to be accepted by the Corps, the Corps must determine that it is complete, that it meets the criteria for appeal under 33 C.F.R. part 331.5, and that it has been received by the Division Office within 60 days of the date of the NAP. Should you decide to submit an RFA form, it must be received at the above address by DATE (60 days). It is not necessary to submit an RFA form to the Division office if you do not object to the determination in this letter.

This jurisdictional determination is valid for a period of five (5) years from the date of this letter unless new information warrants revision prior to the expiration date. If you have any questions, please contact Audrey Cotnoir at 757-549-8819 or audrey.l.cotnoir@usace.army.mil.

Sincerely,

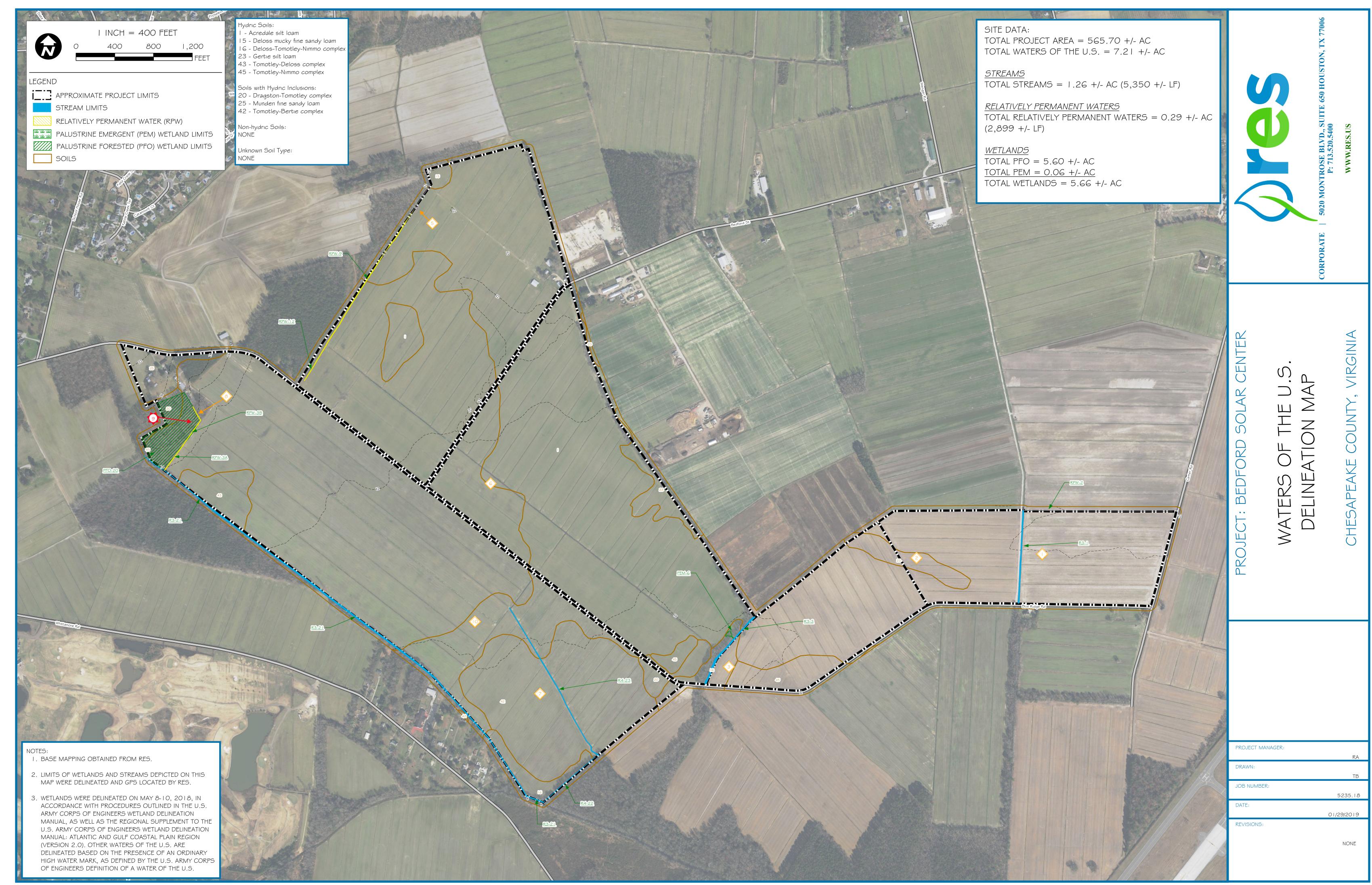
Audrey Cotnoir, PWS
Project Manager

Eastern Virginia Regulatory Section

Enclosures:

Wetland/Waters Delineation Map Appeal Form Supplemental Preapplication Form Cc:

Virginia Department of Environmental Quality, ATTN: Sheri Kattan City of Chesapeake, ATTN: Dave Mergen RES, ATTN: Katie Arquiette



NOTIFICATION OF ADMINISTRATIVE APPEAL OPTIONS AND PROCESS AND REQUEST FOR APPEAL

Applie	cant: Bedford Solar Center, LLC	File Number: NAO-2018-01177	Date: 14 March 2019
Attach	See Section below		
	INITIAL PROFFERED PERMIT (Standard Per	A	
	PROFFERED PERMIT (Standard Permit or Le	В	
	PERMIT DENIAL	С	
X	APPROVED JURISDICTIONAL DETERMIN	D	
	PRELIMINARY JURISDICTIONAL DETERM	E	

SECTION I - The following identifies your rights and options regarding an administrative appeal of the above decision. Additional information may be found at

http://www.usace.army.mil/Missions/CivilWorks/RegulatoryProgramandPermits/appeals.aspx or Corps regulations at 33 CFR Part 331.

- A: INITIAL PROFFERED PERMIT: You may accept or object to the permit.
- ACCEPT: If you received a Standard Permit, you may sign the permit document and return it to the district engineer for final
 authorization. If you received a Letter of Permission (LOP), you may accept the LOP and your work is authorized. Your
 signature on the Standard Permit or acceptance of the LOP means that you accept the permit in its entirety, and waive all rights
 to appeal the permit, including its terms and conditions, and approved jurisdictional determinations associated with the permit.
- OBJECT: If you object to the permit (Standard or LOP) because of certain terms and conditions therein, you may request that the permit be modified accordingly. You must complete Section II of this form and return the form to the district engineer. Your objections must be received by the district engineer within 60 days of the date of this notice, or you will forfeit your right to appeal the permit in the future. Upon receipt of your letter, the district engineer will evaluate your objections and may: (a) modify the permit to address all of your concerns, (b) modify the permit to address some of your objections, or (c) not modify the permit having determined that the permit should be issued as previously written. After evaluating your objections, the district engineer will send you a proffered permit for your reconsideration, as indicated in Section B below.
- B: PROFFERED PERMIT: You may accept or appeal the permit
- ACCEPT: If you received a Standard Permit, you may sign the permit document and return it to the district engineer for final
 authorization. If you received a Letter of Permission (LOP), you may accept the LOP and your work is authorized. Your
 signature on the Standard Permit or acceptance of the LOP means that you accept the permit in its entirety, and waive all rights
 to appeal the permit, including its terms and conditions, and approved jurisdictional determinations associated with the permit.
- APPEAL: If you choose to decline the proffered permit (Standard or LOP) because of certain terms and conditions therein, you may appeal the declined permit under the Corps of Engineers Administrative Appeal Process by completing Section II of this form and sending the form to the division engineer. This form must be received by the division engineer within 60 days of the date of this notice.
- C: PERMIT DENIAL: You may appeal the denial of a permit under the Corps of Engineers Administrative Appeal Process by completing Section II of this form and sending the form to the division engineer. This form must be received by the division engineer within 60 days of the date of this notice.
- D: APPROVED JURISDICTIONAL DETERMINATION: You may accept or appeal the approved JD or provide new information.
- ACCEPT: You do not need to notify the Corps to accept an approved JD. Failure to notify the Corps within 60 days of the date of this notice, means that you accept the approved JD in its entirety, and waive all rights to appeal the approved JD.
- APPEAL: If you disagree with the approved JD, you may appeal the approved JD under the Corps of Engineers Administrative Appeal Process by completing Section II of this form and sending the form to the division engineer. This form must be received by the division engineer within 60 days of the date of this notice.
- E: PRELIMINARY JURISDICTIONAL DETERMINATION: You do not need to respond to the Corps regarding the preliminary JD. The Preliminary JD is not appealable. If you wish, you may request an approved JD (which may be appealed), by contacting the Corps district for further instruction. Also you may provide new information for further consideration by the Corps to reevaluate the JD.

SECTION II - REQUEST FOR APPEAL or OBJECTION	ONS TO AN INITIAL PRO	FFERED PERMIT
REASONS FOR APPEAL OR OBJECTIONS: (Describ		
initial proffered permit in clear concise statements. You may attac		
or objections are addressed in the administrative record.)		•
ADDITIONAL INFORMATION: The appeal is limited to a review		
record of the appeal conference or meeting, and any supplemental		
clarify the administrative record. Neither the appellant nor the Con		
you may provide additional information to clarify the location of in		iministrative record.
POINT OF CONTACT FOR QUESTIONS OR INFOR		
If you have questions regarding this decision and/or the appeal	If you only have questions regard	ding the appeal process you may
process you may contact: U.S. Army Corps of Engineers, Norfolk District	also contact: Mr. James W. Haggerty	
ATTN: Audrey Cotnoir (CENAO-WR-R)	Regulatory Program Manager (CEN	(AD-PD-OR)
Great Bridge Reservation	U.S. Army Corps of Engineers	•
2509 Reservation Road	Fort Hamilton Military Community	
Chesapeake, Virginia 23322-5217 (757) 549-8819	301 General Lee Avenue Brooklyn, New York 11252-6700	
Email: Audrey.l.cotnoir@usace.army.mil	Telephone number: 347-370-4650	
RIGHT OF ENTRY: Your signature below grants the right of entr		l, and any government
consultants, to conduct investigations of the project site during the	course of the appeal process. You	
notice of any site investigation, and will have the opportunity to pa	1	
	Date:	Telephone number:
Signature of appellant or agent.		



DEPARTMENT OF THE ARMY

US ARMY CORPS OF ENGINEERS
NORFOLK DISTRICT
FORT NORFOLK
803 FRONT STREET
NORFOLK VA 23510-1011

March 14, 2019

Supplemental Preapplication Information

Project Number: NAO-2018-01177

1.	A search of the	Virginia	Department of	Historic	Resources	data	revealed	the	follo	วwinc	J
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- ☐ No known historic properties are located on the property.
- ☑ The following known architectural resources are located on the property:
 - 131-6005, House, 1104 Bedford Street
 - 131-0192, 1637 Blue Ridge Road, 1645 Blue Ridge Road (Lambert Farms)
- □ The following known archaeological resources are located on the property:
 Numerous archeological sites are shown on the property, but all were determined ineligible for the National Register of Historic Properties by VDHR.
- ☐ The following known historic resources are located in the vicinity of the property (potential for effects to these resources from future development):

DHR ID	Address	Restricted	Property Names
131- 6012	1748 Blue Ridge Road	-	House, 1748 Blue Ridge Road (Function/Location)
131- 6005	1104 Bedford Street	-	House, 1104 Bedford Street (Function/Location)
131- 5994	1403 Whittamore Road	-	House, 1403 Whittamore Road (Function/Location)
131- 5993	1405 Whittamore Road	-	House, 1405 Whittamore Road (Function/Location)
131- 6013	1407 Whittamore Road	-	House, 1407 Whittamore Road (Function/Location)
131- 5992	1409 Whittamore Rd	-	House, 1409 Whittamore Rd (Function/Location)
131- 5991	1417 Whittamore Rd	-	House, 1417 Whittamore Rd (Function/Location)
131- 5990	1419 Whittamore Rd	-	House, 1419 Whittamore Rd (Function/Location)
131- 5989	1425 Whittamore Rd	-	House, 1425 Whittamore Rd (Function/Location)
131- 5987	1437 Whittamore Rd	-	House, 1437 Whittamore Rd (Function/Location)

131- 6014	1433 Whittamore Road	-	United House of Prayer for All People Cemetery (Current Name)
131- 5988	1439 Whittamore Rd	-	House, 1439 Whittamore Rd (Function/Location)
131- 5986	1441 Whittamore Rd	-	House, 1441 Whittamore Rd (Function/Location)
131- 5985	1445 Whittamore Rd	-	House, 1445 Whittamore Rd (Function/Location)
131- 5984	1451 Whittamore Rd	-	House, 1451 Whittamore Rd (Function/Location)
131- 5983	1449 Whittamore Rd	-	House, 1449 Whittamore Rd (Function/Location)
131- 5982	1453 Whittamore Rd	-	House, 1453 Whittamore Rd (Function/Location)
131- 5981	1457 Whittamore Rd	-	House, 1457 Whittamore Rd (Function/Location)
131- 5980	1461 Whittamore Rd	-	House, 1461 Whittamore Rd (Function/Location)
131- 5979	1463 Whittamore Rd	-	House, 1463 Whittamore Rd (Function/Location)
131- 6004	1032 Bedford Road	-	House, 1032 Bedford Street (Function/Location)
131- 5978	1469 Whittamore Rd	-	House, 1469 Whittamore Rd (Function/Location)
131- 5324	Lockhead Road	Unrestricted	Fentress Auxiliary Landing Field Historic District (Historic)
131- 5071	Blue Ridge Road, Centerville Turnpike, Fentress Road, Whittamore Road	Unrestricted	Blue Ridge/Fentress Historic District (Historic), Centerville-Fentress Historic District (Historic/Current), Centre Hill (Historic)
131- 0192	1637 Blue Ridge Road, 1645 Blue Ridge Road	-	House, 1637 Blue Ridge Road (Function/Location), Lambert Farms (Current)

NOTE:

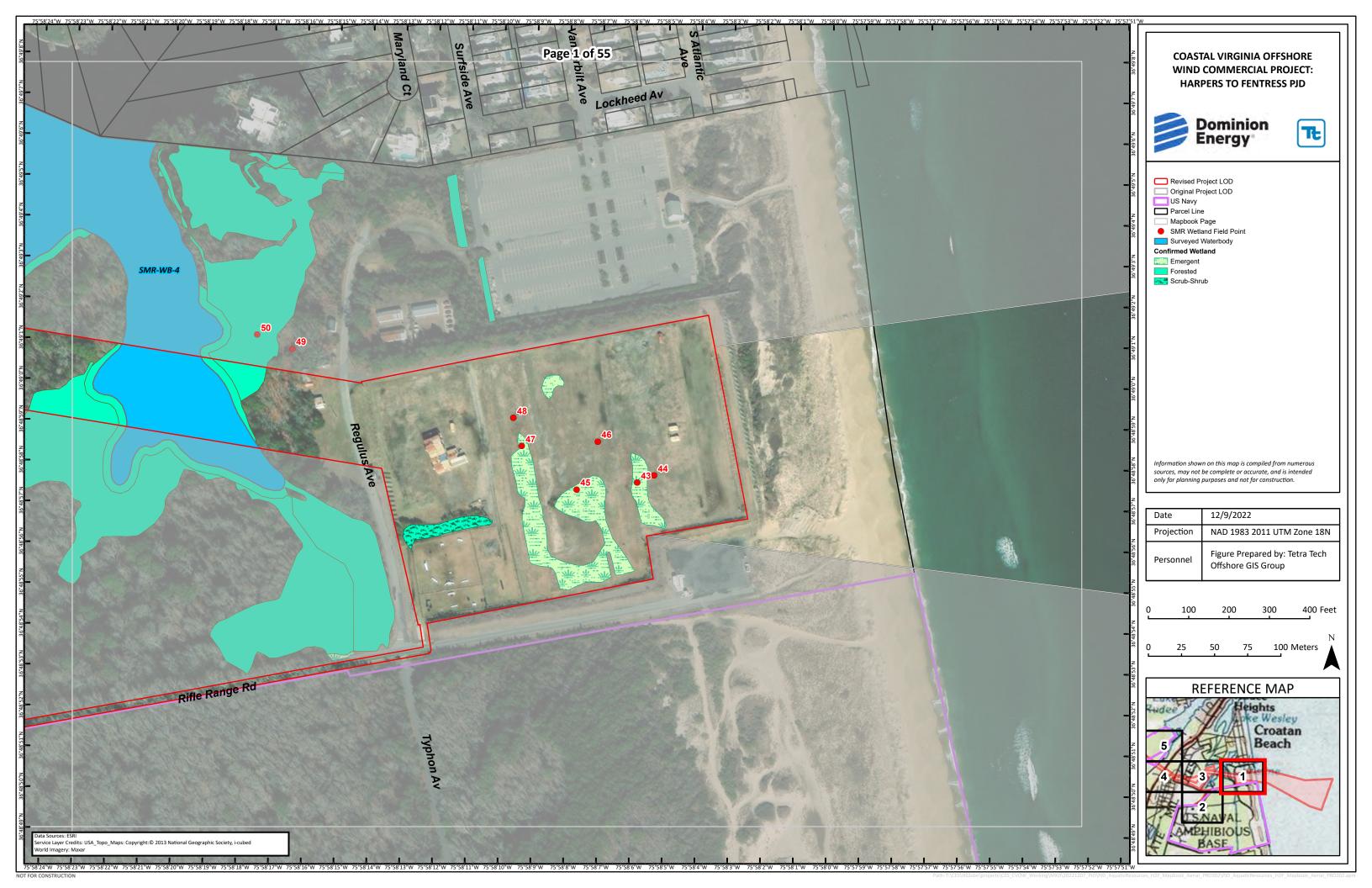
- The information above is for planning purposes only. In most cases, the property has not been surveyed for historic resources. Undiscovered historic resources may be located on the subject property or adjacent properties and this supplemental information is not intended to satisfy the Corps' requirements under Section 106 of the National Historic Preservation Act (NHPA).
- 2) Prospective permittees should be aware that Section 110k of the NHPA (16 U.S.C. 470h-2(k)) prevents the Corps from granting a permit or other assistance to an applicant who, with intent to avoid the requirements of Section 106 of the NHPA, has intentionally significantly adversely affected a historic property to which the permit would relate, or having legal power to prevent it, allowed such significant adverse effect to occur, unless the Corps, after consultation with the Advisory Council on Historic Preservation (ACHP), determines that circumstances justify granting such assistance despite the adverse effect created or permitted by the applicant.
- 2. A search of the data supplied by the U.S. Fish & Wildlife Service, the Virginia Department of Conservation and Recreation and the Virginia Department of Game and Inland Fisheries

