

APPENDIX C

Wetland Determination Data Forms & Stream Data Forms

Part 1

Project/Site: High Rive	er	C	ity/County: Amst	erdam,			Sampling Date	: 2017-July-17
Applicant/Owner: N	extEra				State:	New York	Sampling Point:	W-AJF-01; PEM-2
Investigator(s): Anthony Froonjian, AJW Section, Township, Range:								
Landform (hillslope, te	rrace, etc.):	Swale	I	Local relief	(concave,	convex, none):	Concave	Slope (%): 2-5
Subregion (LRR or MLF	RA): LRR L			Lat:	42.903306	5 Long:	-74.1359593	Datum: WGS84
Soil Map Unit Name:	Appleton silt	loam, 3 to 8 perc	ent slopes (ApB)				NWI classifi	cation:
Are climatic/hydrologic	conditions on	the site typical for	or this time of yea	ır?	Yes 🖌	_ No (If n	o, explain in Rema	arks.)
Are Vegetation,	Soil,	or Hydrology	_ significantly dist	turbed?	Are "N	ormal Circums	stances" present?	Yes 🟒 No
Are Vegetation,	Soil,	or Hydrology	_ naturally proble	ematic?	(If nee	ded, explain ar	ny answers in Rem	narks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present?	Yes 🖌 No Yes 🖌 No	Is the Sampled Area within a Wetland?	Yes / No
Wetland Hydrology Present?	Yes No	If yes, optional Wetland Site ID:	W-AJF-01
Remarks: (Explain alternative procedur	es here or in a separate re	port)	
TRC covertype is PEM			

Primary Indicators (minimum of one is required; check all that apply) Sec	condary Indicators (minimum of two required)		
Surface Water (A1) Water-Stained Leaves (B9) High Water Table (A2) Aquatic Fauna (B13) Saturation (A3) Marl Deposits (B15) Water Marks (B1) Hydrogen Sulfide Odor (C1)	Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imageny (C9)		
Drift Deposits (B3) Presence of Reduced Iron (C4) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Iron Deposits (B5) Thin Muck Surface (C7) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Sparsely Vegetated Concave Surface (B8)	 		
Field Observations:			
Surface Water Present? Yes No _ 🗸 Depth (inches):			
Water Table Present? Yes 🧹 No Depth (inches): 12 We	etland Hydrology Present? Yes 🟒 No		
Saturation Present? Yes 🖌 No Depth (inches): 8			
(includes capillary fringe)			
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if avail Remarks:	lable:		

Sampling Point: W-AJF-01; PEM-2

Tree Stratum (Plot size: 20 ft)	Absolute	Dominant	Indicator	Dominance Test works	heet:		
	% Cover	Species?	Status	Number of Dominant	Species That	2	(A)
1				Are OBL, FACW, or FAC			
2.				Total Number of Domi	nant Species	2	(B)
3.				Across All Strata:			
4.		<u> </u>		Percent of Dominant S	pecies That	100	(A/B)
5.		<u> </u>		Are OBL, FACW, or FAC			
6.		<u> </u>		Prevalence Index work	sneet:	N.A. Jaim I	D. //
7.				Iotal % Cover	<u>OT:</u>	Multiply	<u>By:</u>
	0	= Total Cove	er		18	x I =	18
Sapling/Shrub Stratum (Plot size: <u>15 ft</u>)		-		FACW species	45	× 2 = _	90
1.				FAC species	20	x 3 =	60
2.				FACU species	0	x 4 =	0
3.				UPL species	0	x 5 = _	0
4		<u> </u>		Column Totals	83	(A)	168 (B)
5		<u> </u>		Prevalence I	ndex = B/A =	2	
б				Hydrophytic Vegetatio	n Indicators:		
7				1- Rapid Test for	Hydrophytic \	/egetation	
/·		= Total Cove	ar	2 - Dominance Te	est is >50%		
Herb Stratum (Plot size: 5 ft)				3 - Prevalence Inc	dex is $\leq 3.0^1$		
1 Carey appertans	30	Voc		4 - Morphologica	l Adaptations	¹ (Provide	supporting
	20	Voc	ENC	data in Remarks or on	a separate sh	neet)	
2. Dhragmitas australis	15	No		Problematic Hyd	rophytic Vege	tation ¹ (Ex	plain)
J. Finagrinices australis A Tupba latifalia	10			¹ Indicators of hydric so	oil and wetlan	d hydrolo	gy must be
4. Typha latitolia		No		present, unless disturt	bed or proble	matic	
5. Typina angustinonia		No		Definitions of Vegetati	on Strata:		
		INU	UBL	Iree – Woody plants 3	in. (7.6 cm) oi	r more in (diameter at
/		<u> </u>		breast neight (DBH), re	egardiess of h	eight.	
8		<u> </u>		saping/snrub - wood	y plants less t	nan 3 in. L Mtall	лен апо
9		<u> </u>		Herb - All berbaceous	(non-woody)	nlants reg	ardless of
10				size and woody plants	(non-woody) (less than 3.2	8 ft tall	sal uless of
11				Woody vines – All woo	dy vines grea	ter than 3	28 ft in
12				height.	ay 1		201111
	83	= Total Cove	er		n Procont2		lo
Woody Vine Stratum (Plot size: <u>30 ft</u>)					In Fresent?	ies i	10
1							
2							
3							
4		<u> </u>					
	0	= Total Cove	er				
Remarks: (Include photo numbers here or on a separate	e sheet.)						
	,						