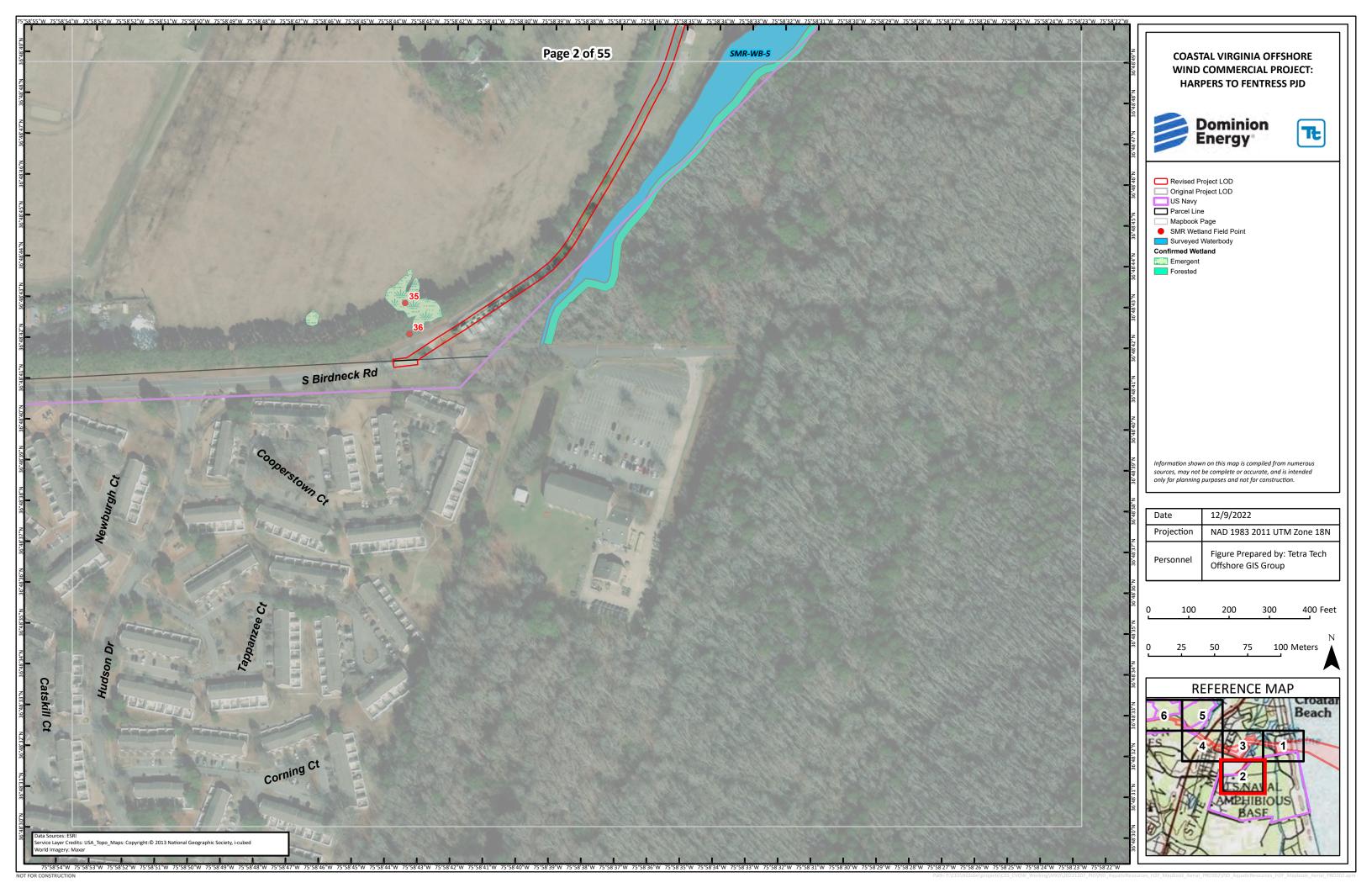
rev	vealed the following:
	No known populations of threatened or endangered species are located on or within the vicinity of the subject property.
\boxtimes	The following federally-listed species may occur within the vicinity of the subject property: Northern Long-eared Bat, <i>Myotis septentrionalis</i> , Threatened
	The following state-listed (or other) species may occur within the vicinity of the subject property:

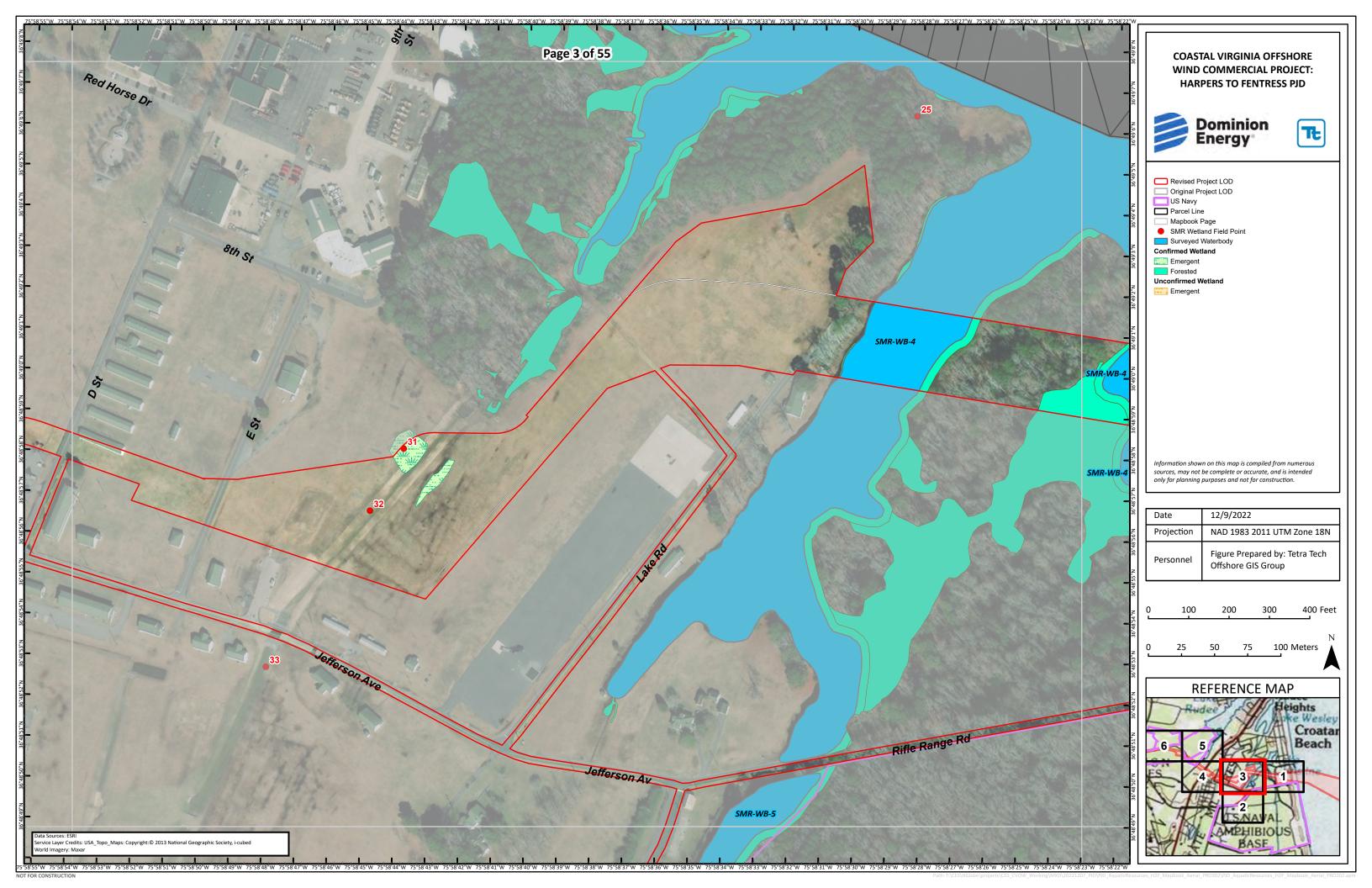
Please note this information is being provided to you based on the preliminary data you submitted to the Corps relative to project boundaries and project plans. Consequently, these findings and recommendations are subject to change if the project scope changes or new information becomes available and the accuracy of the data.

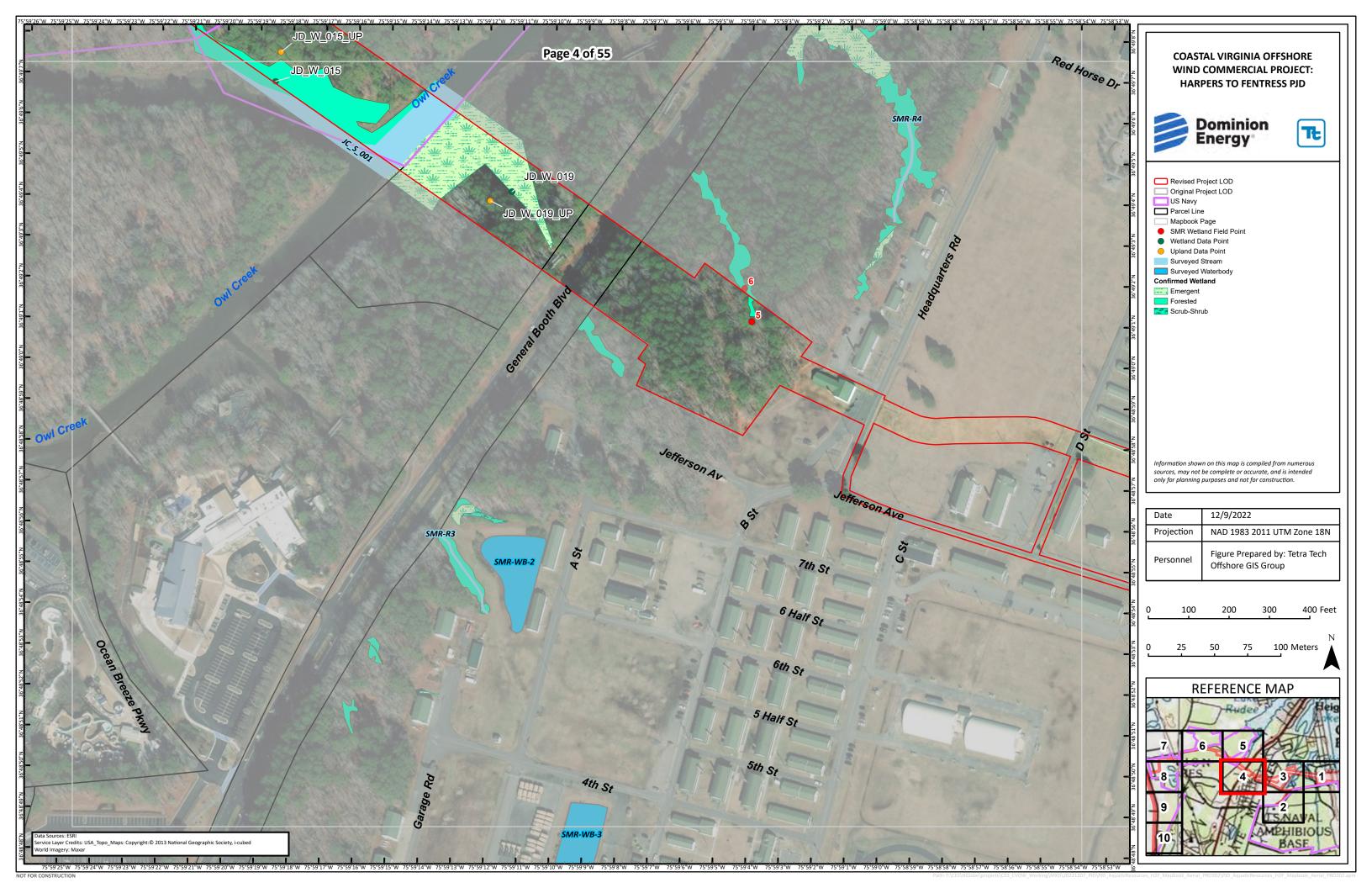
ATTACHMENT U-2: FINAL REVISED PJD MAPBOOK (DECEMBER 2022)