icites)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
) - 15	10YR 4/1	90	10YR 6/8	10	С	М	Silt Loam	
		·						
						·		· ·
		· —				·		
		· —						
e: C = C	Concentration, D =	Deplet	ion, RM = Reduce	d Mat	rix, MS =	Masked Sand	Grains. ² Lc	ocation: PL = Pore Lining, M = Matrix.
ric Soil	Indicators:		Debaselus D	. I				Indicators for Problematic Hydric Soils ³ :
Histoso Histic Er	i (A1) Dipedon (A2)		Polyvalue Be Thin Dark Si	elow S urface	surface (S (S9) (LRF	8) (LRR R, ML R R. MLRA 149	KA 149B) B)	2 cm Muck (A10) (LRR K, L, MLRA 149B)
Black Hi	istic (A3)		Loamy Mucl	ky Mir	neral (F1)	(LRR K, L)	-,	Coast Prairie Redox (A16) (LRR K, L, R)
Hydroge	en Sulfide (A4)		Loamy Gley	ed Ma	itrix (F2)			5 cm Mucky Pear of Pear (53) (LKR K, L, K)
Stratifie	d Layers (A5)		Depleted Ma	atrix (F3)			Polyvalue Below Surface (S8) (LRR K 1)
Deplete	d Below Dark Surfa	ice (A1	1)_✓ Redox Dark	Surfa	ce (F6)			Thin Dark Surface (S9) (I RR K. I.)
hick Da	ark Surface (A12)		Depleted Da	ark Su	rface (F7))		Iron-Manganese Masses (F12) (LRR K. L. R)
Sandy N	lucky Mineral (S1)		Redox Depr	essior	าร (F8)			Piedmont Floodplain Soils (F19) (MLRA 149B)
Sandy G	Gleyed Matrix (S4)							Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
								Red Parent Material (E21)
Sandy F	Redox (S5)							
Sandy F Strippe	Redox (S5) d Matrix (S6)							Very Shallow Dark Surface (TF12)
Sandy F Strippeo Dark Su	Redox (S5) d Matrix (S6) Irface (S7) (LRR R, M	ILRA 14	49B)					Very Shallow Dark Surface (TF12) Other (Explain in Remarks)
Sandy F Stripped Dark Su licators	Redox (S5) d Matrix (S6) Irface (S7) (LRR R, M of hydrophytic veg	ILRA 14 etatior	49B) n and wetland hyc	drolog	y must b	e present, unl	ess disturbed	Very Shallow Dark Surface (TF12) Other (Explain in Remarks) d or problematic.
Sandy F Stripped Dark Su licators trictive l	edox (S5) d Matrix (S6) rface (S7) (LRR R, N of hydrophytic veg L ayer (if observed):	ILRA 14	49B) and wetland hyc	drolog	y must b	e present, unl	ess disturbed	Very Shallow Dark Surface (TF12) Other (Explain in Remarks) d or problematic.
Sandy F Stripped Dark Su icators crictive l	edox (S5) d Matrix (S6) rface (S7) (LRR R, M <u>of hydrophytic veg</u> Layer (if observed): Type:	ILRA 14 etation	49B) a and wetland hyc None	drolog	y must b	e present, unl Hydric Soil P	ess disturbed resent?	Very Shallow Dark Surface (TF12) Other (Explain in Remarks) d or problematic. Yes _∠_ No
Sandy F Stripped Dark Su icators rictive l	edox (S5) d Matrix (S6) rface (S7) (LRR R, M of hydrophytic veg Layer (if observed): Type: Depth (inches):	ILRA 14	49B) a and wetland hyc None	drolog	y must bi	e present, unl	ess disturbed resent?	Very Shallow Dark Surface (TF12) Other (Explain in Remarks) d or problematic. Yes No