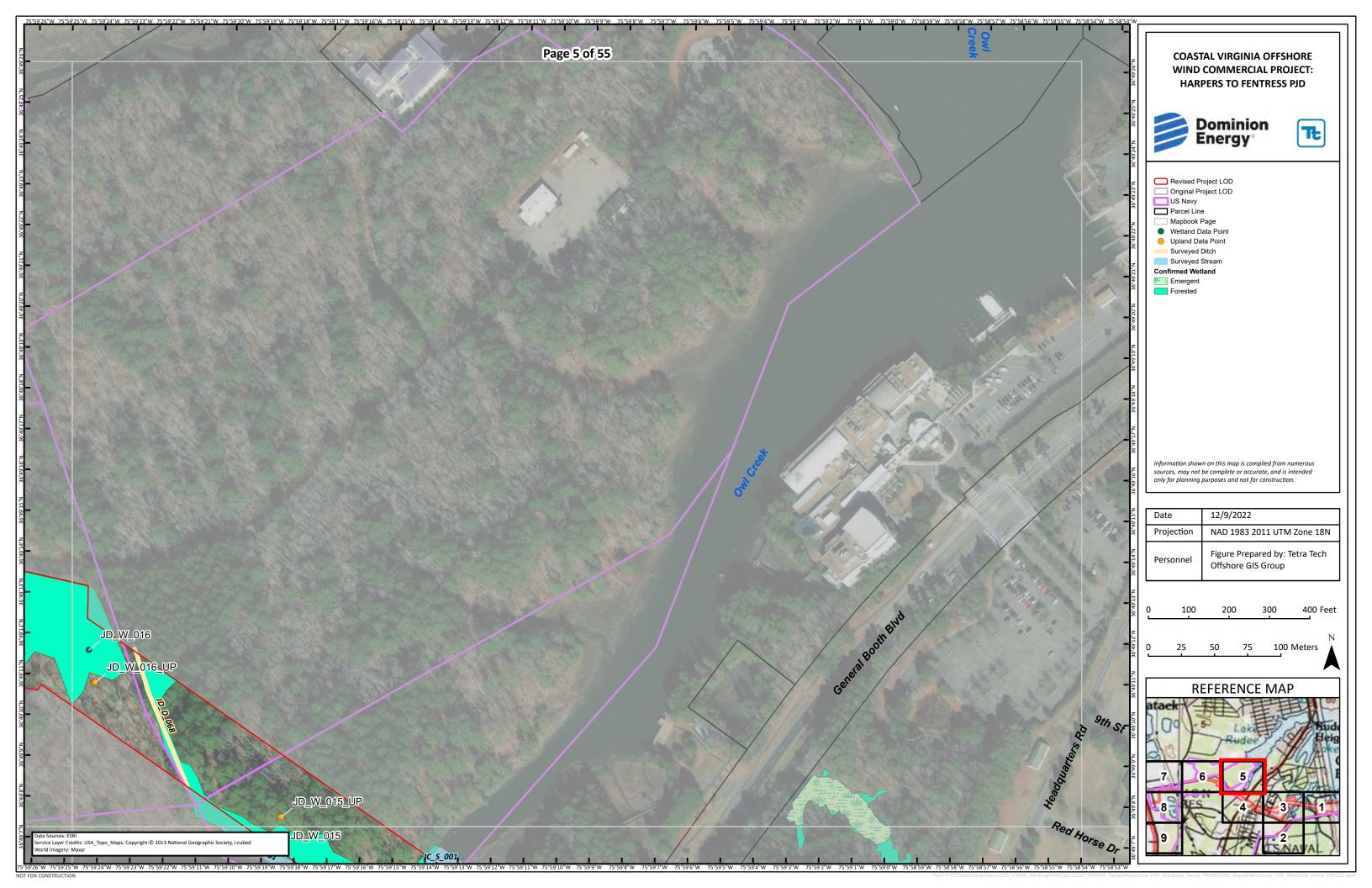
July 2023 Page U-3



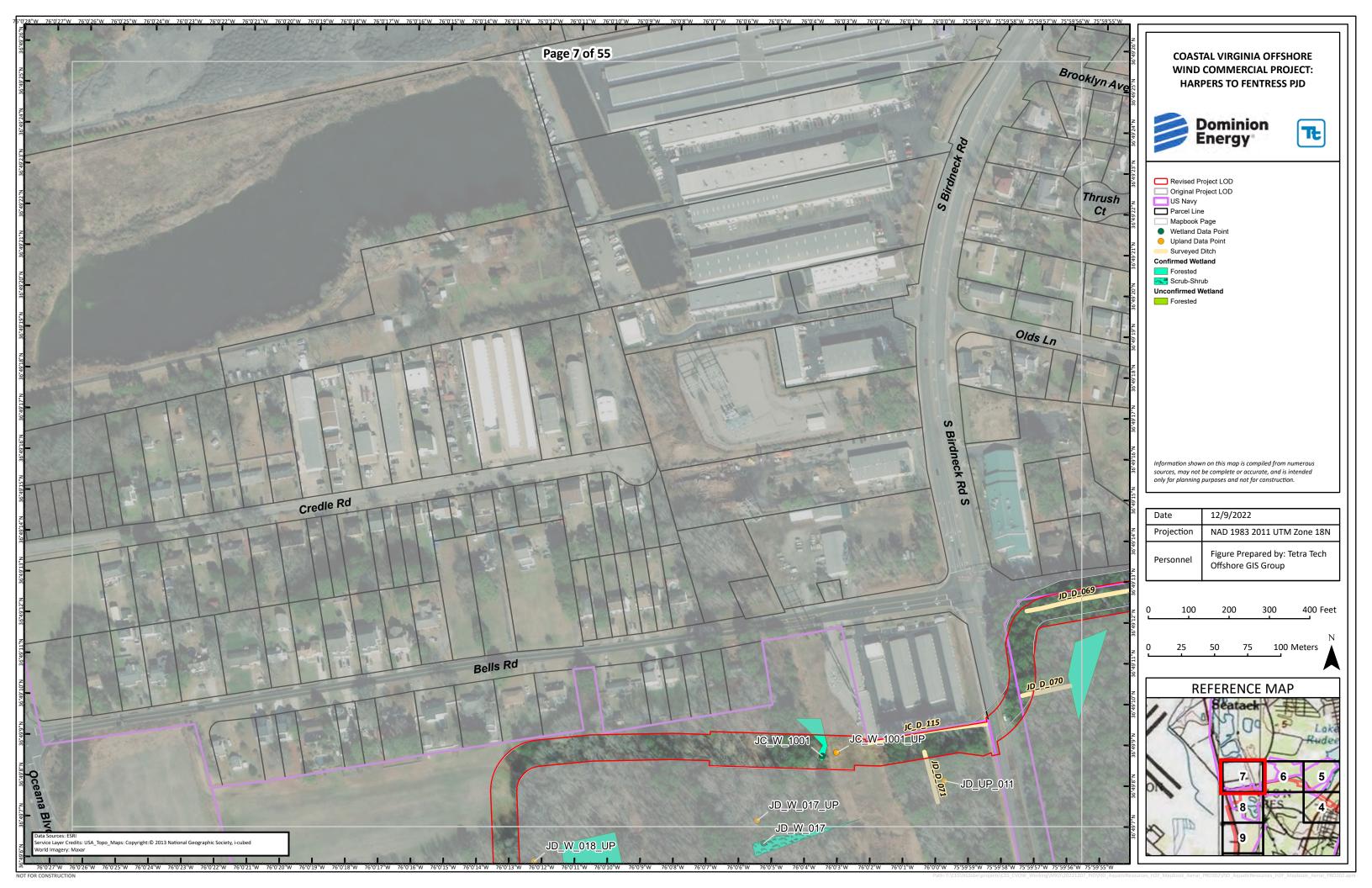








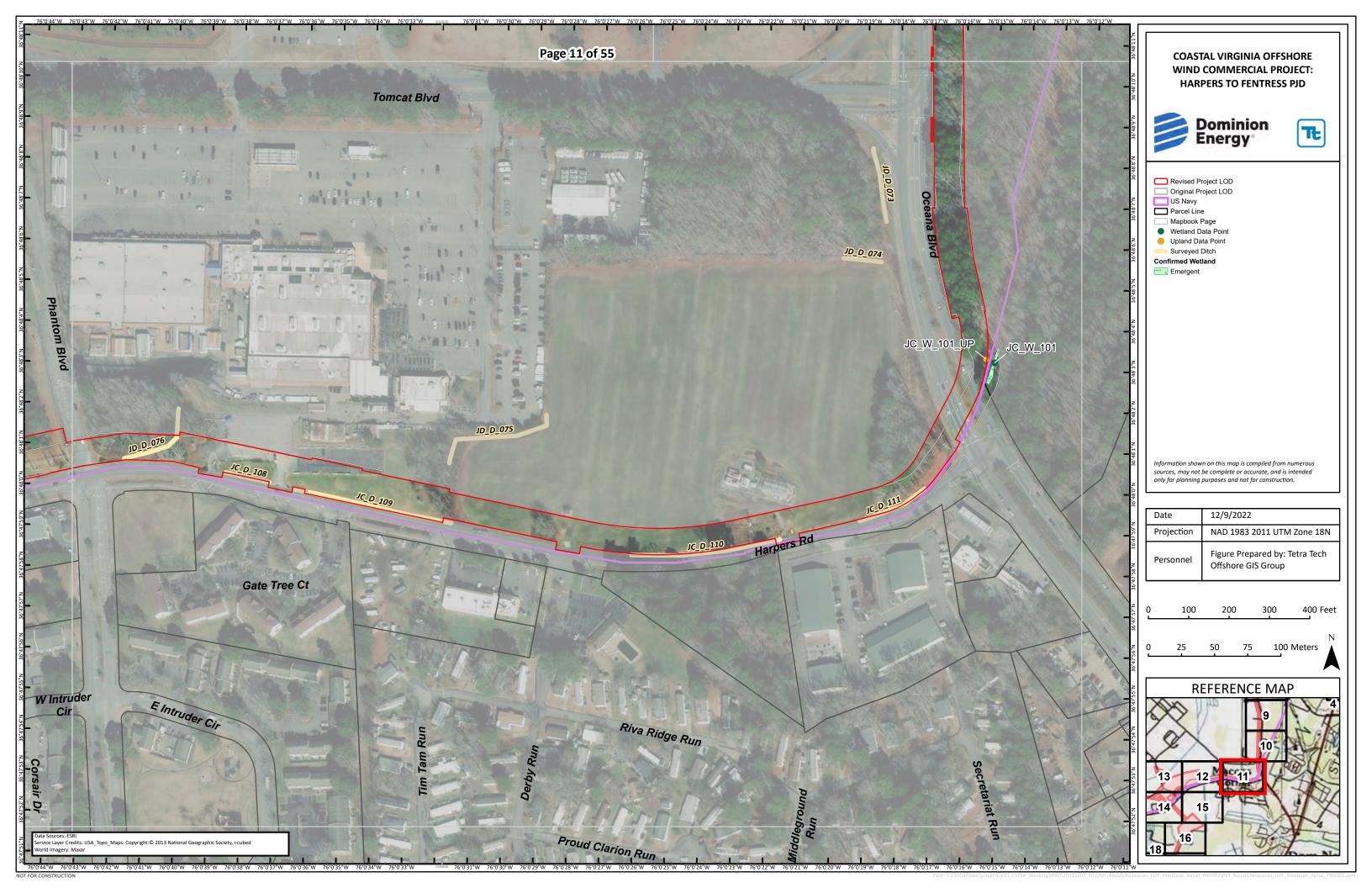


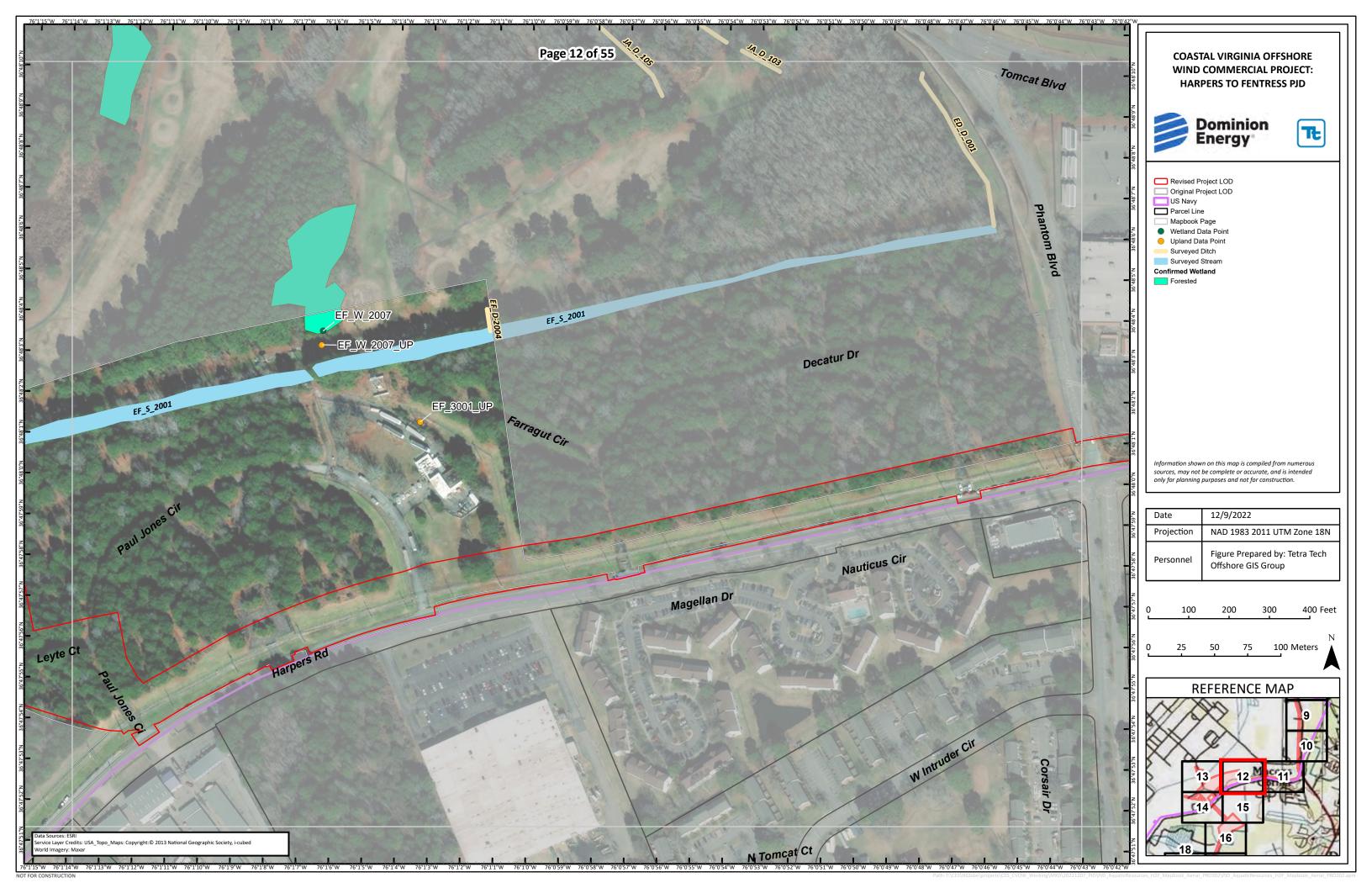


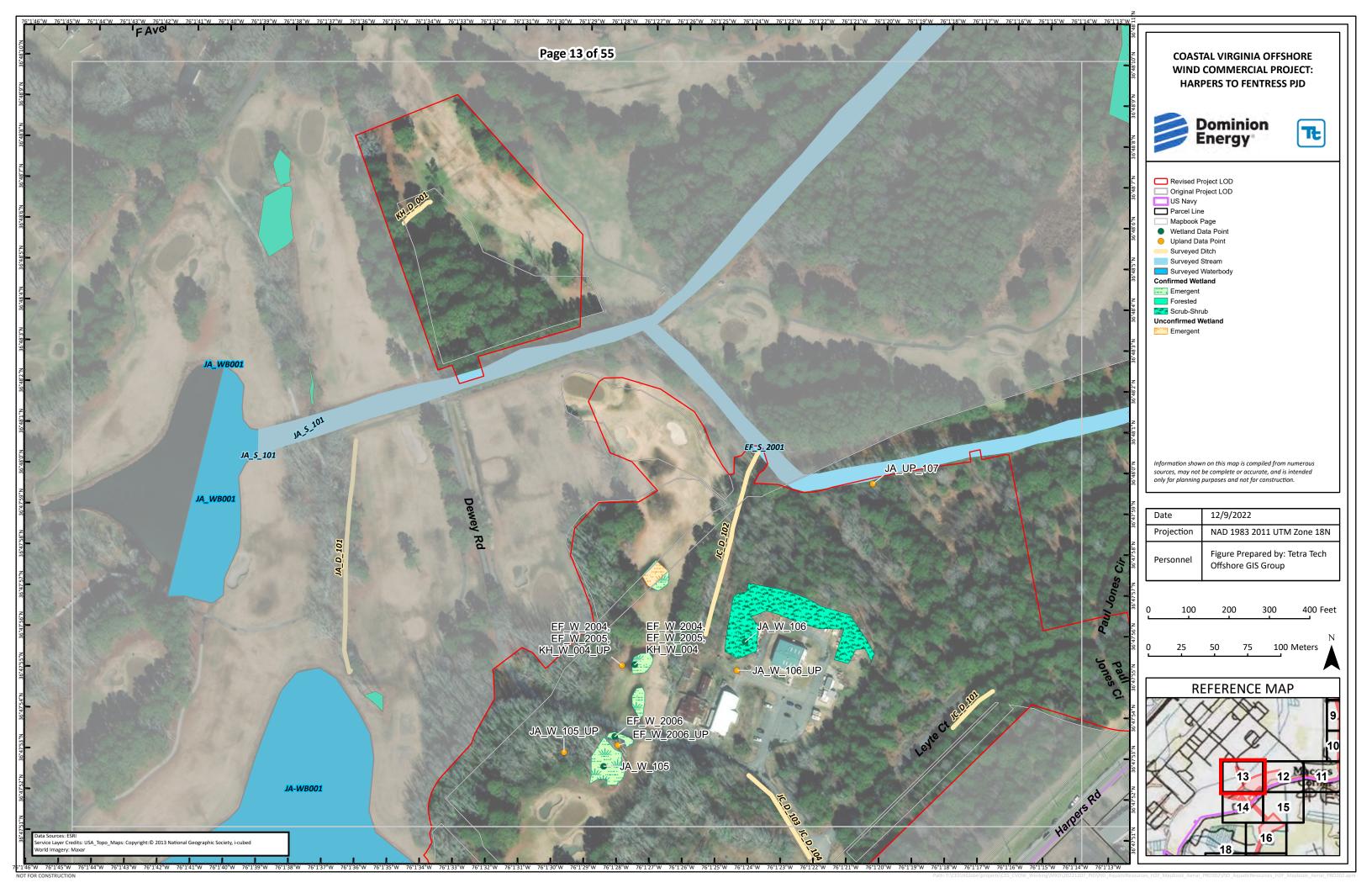






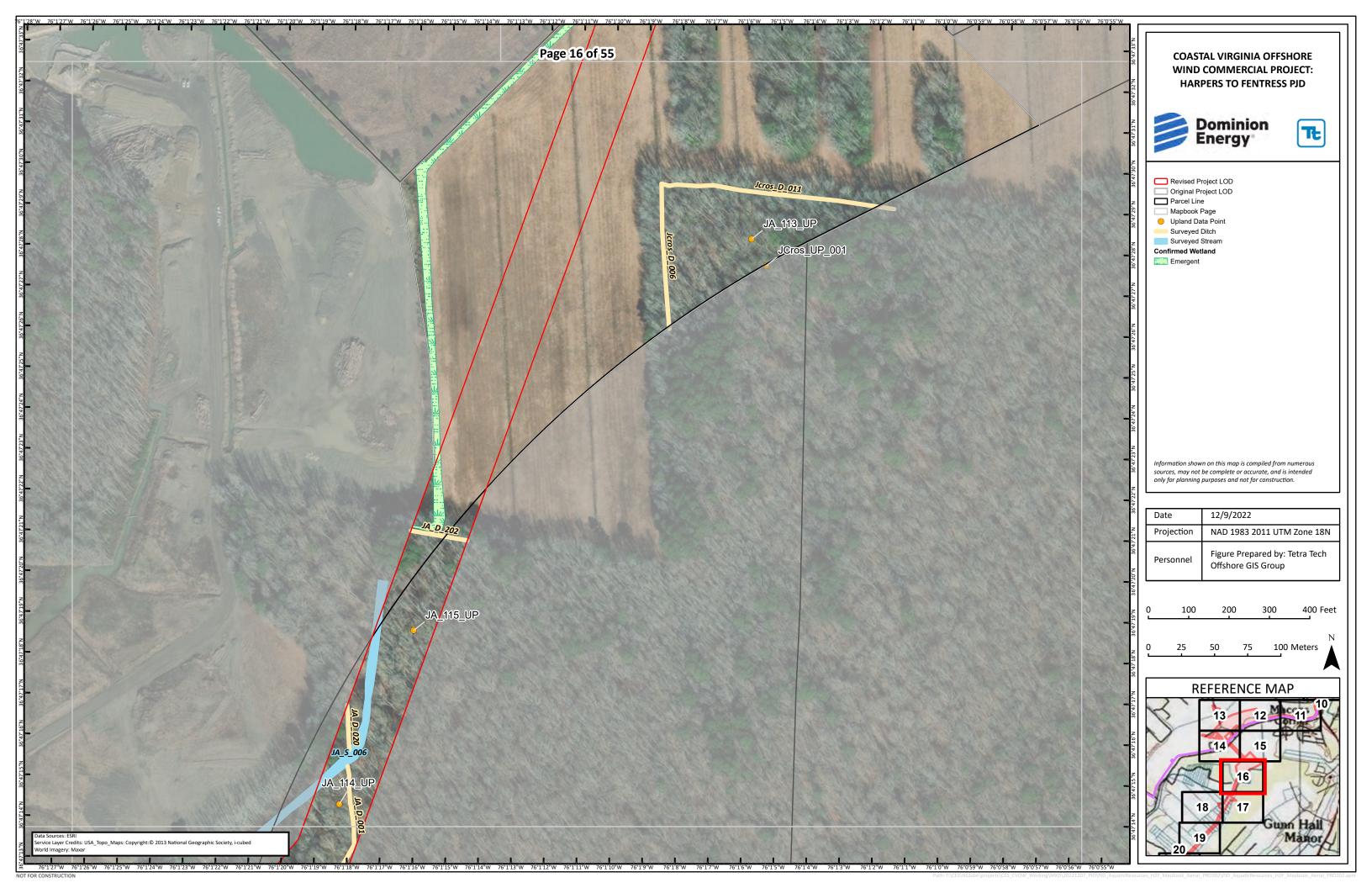


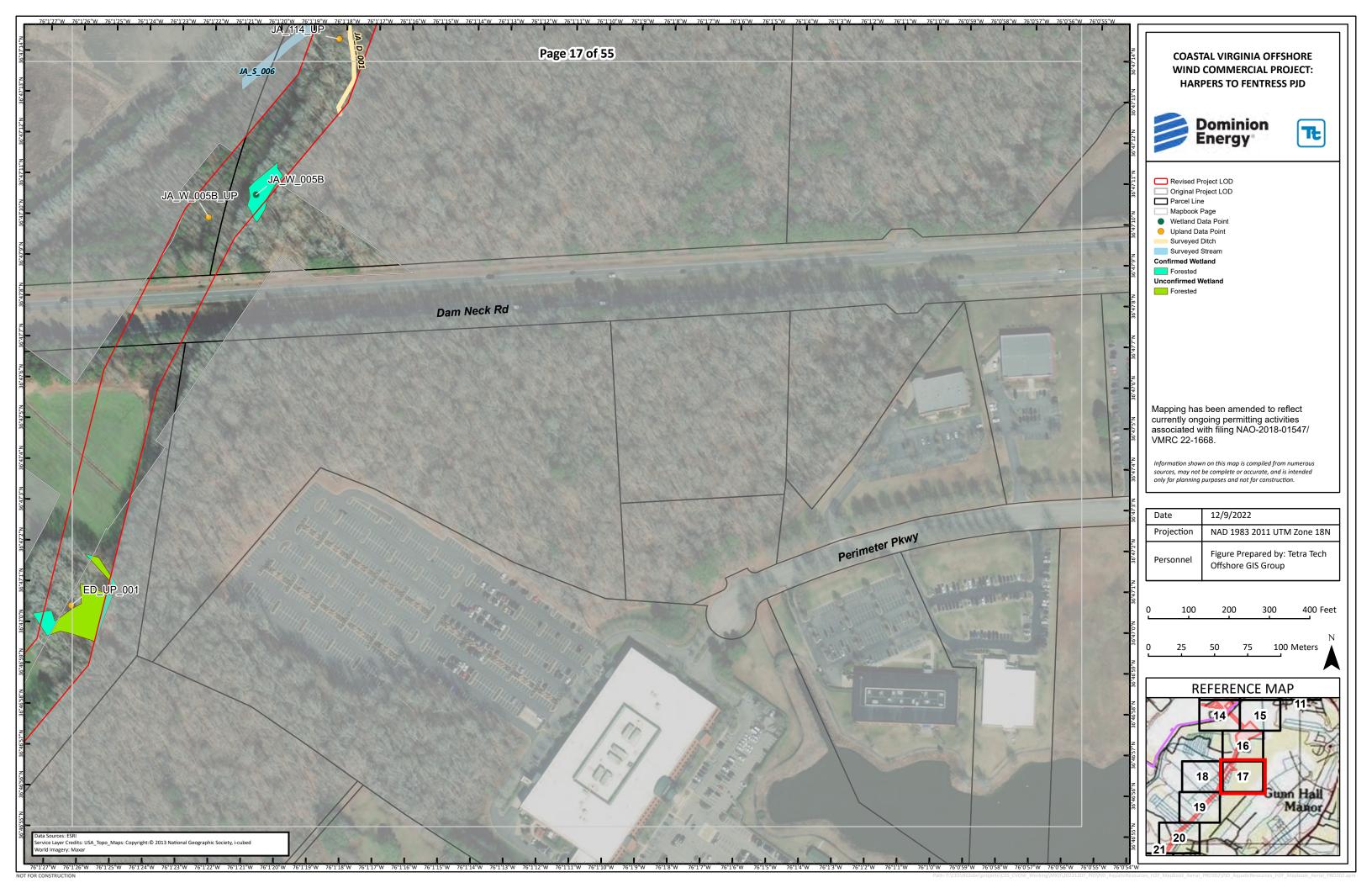




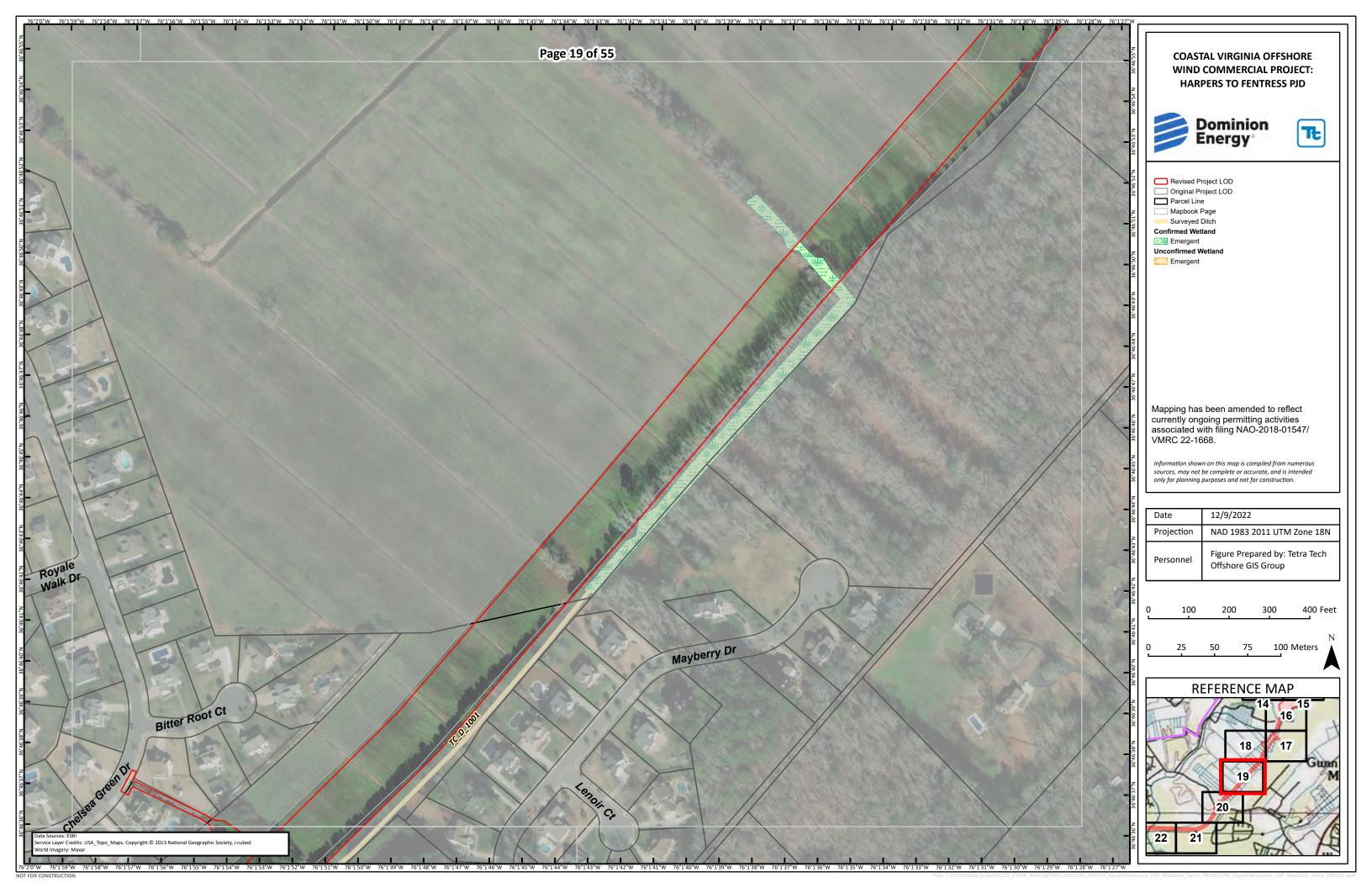


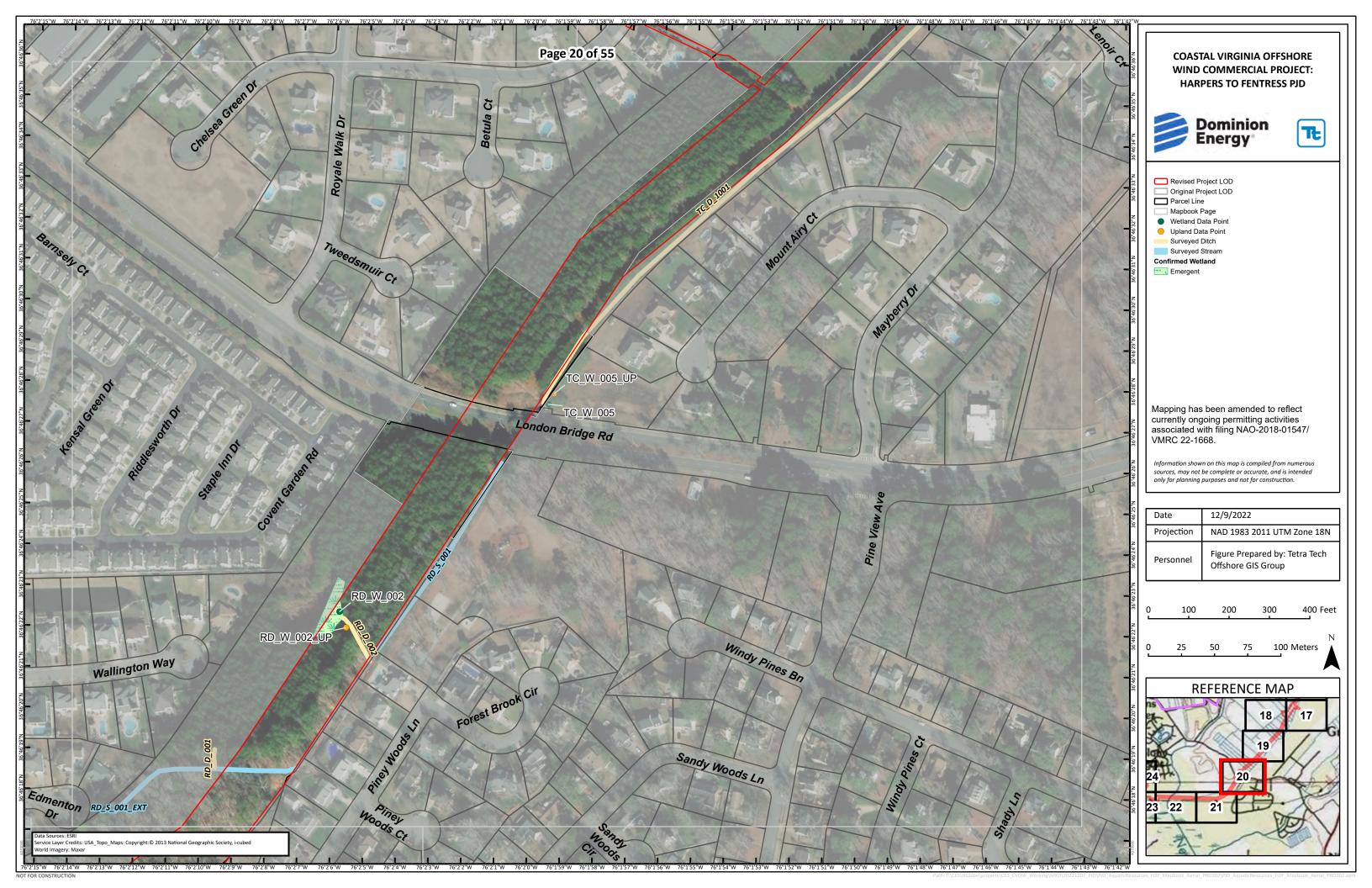




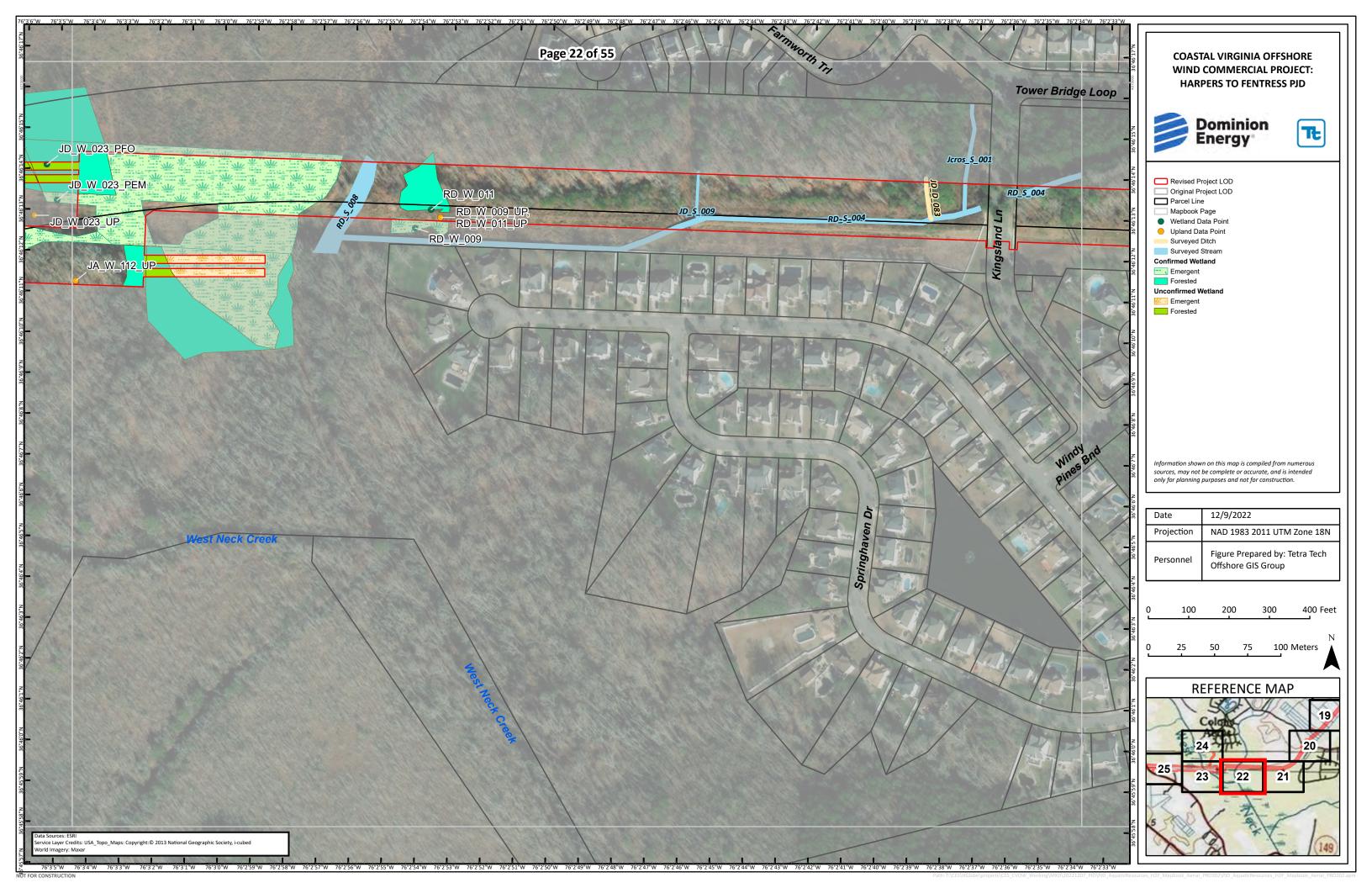


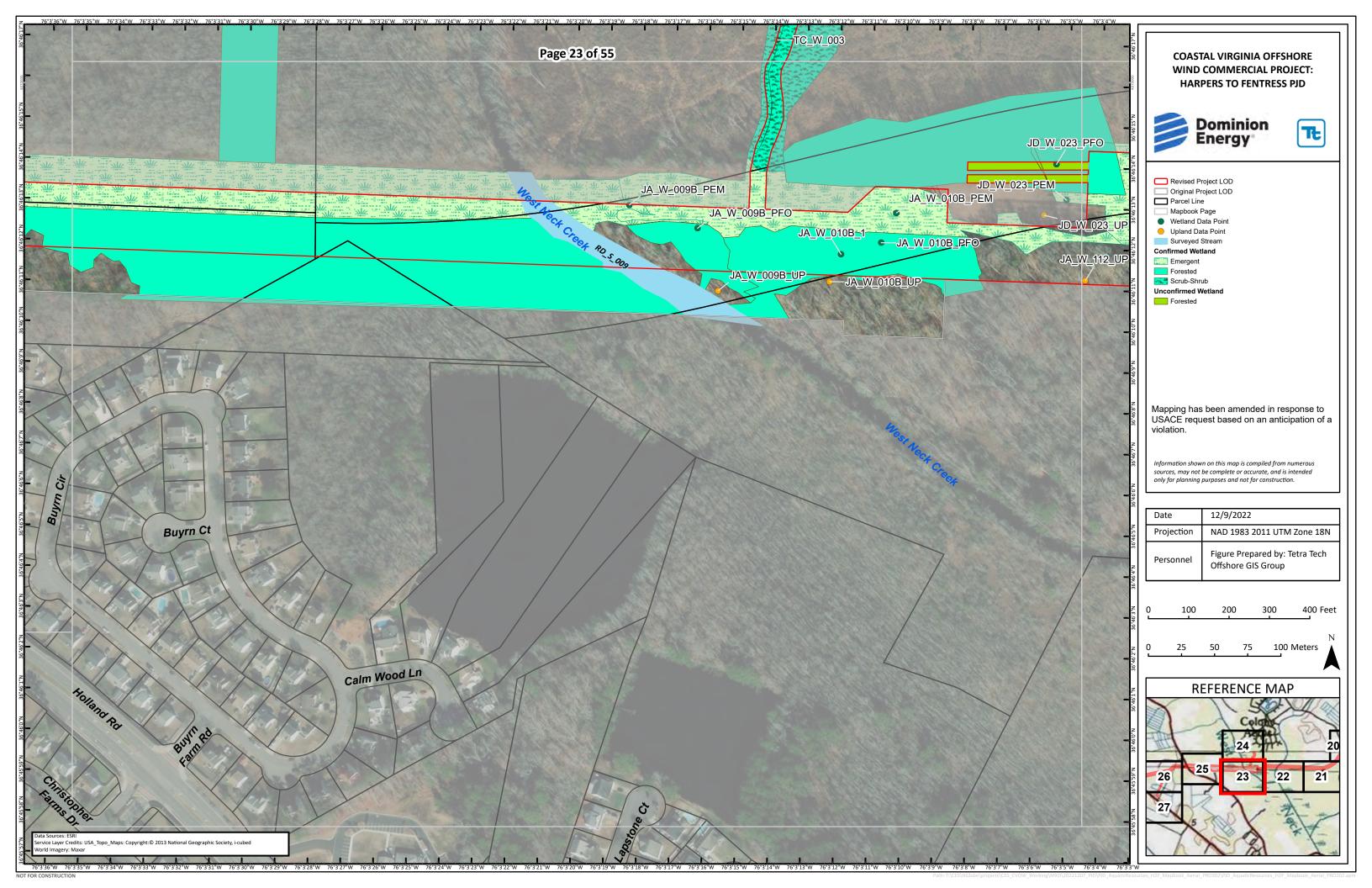


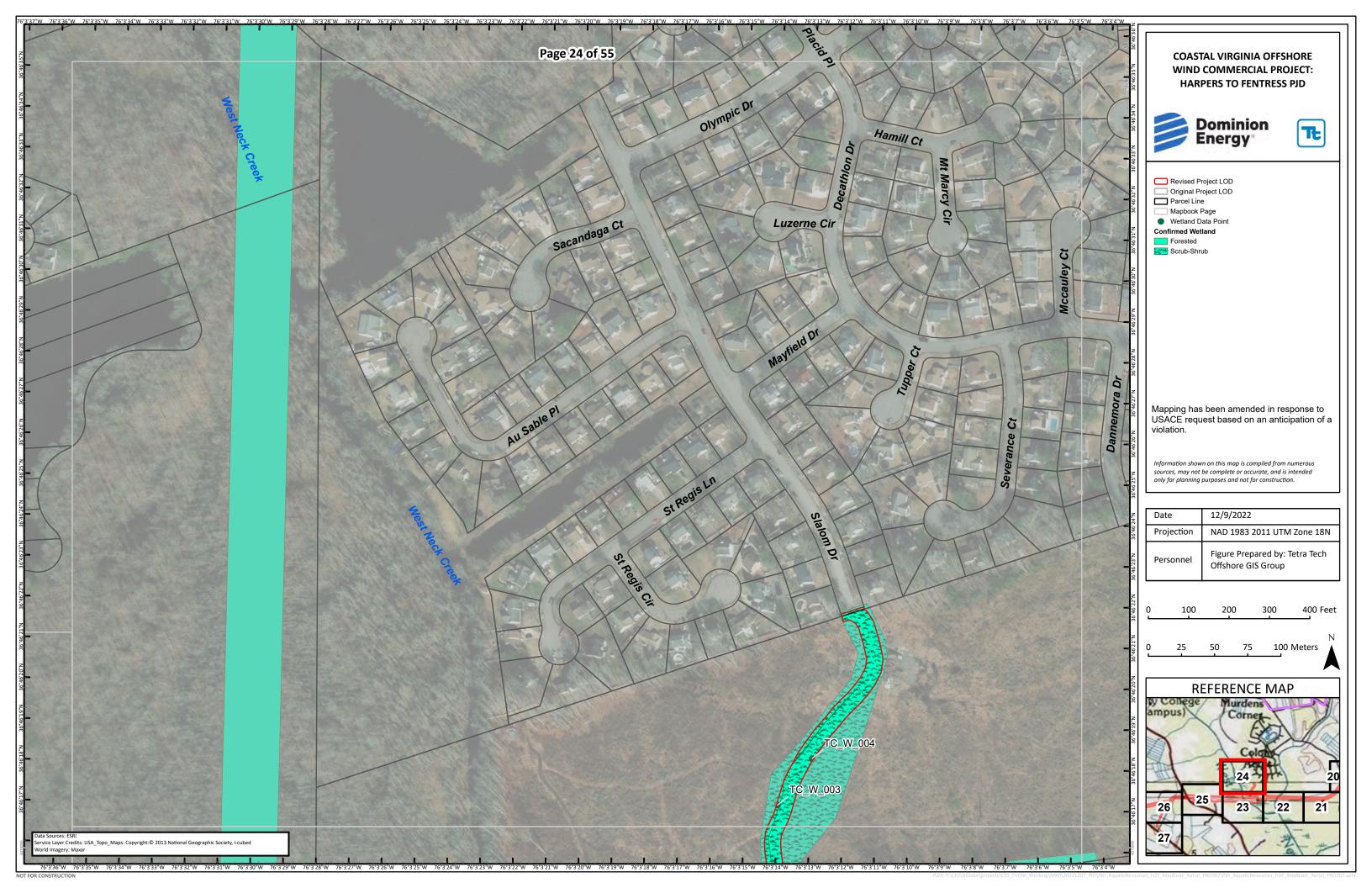


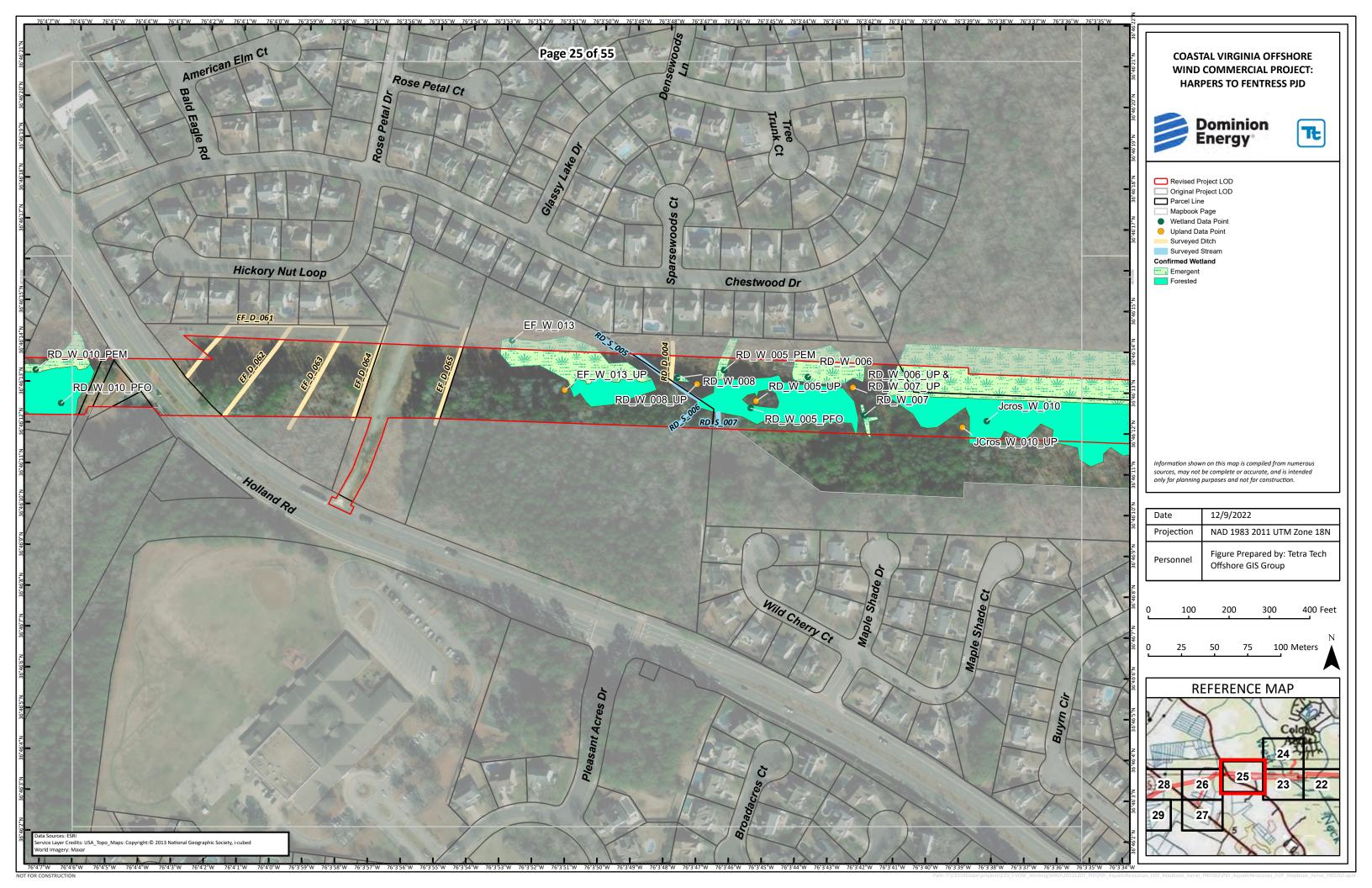












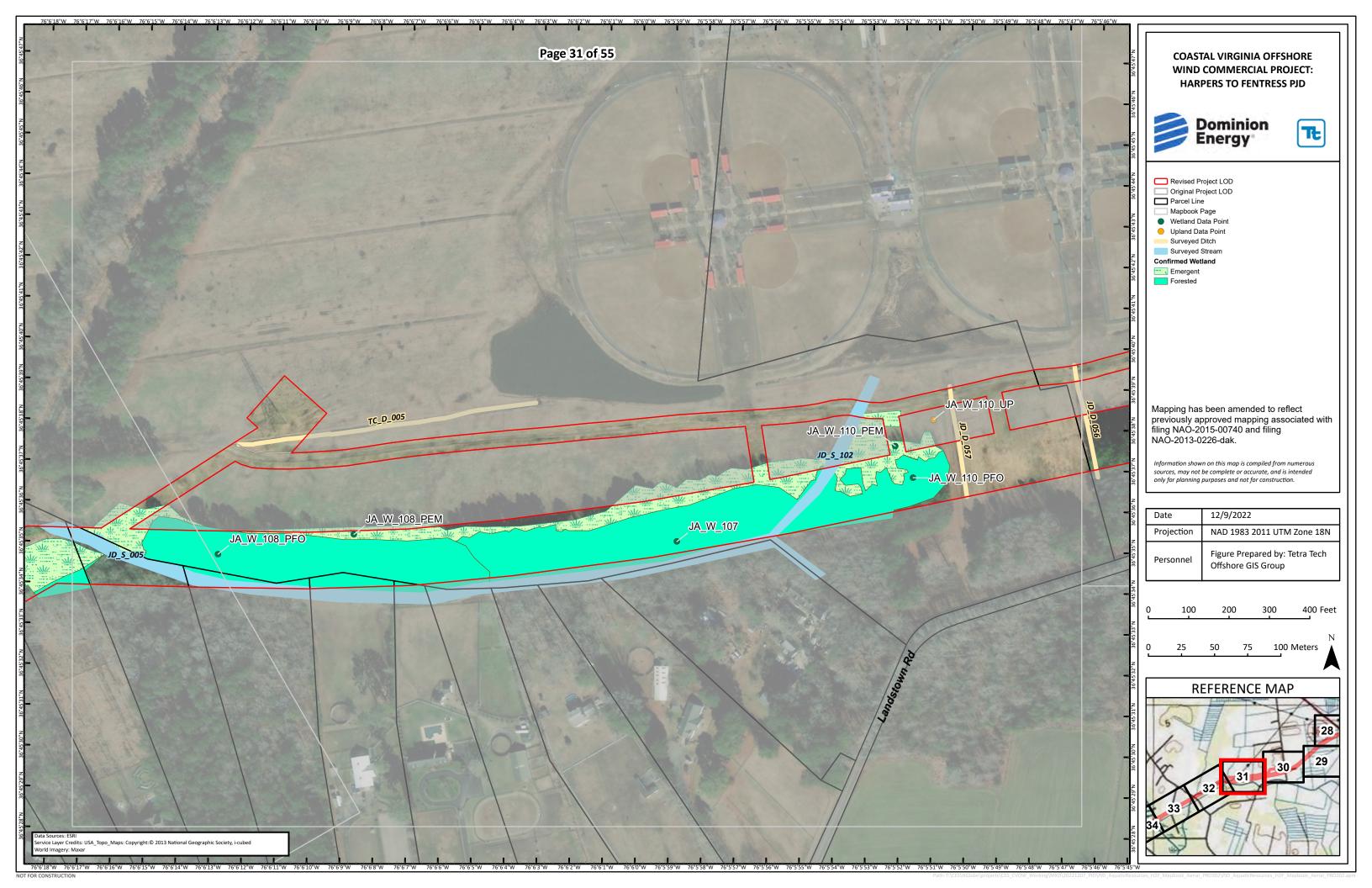




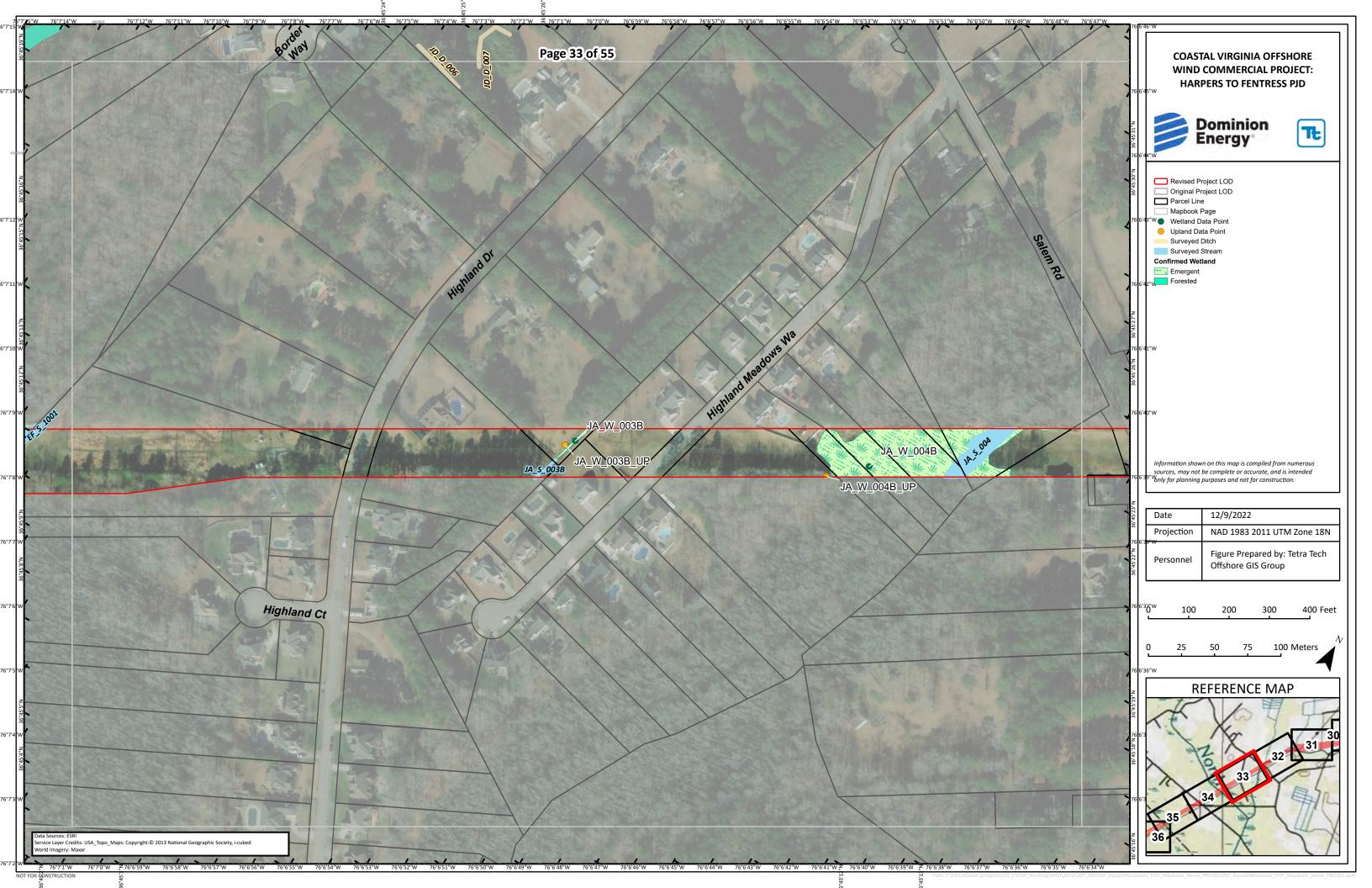


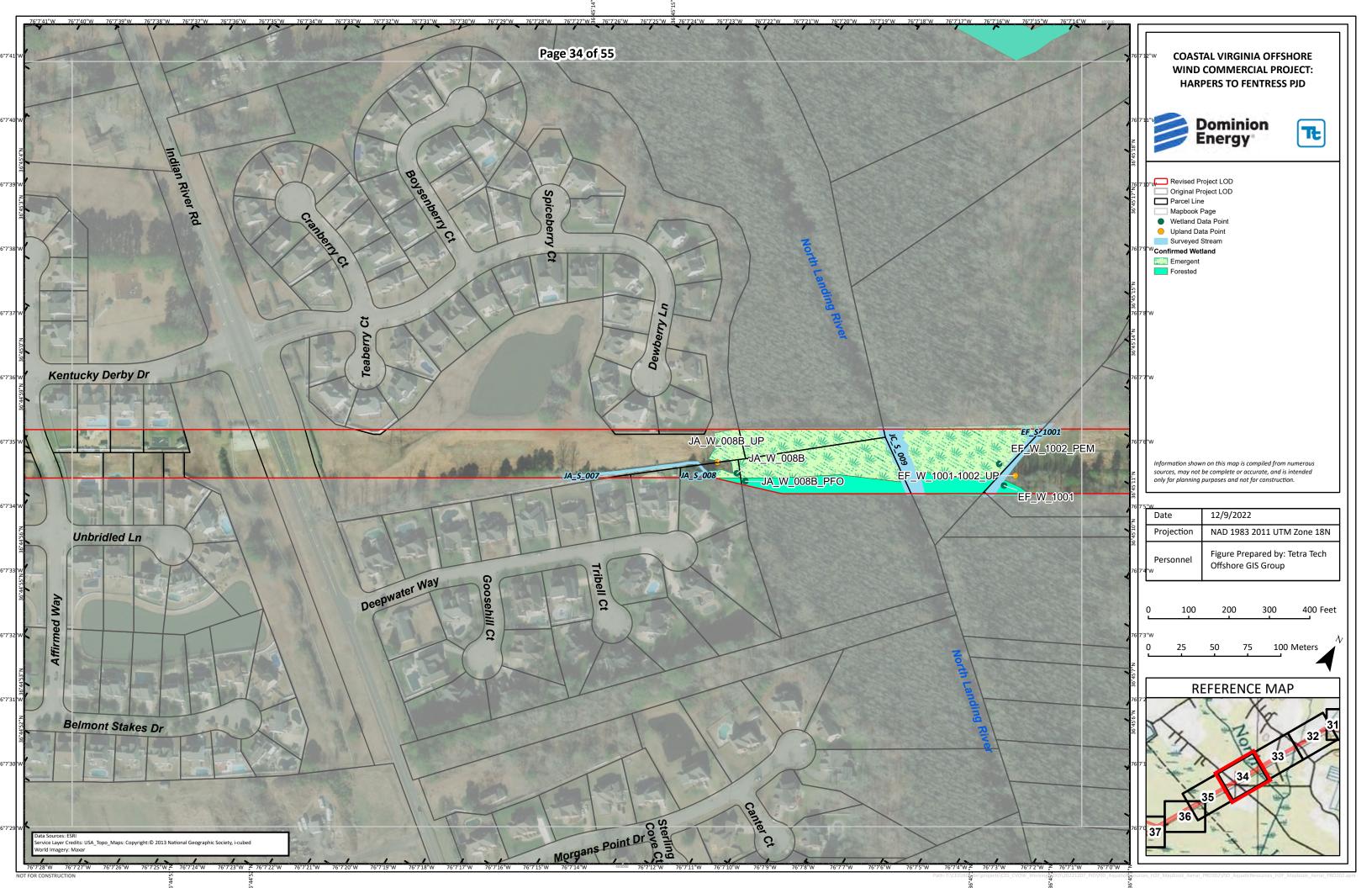




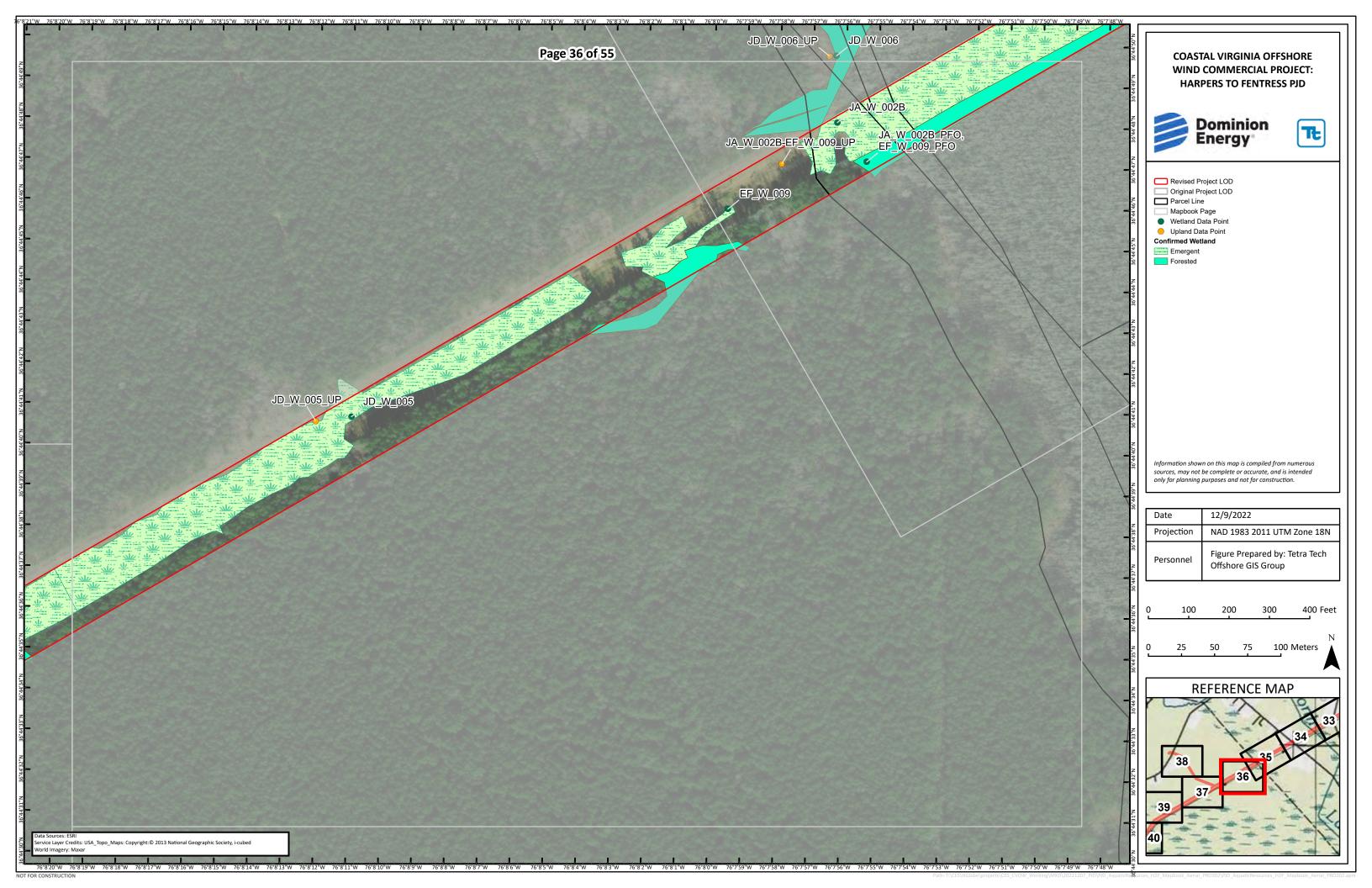


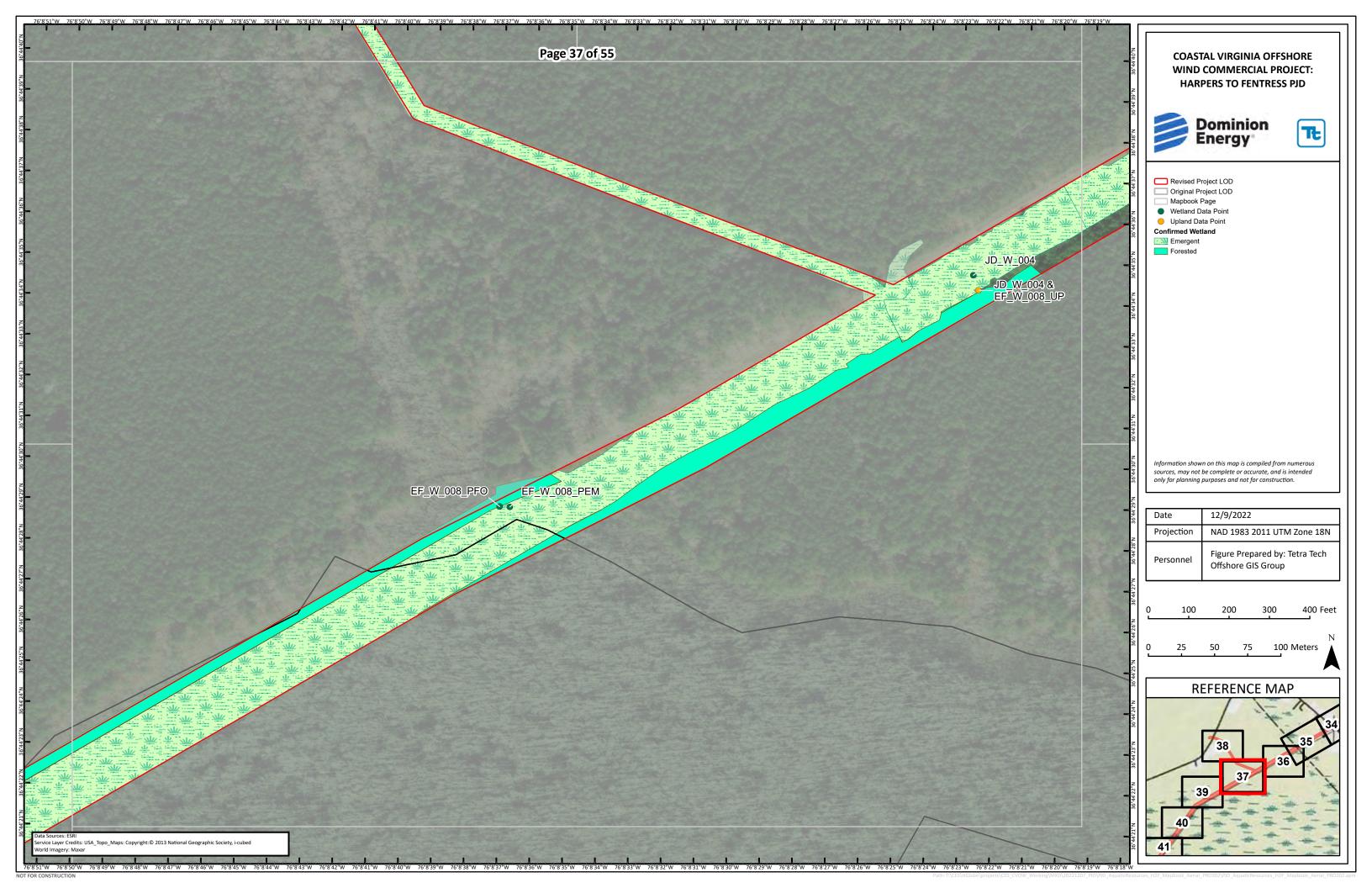








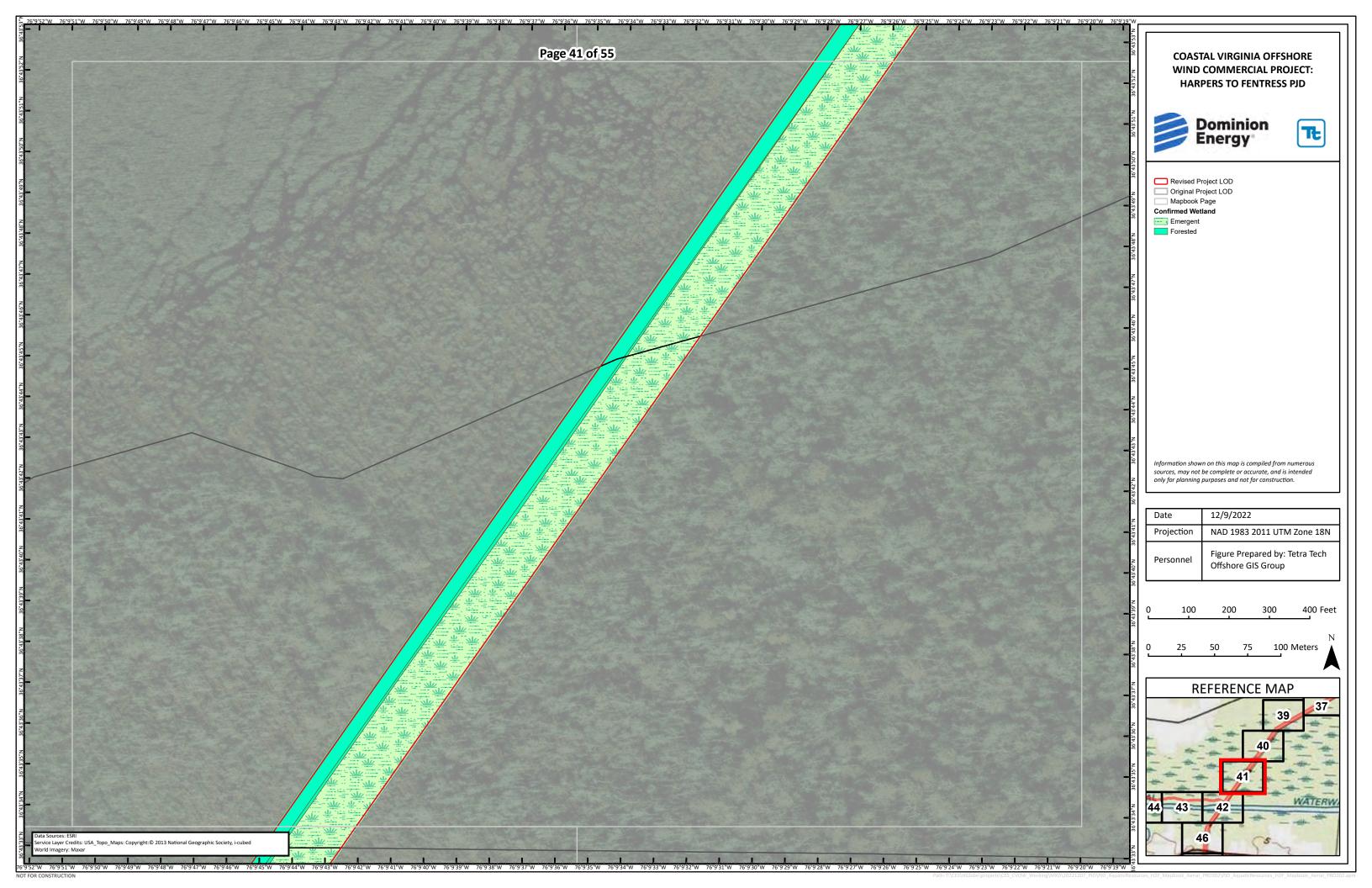


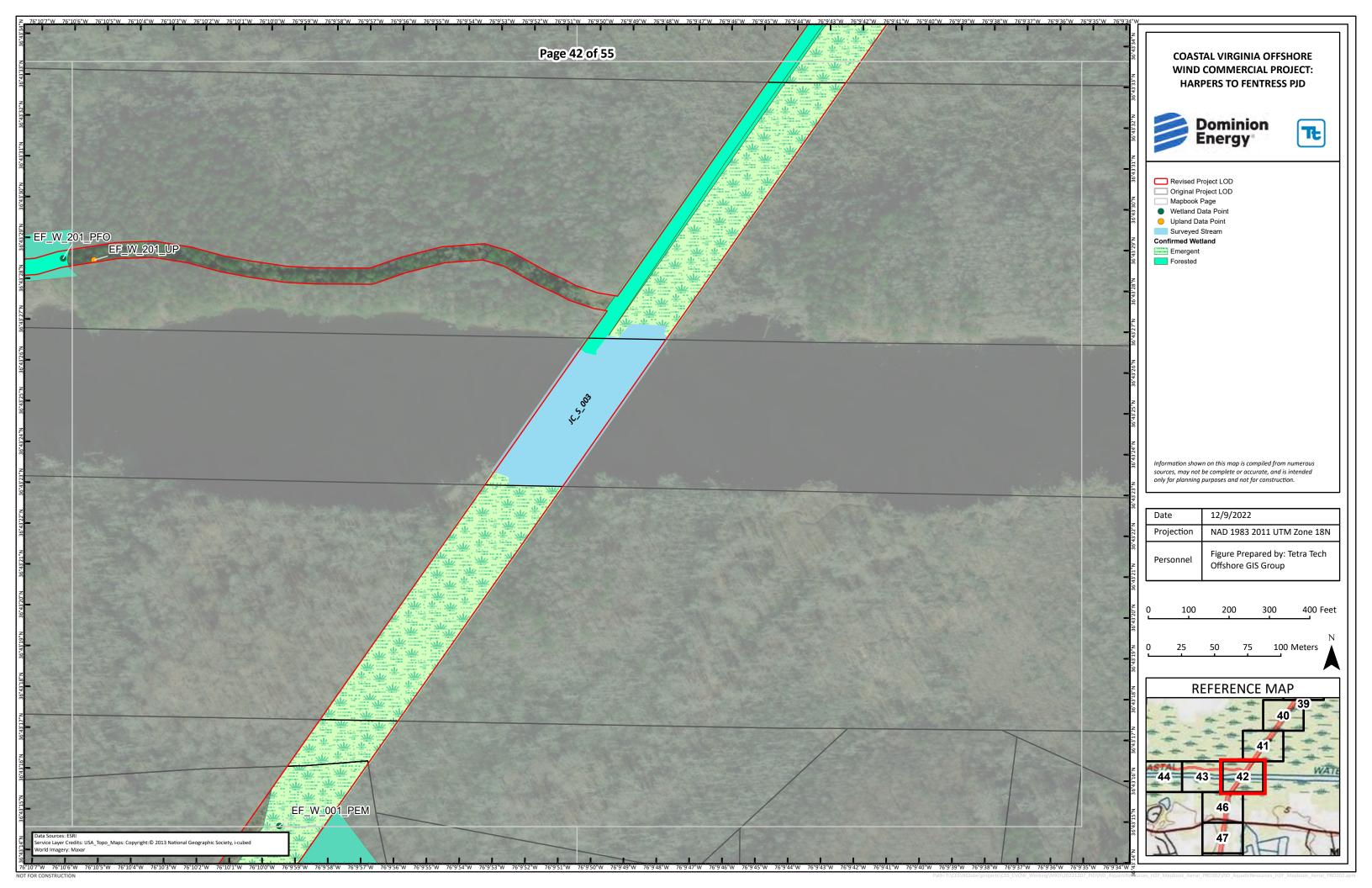




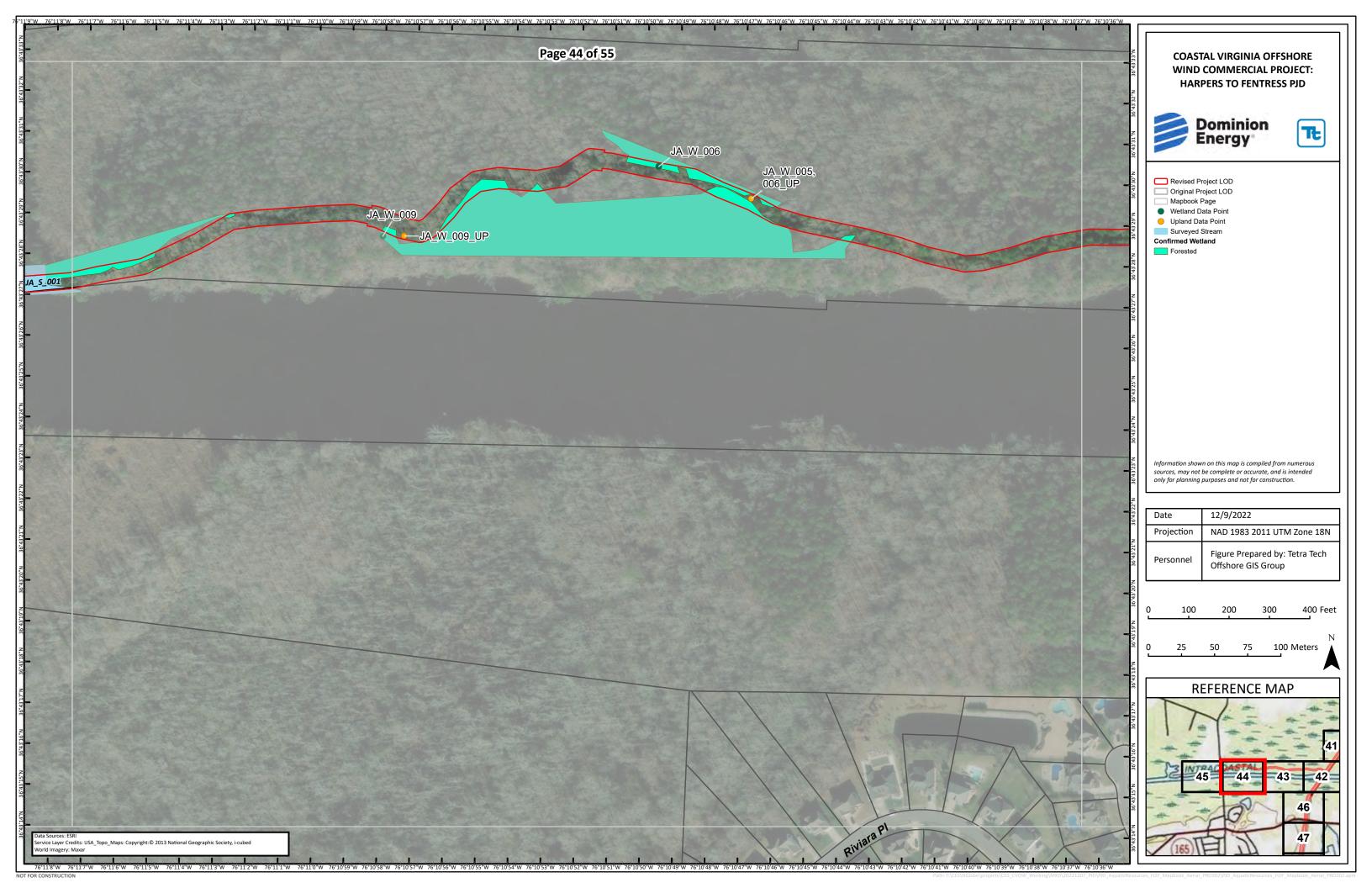


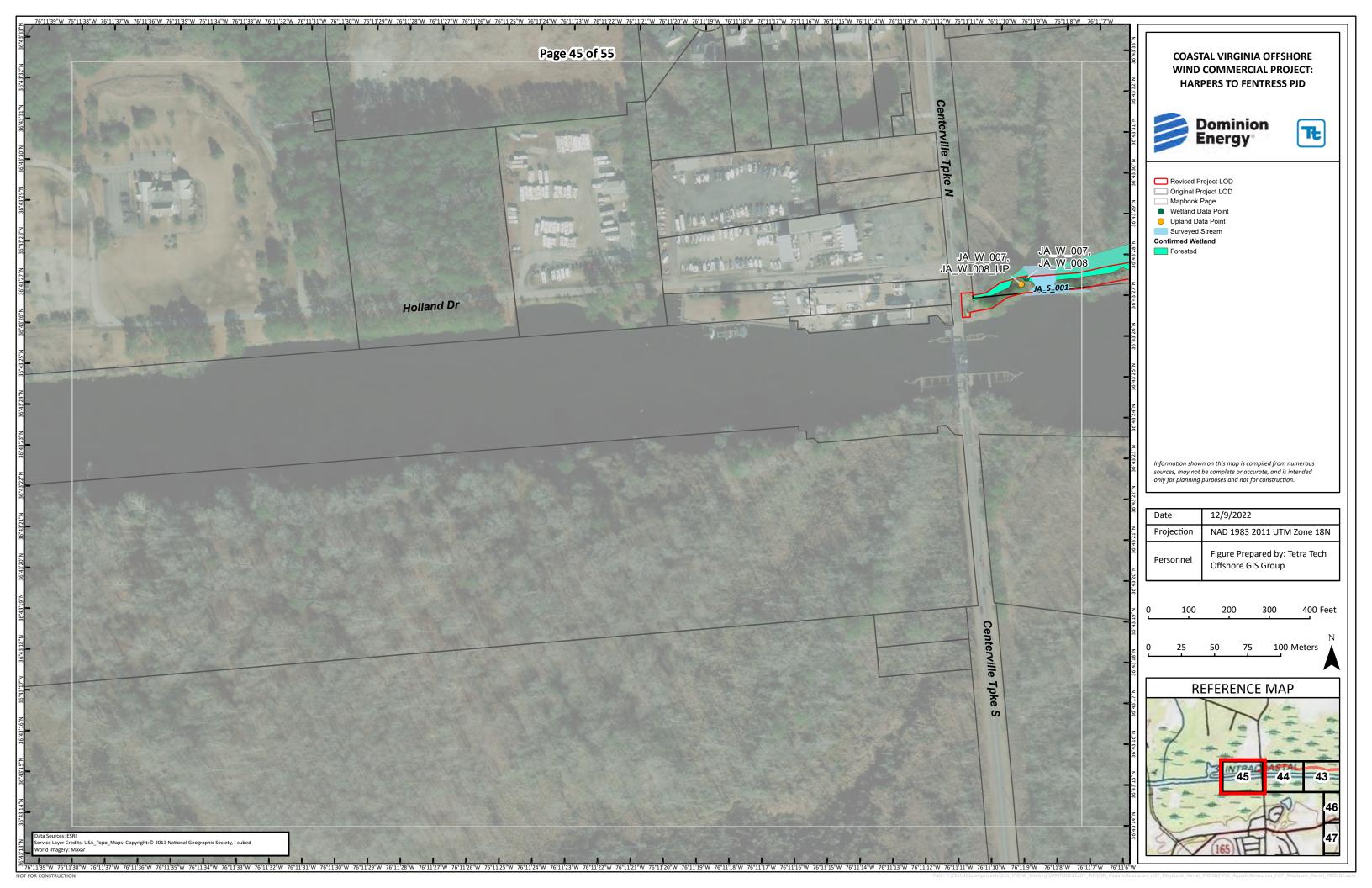


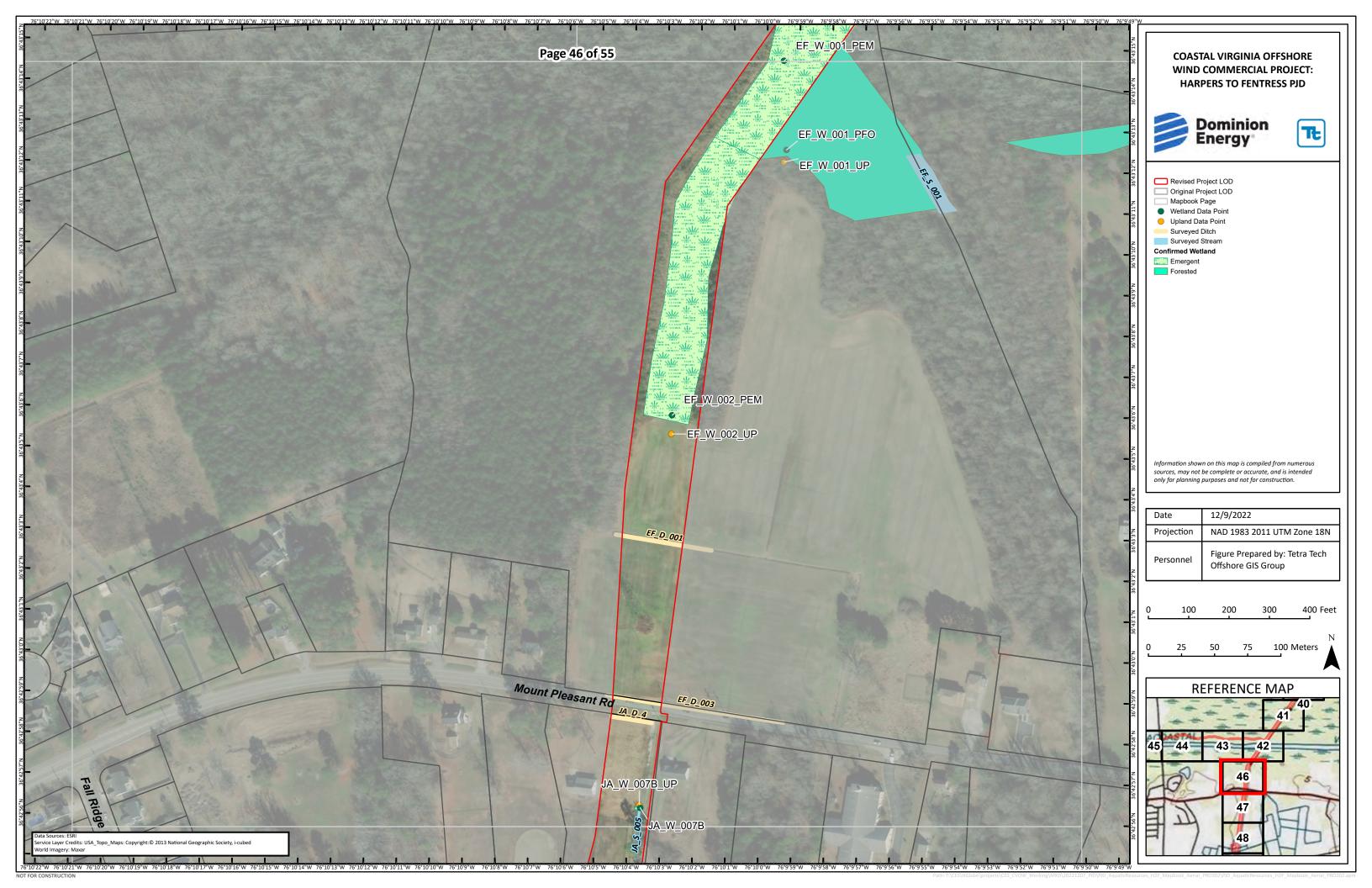


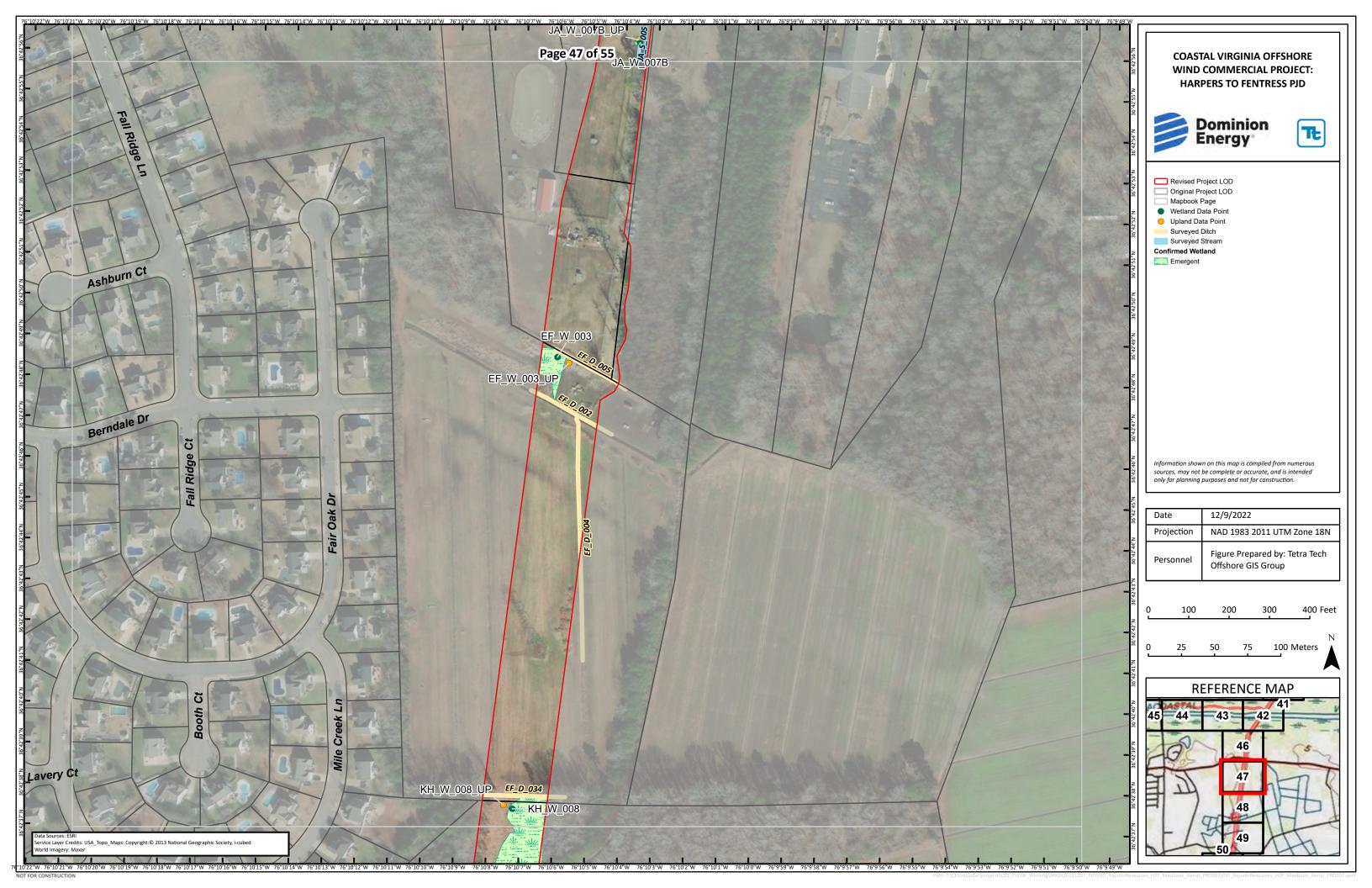




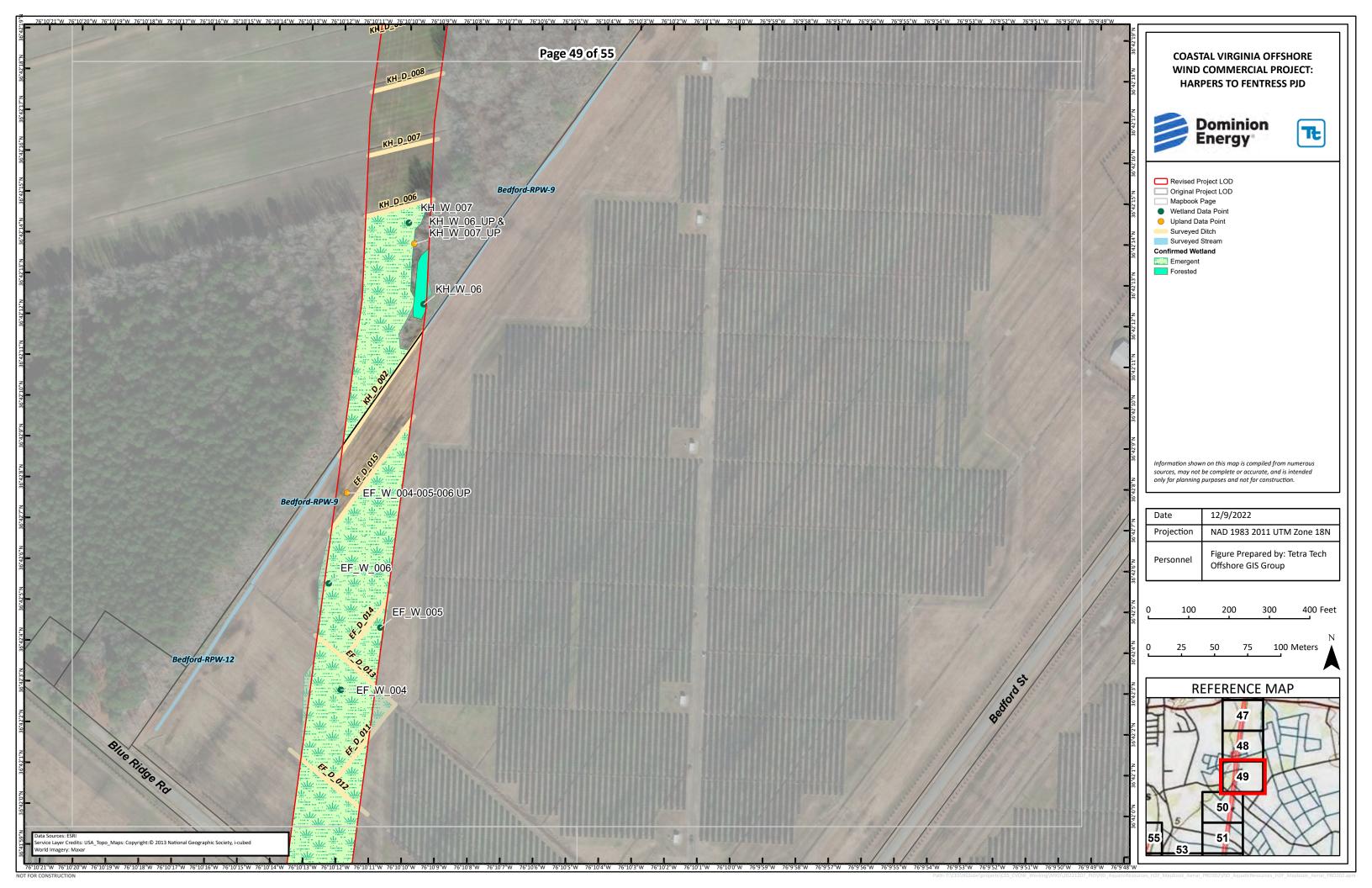


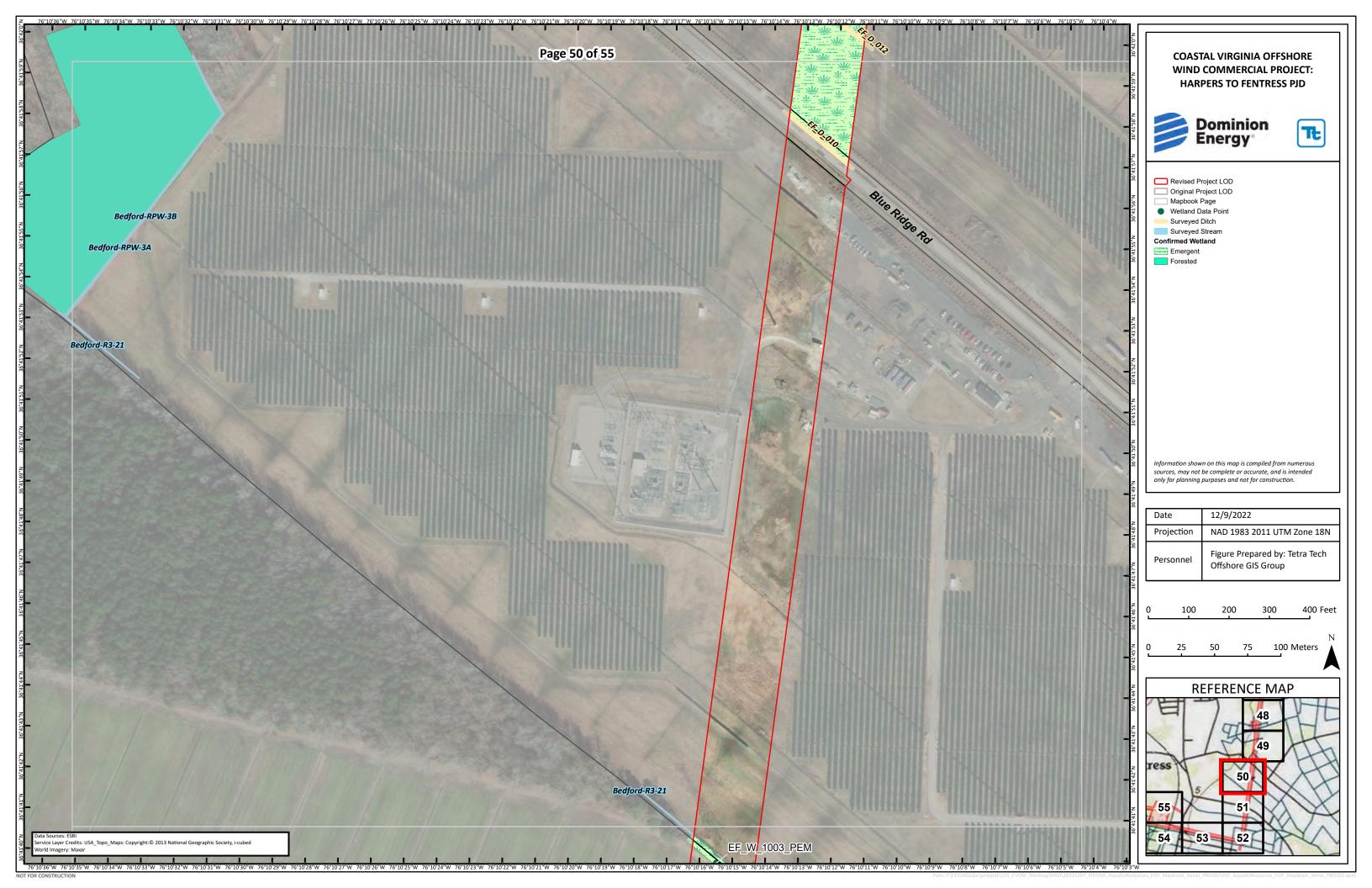


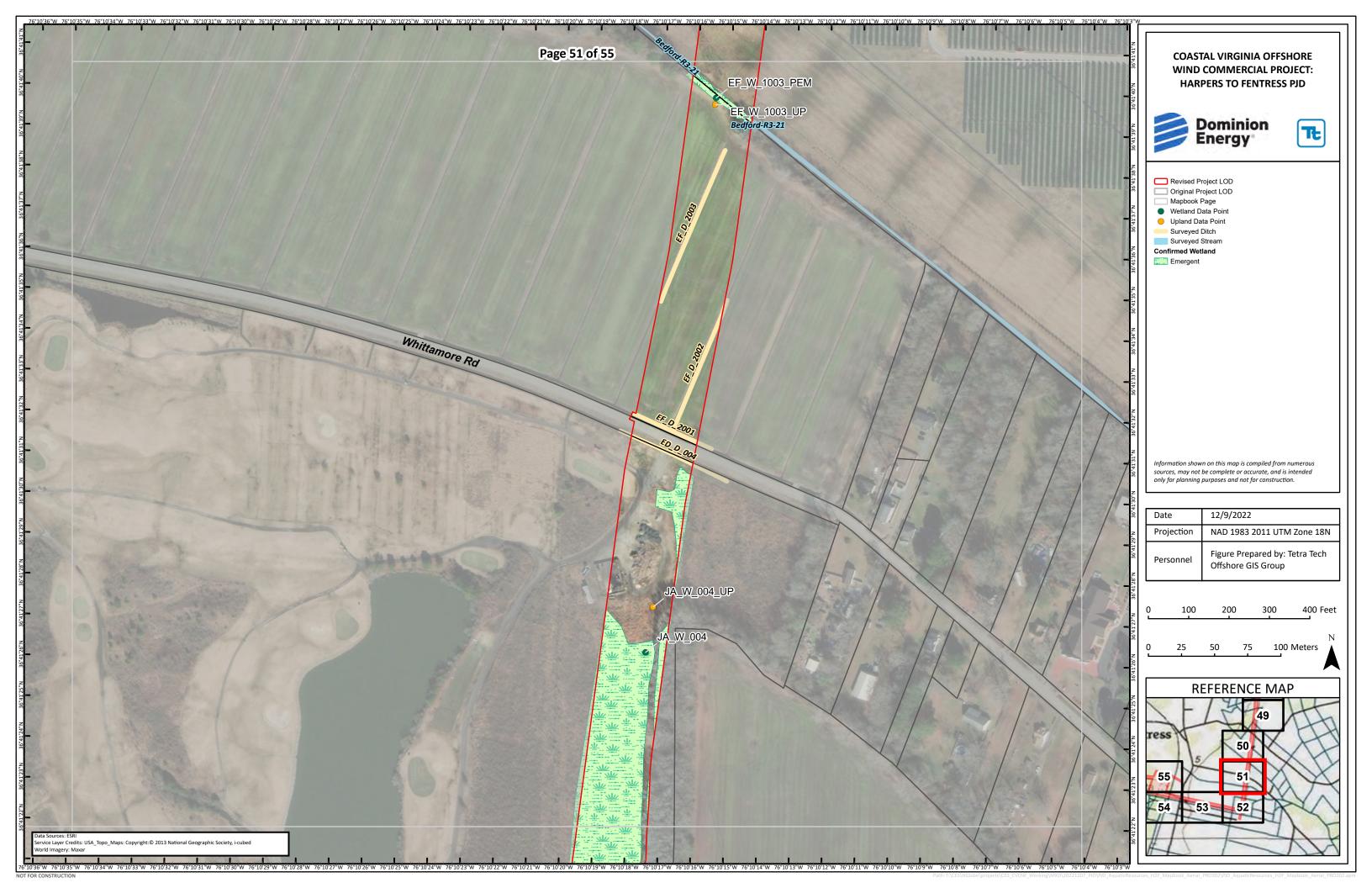


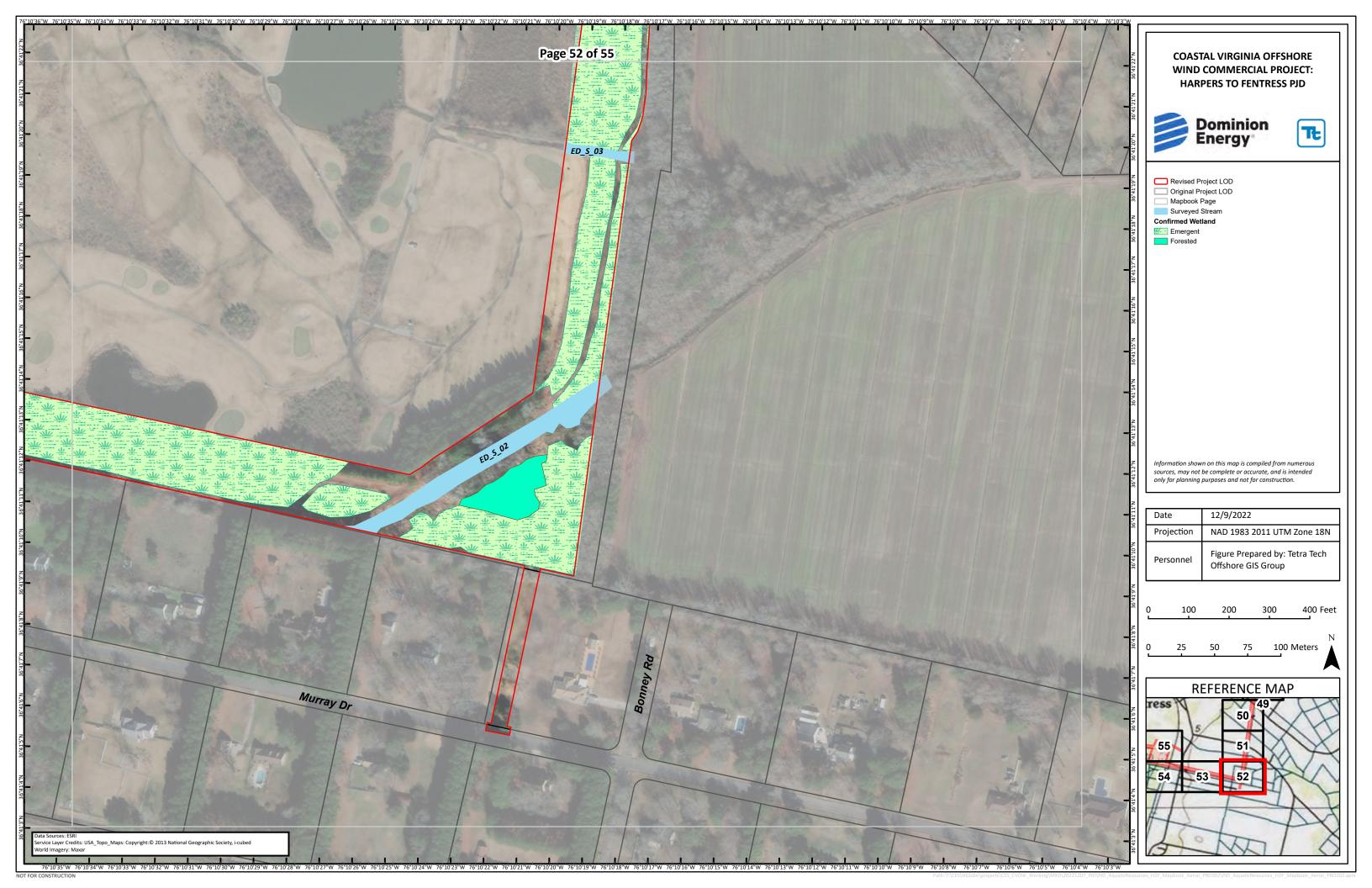


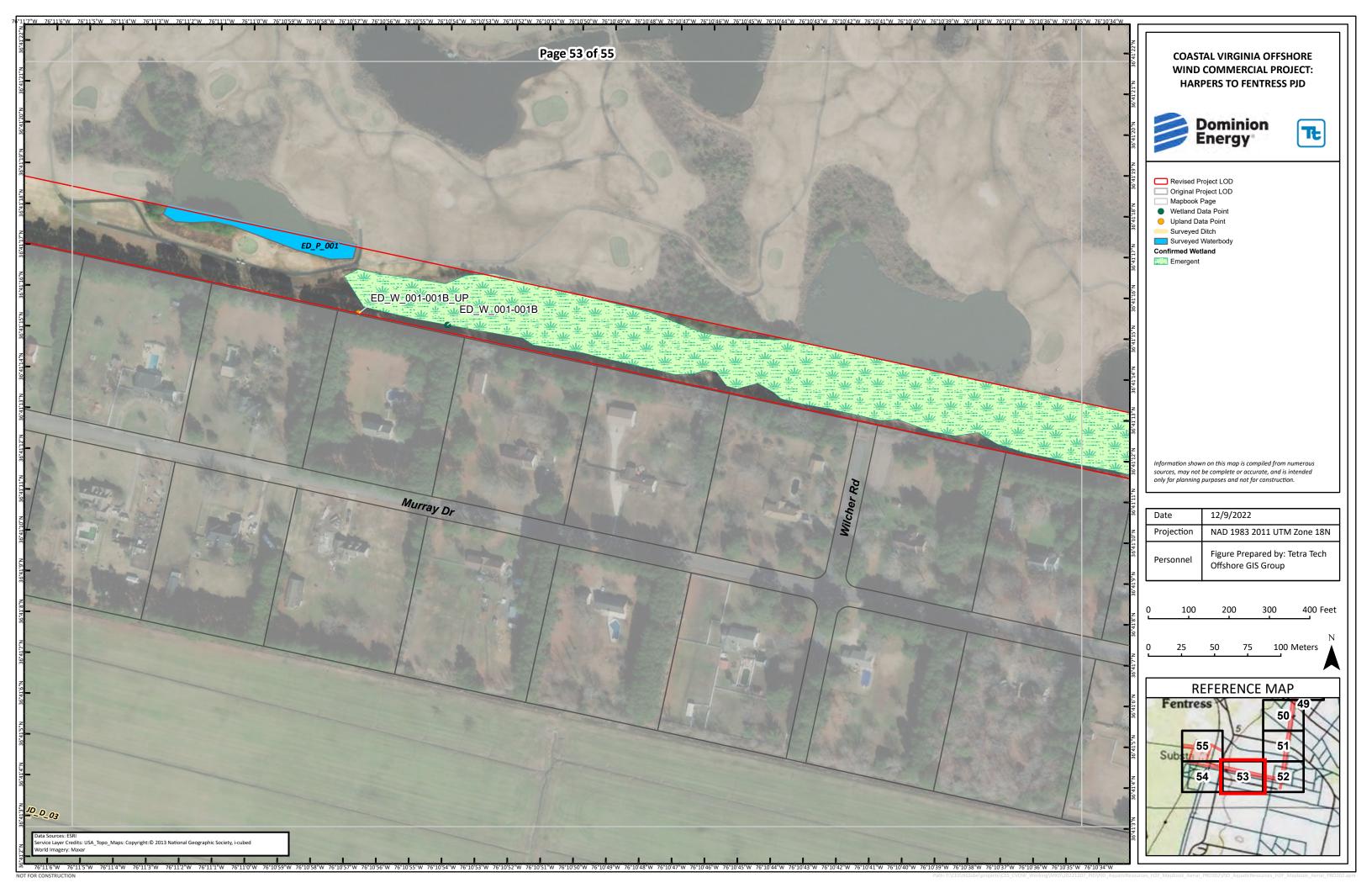


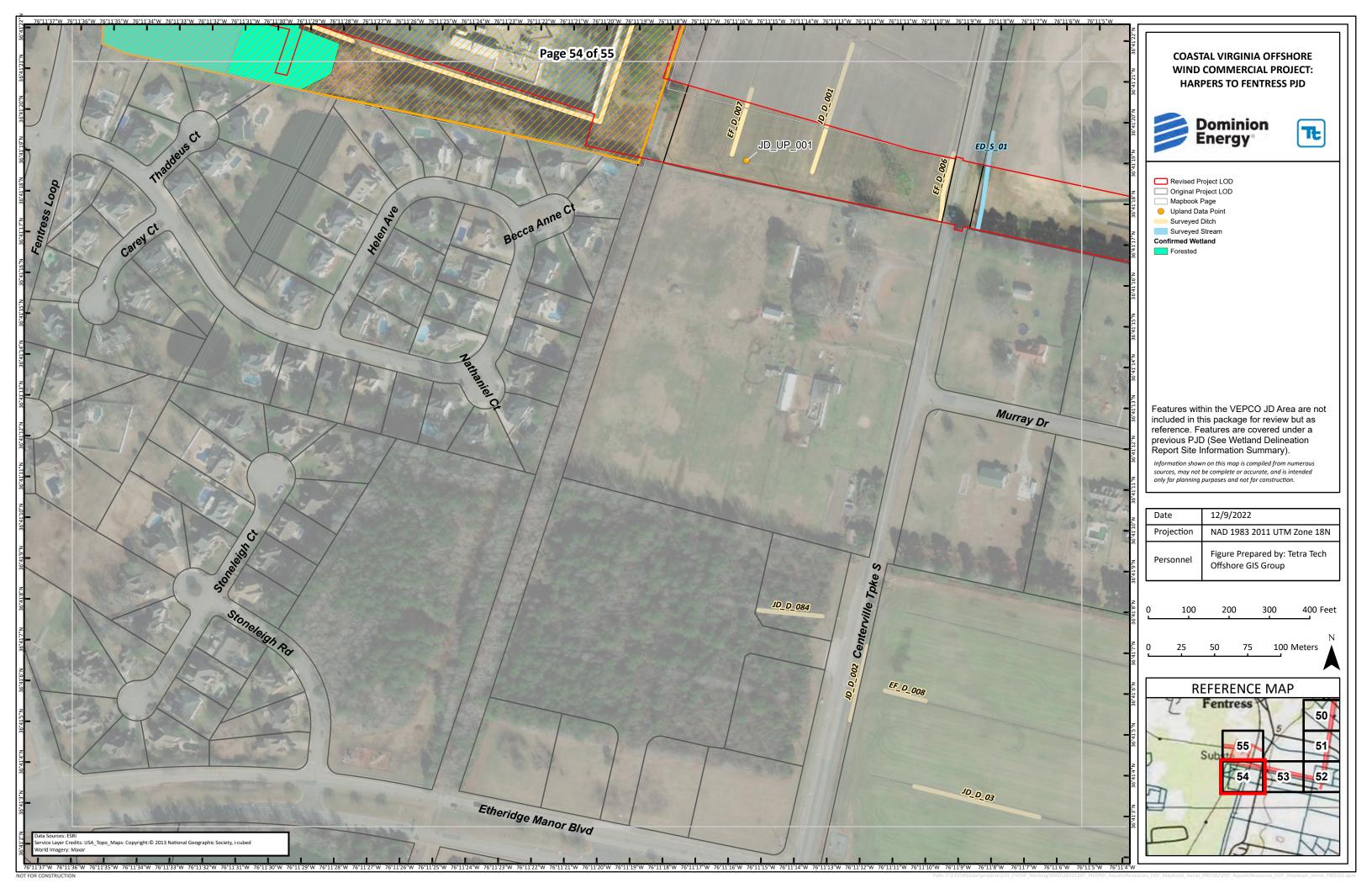














ATTACHMENT U-3: PJD APPROVAL LETTER AND PJD FORM

July 2023 Page U-4



DEPARTMENT OF THE ARMY

US ARMY CORPS OF ENGINEERS
NORFOLK DISTRICT
FORT NORFOLK
803 FRONT STREET
NORFOLK VA 23510-1011

September 29, 2022

PRELIMINARY JURISDICTIONAL DETERMINATION

Southern Virginia Regulatory Section NAO-2013-00418 (Atlantic Ocean, Northlanding River, West Neck Creek, Owl Creek, AIWW)

Virginia Electric and Power Company Attn: Kevin Fields 10900 Nuckols Road, 4th Floor Glen Allen, Virginia 23060

Dear Mr. Fields:

This letter is in regard to your request for a preliminary jurisdictional determination of the aquatic resources (e.g., wetlands, streams, and ponds), within an approximately 475-acre study area located within existing and proposed utility corridors, known as the Coastal Virginia Offshore Wind (CVOW) Project, in Chesapeake and Virginia Beach, Virginia, hereinafter referred to as project area.