Sandy F Stripped Dark Su icators rictive I	edox (S5) d Matrix (S6) irface (S7) (LRR R, M of hydrophytic veg Layer (if observed): Type: Depth (inches):	ILRA 14 etatior	49B) and wetland hyd None	drolog -	y must b	e present, unl Hydric Soil P	ess disturbed resent?	Very Shallow Dark Surface (TF12) Other (Explain in Remarks) d or problematic. YesNo
Gandy F Stripped Dark Su Cators rictive I arks:	edox (S5) d Matrix (S6) rface (S7) (LRR R, N of hydrophytic veg Layer (if observed): Type: Depth (inches):	ILRA 14	49B) and wetland hyd None	drolog -	y must b	e present, unl Hydric Soil P	ess disturbed	Very Shallow Dark Surface (TF12) Other (Explain in Remarks) d or problematic. Yes _∠_ No
Sandy F Stripped Dark Su <u>cators</u> rictive I arks:	edox (S5) d Matrix (S6) rface (S7) (LRR R, N of hydrophytic veg L ayer (if observed): Type: Depth (inches):	ILRA 14 etation	49B) n and wetland hyd None	drolog -	y must b	e present, unl Hydric Soil P	ess disturbed	Very Shallow Dark Surface (TF12) Other (Explain in Remarks) d or problematic. YesNo
andy F atripped Dark Su cators rictive I arks:	edox (S5) d Matrix (S6) rface (S7) (LRR R, N of hydrophytic veg L ayer (if observed): Type: Depth (inches):	ILRA 14	49B) n and wetland hyc None	drolog -	y must b	e present, unl	ess disturbed	Very Shallow Dark Surface (TF12) Other (Explain in Remarks) d or problematic. YesNo
Gandy F Stripped Dark Su cators rictive f arks:	edox (S5) d Matrix (S6) rface (S7) (LRR R, N <u>of hydrophytic veg</u> L ayer (if observed): Type: Depth (inches):	ILRA 14	49B) n and wetland hyd None	4rolog 	y must bi	e present, unl	ess disturbed	Very Shallow Dark Surface (TF12) Other (Explain in Remarks) d or problematic. YesNo
andy F Stripped Dark Su <u>cators</u> rictive f arks:	edox (S5) d Matrix (S6) rface (S7) (LRR R, N <u>of hydrophytic veg</u> L ayer (if observed): Type: Depth (inches):	ILRA 14	49B) n and wetland hyd None	drolog -	y must b	e present, unl	ess disturbed	Very Shallow Dark Surface (TF12) Other (Explain in Remarks) d or problematic. YesNo
andy F Stripped Dark Su cators rictive l arks:	edox (S5) d Matrix (S6) rface (S7) (LRR R, N of hydrophytic veg L ayer (if observed): Type: Depth (inches):	ILRA 14	49B) n and wetland hyd None	drolog 	y must b	e present, unl	ess disturbed	Very Shallow Dark Surface (TF12) Other (Explain in Remarks) d or problematic. YesNo
Sandy F Stripped Dark Su icators rictive I	edox (S5) d Matrix (S6) rface (S7) (LRR R, N <u>of hydrophytic veg</u> L ayer (if observed): Type: Depth (inches):	ILRA 14	49B) n and wetland hyd None	drolog -	y must b	e present, unl	ess disturbed	Very Shallow Dark Surface (TF12) Other (Explain in Remarks) d or problematic. YesNo
Sandy F Stripped Dark Su icators trictive I	edox (S5) d Matrix (S6) rface (S7) (LRR R, N <u>of hydrophytic veg</u> L ayer (if observed): Type: Depth (inches):	ILRA 14	49B) n and wetland hyd None	drolog	y must b	e present, unl	ess disturbed	Very Shallow Dark Surface (TF12) Other (Explain in Remarks) d or problematic. YesNo
Sandy F Stripped Dark Su icators rictive I	edox (S5) d Matrix (S6) irface (S7) (LRR R, M of hydrophytic veg L ayer (if observed): Type: Depth (inches):	ILRA 14	49B) n and wetland hyd None	drolog -	y must b	e present, unl	ess disturbed	Very Shallow Dark Surface (TF12) Other (Explain in Remarks) d or problematic. YesNo
Sandy F Stripped Dark Su icators rictive I	edox (S5) d Matrix (S6) irface (S7) (LRR R, M of hydrophytic veg L ayer (if observed): Type: Depth (inches):	ILRA 14	49B) n and wetland hyd None	drolog	y must b	e present, unl	ess disturbed	Very Shallow Dark Surface (TF12) Other (Explain in Remarks) d or problematic. YesNo
Sandy F Stripped Dark Su icators irictive l	edox (S5) d Matrix (S6) irface (S7) (LRR R, M of hydrophytic veg Layer (if observed): Type: 	ILRA 14	49B) n and wetland hyd None	drolog	y must b	e present, unl	ess disturbed	Very Shallow Dark Surface (TF12) Other (Explain in Remarks) d or problematic. Yes _∠_ No
Sandy F Stripped Dark Su icators irictive I	edox (S5) d Matrix (S6) irface (S7) (LRR R, M of hydrophytic veg L ayer (if observed): Type: Depth (inches):	ILRA 14	49B) n and wetland hyd None	-	y must b	e present, unl	ess disturbed	Very Shallow Dark Surface (TF12) Other (Explain in Remarks) d or problematic. Yes _∠_ No
Sandy F Stripped Dark Su licators trictive I	edox (S5) d Matrix (S6) irface (S7) (LRR R, M of hydrophytic veg L ayer (if observed): Type: Depth (inches):	ILRA 14	49B) n and wetland hyd None	-	y must b	e present, unl	ess disturbed	Very Shallow Dark Surface (TF12) Other (Explain in Remarks) d or problematic. Yes _∠_ No
Sandy F Stripped Dark Su licators trictive I	edox (S5) d Matrix (S6) irface (S7) (LRR R, M of hydrophytic veg L ayer (if observed): Type: Depth (inches):	ILRA 14	49B) n and wetland hyd None	- -	y must b	e present, unl	ess disturbed	Very Shallow Dark Surface (TF12) Other (Explain in Remarks) d or problematic. YesNo
Sandy F Stripped Dark Su licators trictive l narks:	edox (S5) d Matrix (S6) irface (S7) (LRR R, N of hydrophytic veg L ayer (if observed): Type: Depth (inches):	ILRA 14	49B) n and wetland hyd None	drolog	y must b	e present, unl	ess disturbed	Very Shallow Dark Surface (TF12) Other (Explain in Remarks) d or problematic. YesNo
Sandy F Stripped Dark Su icators :rictive I harks:	edox (S5) d Matrix (S6) irface (S7) (LRR R, N of hydrophytic veg L ayer (if observed): Type: Depth (inches):		49B) n and wetland hyd None	drolog	y must b	e present, unl	ess disturbed	Very Shallow Dark Surface (TF12) Other (Explain in Remarks) d or problematic. Yes No
Sandy F Stripped Dark Su icators rictive I	edox (S5) d Matrix (S6) irface (S7) (LRR R, N of hydrophytic veg L ayer (if observed): Type: Depth (inches):		49B) n and wetland hyd None	drolog	y must b	e present, unl	ess disturbed	Very Shallow Dark Surface (TF12) Other (Explain in Remarks) d or problematic. YesNo