The map entitled "Coastal Virginia Offshore Wind Commercial Project: Harpers to Fentress PJD," dated August 25, 2022 and received by the U.S. Army Corps of Engineers (Corps) on August 26, 2022 (copy enclosed) provides the locations of the aquatic resources within the project area referenced above. This letter is not confirming the Cowardin classifications of these aquatic resources.

These aquatic resources exhibit wetland criteria as defined in the 1987 Corps of Engineers Wetland Delineation Manual, and the Atlantic and Gulf Coastal Plain Regional Supplement. This site also contains aquatic resources with an ordinary highwater mark (or high tide line).

This preliminary jurisdictional determination and associated aquatic resource delineation map may be submitted with a permit application.

Please be aware that you may be required to obtain a Corps permit for any discharge of dredged and/or fill material, either temporary or permanent, into a water of the U.S. In addition, you may be required to obtain a Corps permit for certain activities occurring within, under, or over a navigable water of the U.S. subject to the Section 10 of the Rivers and Harbors Act. Furthermore, you may be required to obtain state and local authorizations, including a Virginia Water Protection Permit from the Virginia Department of Environmental Quality (DEQ), a permit from the Virginia Marine Resources Commission (VMRC), and/or a permit from your local wetlands board.

This delineation and preliminary jurisdictional determination may not be valid for the Wetland Conservation Provisions of the Food Security Act of 1985, as amended. Therefore, if you or your tenant are US Department of Agriculture (USDA) program participants, or anticipate participation in USDA programs, you should discuss the applicability of a certified wetland determination with the local USDA service center, prior to starting work.

The Norfolk District has relied on the information and data provided by the requestor or agent to make this preliminary determination. If it is determined such information and data are materially false or materially incomplete, a new preliminary determination would be necessary.

This is a preliminary jurisdictional determination and is not a legally binding determination regarding whether Corps jurisdiction applies to the aquatic resources in question. To determine Corps' jurisdiction, you may request and obtain an approved jurisdictional determination.

This delineation of aquatic resources can be relied upon for no more than five years from the date of this letter. New information may warrant revision. Enclosed is a copy of the "Preliminary Jurisdictional Determination Form". Please review the document, sign, and return one copy to the Corps, either by email nicole.l.woodward@usace.army.mil or by standard mail to Attn: Nicole Woodward, U.S. Army Corps of Engineers, Norfolk District, CENAO-WR-R, 803 Front Street, Norfolk, VA 23510-1011.

If you have any questions, please contact the office either by telephone at (757) 201-7122 or by email at nicole.l.woodward@usace.army.mil.

Sincerely,

Nicole L. Woodward

Digitally signed by Nicole L. Woodward Date: 2022.09.29 12:59:45 -04'00'

Nicole L. Woodward Southern Virginia Regulatory Section

Enclosure(s):

cc: Agent

DĔQ VMRC BOEM

Appendix 2 - PRELIMINARY JURISDICTIONAL DETERMINATION (PJD) FORM

BACKGROUND INFORMATION

A. REPORT COMPLETION DATE FOR PJD: 9/29/2022

B. NAME AND ADDRESS OF PERSON REQUESTING PJD:

Manager Transmission Services

C. DISTRICT OFFICE, FILE NAME, AND NUMBER:

CENAO-WR-RS, Coastal Virginia Offshore Wind, NAO-2013-00418

D. PROJECT LOCATION(S) AND BACKGROUND INFORMATION:

(USE THE TABLE BELOW TO DOCUMENT MULTIPLE AQUATIC RESOURCES AND/OR **AQUATIC RESOURCES AT DIFFERENT SITES)**

State: Virginia

County/parish/borough:

City: Virginia Beach and Chesapeake

Center coordinates of site (lat/long in degree decimal format): 36.760048°, -76.098612°

Lat.: xx.xxx° Long.: yy.yyy°

Universal Transverse Mercator:

Name of nearest waterbody: Atlantic Ocean, West Neck Creek, Northland River, Atlantic

E. REVIEW PERFORMED FOR SITE EVALUATION (CHECK ALL THAT APPLY):

Office (Desk) Determination. Date: 9/29/2022

Field Determination. Date(s): 7/26/2022, 7/28/2022, 8/9/2

TABLE OF AQUATIC RESOURCES IN REVIEW AREA WHICH "MAY BE" SUBJECT TO REGULATORY JURISDICTION.