Vegetation Photos



Soil Photos

Photo of Sample Plot



Project/Site: High Rive	er	Ci	ty/County: Amst	erdam,			Sampling Date	2017-July-17
Applicant/Owner: N	lextEra				State:	New York	Sampling Point:	W-AJF-01; PUB-1
Investigator(s): Anth								
Landform (hillslope, te	rrace, etc.):	Swale	L	Local relief	(concave,	convex, none):	Concave	Slope (%): 0-1
Subregion (LRR or MLF	RA): LRR L			Lat:	42.903494	48 Long:	-74.1355129	Datum: WGS84
Soil Map Unit Name:	Appleton silt	loam, 3 to 8 perce	ent slopes (ApB)				NWI classifi	cation:
Are climatic/hydrologic	c conditions on	the site typical fo	or this time of yea	ır?	Yes 🖌	_ No (If n	o, explain in Rema	arks.)
Are Vegetation,	Soil,	or Hydrology	_ significantly dist	turbed?	Are "N	ormal Circums	stances" present?	Yes 🟒 No
Are Vegetation,	Soil,	or Hydrology	_ naturally proble	ematic?	(If nee	ded, explain aı	ny answers in Rem	arks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present?	Yes 🧹 No Yes 🖌 No	Is the Sampled Area within a Wetland?	Yes 🖌 No
Wetland Hydrology Present?	Yes _ 🗸 No	If yes, optional Wetland Site ID:	W-AJF-01
Remarks: (Explain alternative procedur	res here or in a separate rep	port)	
TRC covertype is PUB.			

Wetland Hydrology Indicators:						
Primary Indicators (minimum of or	<u>ne is required; check all t</u>	Secondary Indicators (minimum of two required)				
 ✓ Surface Water (A1) ✓ High Water Table (A2) ✓ Saturation (A3) Water Marks (B1) Sediment Deposits (B2) 	Water- Aquatio Marl D Hydrog Oxidize	Stained Leaves (B9) : Fauna (B13) eposits (B15) gen Sulfide Odor (C1) ed Rhizospheres on Living	Roots (C3)	Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8) Sectuation Visible on Action January (C0)		
 Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Ima Sparsely Vegetated Concave Su 	Presen Recent Thin M agery (B7) Other (rface (B8)	 Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1) Geomorphic Position (D2) Shallow Aquitard (D3) Microtopographic Relief (D4) (FAC Noutral Text (D5) 				
Field Observations:						
Surface Water Present?	Yes 🟒 No	Depth (inches):	12			
Water Table Present?	Yes 🟒 No	Depth (inches):	0	Wetland Hydrology Present? Yes No		
Saturation Present?	Yes 🟒 No	Depth (inches):	0			
(includes capillary fringe)						
Describe Recorded Data (stream g	auge, monitoring well, a	erial photos, previous insp	ections), if	available:		

Sampling Point: W-AJF-01; PUB-1

Tree Stratum (Plot size: <u>30 ft</u>)	Absolute	Dominant	Indicator	Dominance Test worksheet:	c That		
	% Cover	species	Status	Are OBL_FACW_or FAC	s mat	4	(A)
				Total Number of Dominant S	species		
2.				Across All Strata:	pecies	4	(B)
3.				Percent of Dominant Species	s That	100	(4 (D)
				Are OBL, FACW, or FAC:		100	(A/B)
S				Prevalence Index worksheet	:		
0				Total % Cover of:		Multiply I	<u>3y:</u>
/		- Total Cau		OBL species 8	8	x 1 =	88
Cauling (Church Church und (Diet singer 45.66))	0	= lotal Cov	er	FACW species 1	7	x 2 =	34
Sapling/Shrub Stratum (Plot size:15 ft)	-			FAC species ()	x 3 =	0
1. Salix nigra	5	Yes	OBL	FACU species ()	x 4 =	0
2.				UPL species ()	x 5 =	0
3				Column Totals 10)5	(A)	122 (B)
4				Prevalence Index =	= B/A =	1.2	
5.				Hydrophytic Vegetation India	cators:		
6.				1- Rapid Test for Hydro	phytic V	egetation	
7				2 - Dominance Test is >	50%	0	
	5	= Total Cov	er	3 - Prevalence Index is	≤ 3.0 ¹		
<u>Herb Stratum</u> (Plot size: <u>5 ft</u>)				4 - Morphological Adap	tations ¹	(Provide s	supporting
1. Typha angustifolia	25	Yes	OBL	data in Remarks or on a sep	arate sh	leet)	
2. Utricularia macrorhiza	20	Yes	OBL	Problematic Hydrophyt	tic Veget	tation ¹ (Ex	plain)
3. <u>Eleocharis palustris</u>	15	Yes	OBL	¹ Indicators of hydric soil and	wetlan	d hydrolog	gy must be
4. <i>Carex annectens</i>	12	No	FACW	present, unless disturbed or	probler	matic	
5. <u>Scirpus hattorianus</u>	10	No	OBL	Definitions of Vegetation Stra	ata:		
6. Juncus effusus	8	No	OBL	Tree – Woody plants 3 in. (7.	6 cm) or	more in d	liameter at
7. Eupatorium perfoliatum	5	No	FACW	breast height (DBH), regardle	ess of h	eight.	
8. <i>Brasenia schreberi</i>	5	No	OBL	Sapling/shrub – Woody plant	ts less tl	han 3 in. D	BH and
9				greater than or equal to 3.28	3 ft (1 m) tall.	
10				Herb – All herbaceous (non-\	woody)	plants, reg	ardless of
11				size, and woody plants less t	nan 3.2	8 TT TAII.	20 ft :
12				beight	es great	er than 3.	28 11 10
	100	= Total Cov	er			, , , , ,	
Woody Vine Stratum (Plot size: <u>30 ft</u>)				Hydrophytic Vegetation Pres	sent? Y	/es N	0
1							
2							
3							
4							
	0	= Total Cov	er				
Remarks: (Include photo numbers here or on a separa	ate sheet.)						