Site number	Latitude (decimal degrees)	Longitude (decimal degrees)	Estimated amount of aquatic resource in review area (acreage and linear feet, if applicable)	Type of aquatic resource (i.e., wetland vs. non-wetland waters)	Geographic authority to which the aquatic resource "may be" subject (i.e., Section 404 or Section 10/404)
1	36.818445°	-75.988078°	0.94 +/-	wetlands	10/404
2	36.818215°	-75.987434°	6.93 +/-	non-wetland waters	10/404
3	36.741010°	-76.144019°	131.89 +/-	wetlands	404
4	36.759720°	-76.104569°	1.69 +/-	non-wetland waters	404

- The Corps of Engineers believes that there may be jurisdictional aquatic resources in the review area, and the requestor of this PJD is hereby advised of his or her option to request and obtain an approved JD (AJD) for that review area based on an informed decision after having discussed the various types of JDs and their characteristics and circumstances when they may be appropriate.
- 2) In any circumstance where a permit applicant obtains an individual permit, or a Nationwide General Permit (NWP) or other general permit verification requiring "preconstruction notification" (PCN), or requests verification for a non-reporting NWP or other general permit, and the permit applicant has not requested an AJD for the activity, the permit applicant is hereby made aware that; (1) the permit applicant has elected to seek a permit authorization based on a PJD, which does not make an official determination of jurisdictional aquatic resources; (2) the applicant has the option to request an AJD before accepting the terms and conditions of the permit authorization, and that basing a permit authorization on an AJD could possibly result in less compensatory mitigation being required or different special conditions; (3) the applicant has the right to request an individual permit rather than accepting the terms and conditions of the NWP or other general permit authorization; (4) the applicant can accept a permit authorization and thereby agree to comply with all the terms and conditions of that permit, including whatever mitigation requirements the Corps has determined to be necessary; (5) undertaking any activity in reliance upon the subject permit authorization without requesting an AJD constitutes the applicant's acceptance