Sampling Point: W-AJF-01; PUB-1

(inches) Color (moist) % Type! Loc' Texture Remarks 0.14 2.5Y 6/1 80 7.5YR 6/8 20 C M Gravelly Sity Clay Image: Construction of the structure of the struc	Depth	Matrix	.o the t	Redo	k Feat	ures		commune a	bsence of indicator	5.)	
0 - 14 2.SY 6/1 30 7.SYR 6/8 20 C M Gravelly Sity Clay Image: Construction of the second se	(inches)	Color (moist)	%	Color (moist)	%	Type ¹	L oc²	Тех	dure	Remarks	
Image: Description of the second s	0 - 14	2.5Y 6/1	80	7.5YR 6/8	20	<u> </u>		Gravelly	v Silty Clay	Remarks	
ype: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. *Location: PL = Pore Lining, M = Matrix. ydric Soil Indicators: Indicators for Problematic Hydric Soils? Histosol (A1)			. <u></u>				<u> </u>				
ype: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. *Location: PL = Pore Lining, M = Matrix. wide: Soil Indicators: Indicators for Problematic Hydric Soils? Histic Epipedon (A2) Thin Dark Surface (S9) (LRR R, LI) Back Histic (A3) Loany Mucky Minerai (F1) (LRR K, L) Straffied Layers (A5) Z cm Muck (A10) (LRR K, L MLRA 149B) Straffied Layers (A5) Z bepleted Matrix (F2) Depleted Below Dark Surface (F1) Thin Dark Surface (F7) Thick Dark Surface (A11) Redox Dark Surface (F7) Thick Dark Surface (A11) Redox Depressions (F8) Sandy Mucky Minerai (F1) Iron Manganees Masses (F12) (LRR K, L) Sandy Rodx (S5) Redox Depressions (F8) Stripped Matrix (S6) Peleyted Matrix (S3) Dark Surface (S1) (LRR K, LI) Redox Depressions (F8) Straffied Layers Metrix (S4) Dark Surface (S5) Red Parent Material (F12) Straffied Matrix (S6) Peleyted Matrix (S4) Dark Surface (S7) (LRR R, LI 444A, 145, 1 Straffied Matrix (S6) Peleyted Matrix (S4) Dark Surface (S7) (LRR R, Mat 144B) Other (Explain In Remarks) Material (F21) Other (Explain In Remarks) Mater			·								
ype: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. *Location: PL = Pore Lining, M = Matrix. Indicators C = Depletion (A2)			·								
ype: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. *Location: PL = Pore Lining, M = Matrix. Indicators: Indicators for Problematic Hydric Soil Problematic Construction (A2) Thin Dark Surface (S3) (LRR R, MLRA 1498) _2 cm Muck (A10) (LRR K, L, MEA 1498) Histic Epipedon (A2) Thin Dark Surface (S9) (LRR R, MLRA 1498) _2 com Mucky Peat or Peroblematic Hydric Soil Problematic Hydric Soil Problematic Construction (A3)			·			<u> </u>					
ype: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. *Location: PL = Pore Lining, M = Matrix, Indicators Indicators for Problematic Hydric Soile? Histo Epipedon (A2) Thin Dark Surface (S9) (LRR R, MLRA 1499)			·			<u> </u>					
ype: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. *Location: PL = Pore Lining, M = Matrix. ydric Soil Indicators: Indicators for Problematic Hydric Solls? Histo Epipedon (A2) Thin Dark Surface (S1) (LRR R, MLRA 1498) _Coast Prairie Redox (A16) (LRR K, L, NR) Black Histic (X3) Loamy Gleyed Matrix (F2) _Dark Surface (S1) (LRR K, L) _S on Mucky Peat or Polyalue Below Surface (F6) Startified Layers (A5) Z Depleted Matrix (F2) _D ark Surface (S1) (LRR K, L) _S on Mucky Peat or Polyalue Below Surface (F7) Thick Dark Surface (A11) Redox Dark Surface (F7) _Thin Dark Surface (S1) (LRR K, L) _S ondy Redox (S5) Sandy Redox (S5)			· —		·						
ype: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. ?Location: PL = Pore Lining, M = Matrix. rdrc Soil Indicators Indicators for Problematic Hydric Soils*. Histosol (N1)			· —								
ype: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. *Location: PL = Pore Lining, M = Matrix. dric Soil Indicators: Histos Call Indicators: Histos Call Addition (A2) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) Stratified Layers (A5) Depleted Below Dark Surface (S6) LRR K, L) Depleted Below Dark Surface (A11) Depleted Dark Surface (F2) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (F3) Sandy Gleyed Matrix (F3) Sandy Gleyed Matrix (F3) Sandy Gleyed Matrix (F3) Sandy Gleyed Matrix (F3) Dark Surface (A12) Depleted Dark Surface (F7) Mesic Spodic (TA6) (MLRA 144A, 145, 1 Red Dark Surface (F7) Mesic Spodic (TA6) (MLRA 144A, 145, 1 Red Darert Material (F12) (MLRA Sandy Gleyed Matrix (F3) Sandy Redox (F5) Dark Surface (S7) (LRR K, L) Mesic Spodic (TA6) (MLRA 144A, 145, 1 Red Parent Material (F12) Dark Surface (S7) (LRR K, L) Mesic Spodic (TA6) (MLRA 144A, 145, 1 Red Parent Material (F12) Dark Surface (S7) (LRR K, L) Mesic Spodic (TA6) (MLRA 144A, 145, 1 Red Parent Material (F12) Dark Surface (S7) (LRR K, L) Mesic Spodic (TA6) (MLRA 144A, 145, 1 Red Parent Material (F12) Dark Surface (S7) (LRR K, MLRA 149B) Mesic Solid (TA6) (MLRA 144A, 145, 1 Red Parent Material (F12) Depth (inches): Type: None Hydric Soil Present? Yes _ No _			· —		·						
ype: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. ² Location: PL = Pore Lining, M = Matrix. dric Soil Indicators: Histocol (A1)Polyvalue Below Surface (S0) (LRR R, MLRA 149B) Histic Epipedon (A2)Thin Dark Surface (S0) (LRR R, MLRA 149B) Black Histic (A3)Loamy Mucky Mineral (F1) (LRR K, L)S cm Mucky Pater Peat (S3) (LRR K, L) Lydrogen Sulfide (A4)Loamy Gleyed Matrix (F2)Dark Surface (S9) (LRR K, L) Depleted Below Dark Surface (A11)Redox Dark Surface (F6)Thin Dark Surface (S9) (LRR K, L) Sandy Mucky Mineral (S1)Redox Depressions (F8) Sandy Gleyed Matrix (S4)Stripped Matrix (S5)Stripped Matrix (S5)Very Shallow Dark Surface (F7)Ner Matria (F2)Ner Matria (F2)Ner Matrix (S6)Ner Matrix			·								
ype: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. ² Location: PL = Pore Lining, M = Matrix. Indicators for Problematic Hydric Solis*: Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Indicators of hydrophytic vegetation and wetland hydrology must be present? Indicators of hydrophytic vegetation and wetland hydrology must be present? Indicators of hydrophytic Negetation and wetland hydrology must be present? Indicators of hydrophytic Wegetation and wetland hydrology must be present? Indicators of hydrophytic Wegetation and wetland hydrology must be present? Indicators of hydrophytic Wegetation and wetland hydrology must be present? Indicators of hydrophytic Wegetation and Wetland hydrology must be present? Indicators of hydrophytic Wegetation and Wetland hydrology must be present? Indicators of hydrophytic Wegetation And Wetland Hydrology Minera Wetland Hydrology Minera Wetland Hydrology Minera Wetland Hydrology Minera Wetland Hydrology			·								