of the use of the PJD; (6) accepting a permit authorization (e.g., signing a proffered individual permit) or undertaking any activity in reliance on any form of Corps permit authorization based on a PJD constitutes agreement that all aquatic resources in the review area affected in any way by that activity will be treated as jurisdictional, and waives any challenge to such jurisdiction in any administrative or judicial compliance or enforcement action, or in any administrative appeal or in any Federal court; and (7) whether the applicant elects to use either an AJD or a PJD, the JD will be processed as soon as practicable. Further, an AJD, a proffered individual permit (and all terms and conditions contained therein), or individual permit denial can be administratively appealed pursuant to 33 C.F.R. Part 331. If, during an administrative appeal, it becomes appropriate to make an official determination whether geographic jurisdiction exists over aquatic resources in the review area, or to provide an official delineation of jurisdictional aquatic resources in the review area, the Corps will provide an AJD to accomplish that result, as soon as is practicable. This PJD finds that there "may be" waters of the U.S. and/or that there "may be" navigable waters of the U.S. on the subject review area, and identifies all aquatic features in the review area that could be affected by the proposed activity, based on the following information:

SUPPORTING DATA. Data reviewed for PJD (check all that apply)

Checked items should be included in subject file. Appropriately reference sources below where indicated for all checked items: Maps, plans, plots or plat submitted by or on behalf of the PJD requestor:
"Coastal Virginia Offshore Wind Commercial Project: Harpers to Fentress PJD," dated August 25, Map: 2022 and Corps date stamped as received August 26, 2022. Data sheets prepared/submitted by or on behalf of the PJD requestor. Office concurs with data sheets/delineation report. Office does not concur with data sheets/delineation report. Rationale:

Project managers noted discrepancies on some data sheets, including with some plant species and soil profiles that were identified, that conflict with what was viewed in the field during the site visit. Some plots appear to contain hydric soils that are Data sheets prepared by the Corps: not listed on the data sheets. Dry season and prior disturbance required the use of Ch. 5 for some Corps navigable waters' study: _____ areas. U.S. Geological Survey Hydrologic Atlas: USGS NHD data. USGS 8 and 12 digit HUC maps. U.S. Geological Survey map(s). Cite scale & quad name: 1:24k Virginia Beach; 1:24k Kempsville, 1:24k Princess Anne Natural Resources Conservation Service Soil Survey. Citation: Corps Regulatory Reporting Tool National wetlands inventory map(s). Cite name: Corps Regulatory Reporting Tool State/local wetland inventory map(s): FEMA/FIRM maps: 100-year Floodplain Elevation is: _____. (National Geodetic Vertical Datum of 1929) Aerial (Name & Date): GoogleEarth Photographs: Other (Name & Date): Lidar. Previous determination(s). File no. and date of response letter: NAO-18-0436 (6/27/2018), NAO-13-0418 (3/24/2014), Other information (please specify): The Corps has relied on the information provided by the applicant. Due to the size of the delineation and time constraints, the field verification was divided among multiple Corps project managers and they did not visit all area covered by this (12/19/2018), NAO-16-0774 (10/12/16), IMPORTANT NOTE: The information recorded on this form has not necessarily NAO-06-6466(05/20/20), been verified by the Corps and should not be relied upon for later jurisdictional AO-10-02519 (2010), NAO-2008-2946(5/11/2016), determinations. NAO-2021-1006 (6/23/2021). NAO-2021-0371(6/24/2021), Digitally signed by Nicole L. Nicole L. NAO-18-1177(3/14/2019) Woodward Date: 2022.09.29 12:49:50 Woodward 09/29/2022 -04'00' Signature and date of Signature and date of

person requesting PJD

(REQUIRED, unless obtaining the signature is impracticable)¹

Regulatory staff member

completing PJD

¹ Districts may establish timeframes for requestor to return signed PJD forms. If the requestor does not respond within the established time frame, the district may presume concurrence and no additional follow up is necessary prior to finalizing an action.

ATTACHMENT U-4: PJD ADDENDUM (JUNE 2023)

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