ype: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. ²¹ Location: PL = Pore Lining, M = Matrix. ydric Soil Indicators: Histos Epipedon (A2) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) Stratified Layers (A5) C Depleted Matrix (F2) Sort Mucky Alloy (LRR K, L) Sort Mucky Peat or Peat (S3) (LRR K, L) Stratified Layers (A2) Sort Mucky Mineral (F1) Depleted Below Dark Surface (A11) Redox Dark Surface (F6) Sondy Mucky Mineral (S1) Sondy Mucky Mineral (S1) Sondy Mucky Mineral (S1) Depleted Dark Surface (A12) Sondy Redox (S5) Sort Muck (S5) Sort Matrix (S6) Depleted Sort (S5) Stripted Matrix (S4) Sondy Gleyed Matrix (S4) Sondy Gleyed Matrix (S4) Surface (S7) (LRR R, L) Medicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. stripted Matrix (S6) Muck (S0) Stripted Matrix (S6) Depletation and wetland hydrology must be present, unless disturbed or problematic. stripted Matrix (S6) Muck (S0) Stripted Matrix (S6) Muck (S0) Muck (S0) Sondy Mucky Mineral (S1) Muck (S0) Muck (S0) Stripted Matrix (S6) Muck (S0) Stripted Matrix (S6) Muck (S0) Stripted Matrix (S6) Muck (S0) Stripted Matrix (S6) Muck (S0) Muck (S0) Muck (S0) Stripted Matrix (S6) Muck (S0) Muck (S0) Much (S0) Muck (S0) Muck (S0) Muck (S0) Muck (S0) Muck (S0) Muck (S0) Muck (S0) Muck (S0)			· —								
June - Contention of the problematic for Problematic minute, if mi		ncentration D = [<u> </u>	on PM - Poduco	d Mat	riv MS -	Maskod Sa	nd Grains 21	ocation: PL - Pore I	ining M - Matrix	
Histosol (A) Polyvalue Below Surface (S8) (LRR R, MLRA 1498) Histic Epipedon (A2) Thin Dark Surface (S9) (LRR R, MLRA 1498) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L Hydrogen Suffade (A4) Loamy Gleyed Matrix (F2) Depleted Below Dark Surface (A11) Redox Dark Surface (F6) Thick Dark Surface (A12) Depleted Dark Surface (F7) Sandy Mucky Mineral (S1) Redox Depressions (F8) Sandy Gleyed Matrix (S4) Sandy Gleyed Matrix (S5) Dark Surface (S7) (LRR R, MLRA 1498) Other (Explain in Remarks) dicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. strictive Layer (if observed): Depth (inches): Depth (inches): marks:	ype. C - Cu	dicators:	Jepieu	on, Rivi – Reduce	u wat	112, 1013 -	IVIASKEU JA		Indicators for Pro	blomatic Hydric Saile3	
Histic Epigedon (A2) Thin Dark Surface (S9) (LRR K, ILRA 149B) Dark Surface (S9) (LRR K, ILRA 149B) Loamy Mucky Mineral (F1) (LRR K, L) Straffied Layers (A5)	Histocol (Δ1)		Polyalua P		urfaca (S	(1 DD D •			Diematic Hyunic Solis".	
	Histic Eni	pedon (A2)		Thin Dark S	urface	(S9) (I RR	R. MI RA 1	49B)	2 cm Muck (A	10) (LRR K, L, MLRA 149B)	
Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2)	Black Hist	ic (A3)		Loamy Muc	ky Mir	eral (F1)	(LRR K, L)	150)	Coast Prairie	Redox (A16) (LRR K, L, R)	
	_ _ Hydroger	Sulfide (A4)		Loamy Gley	ed Ma	trix (F2)	. , ,		5 cm Mucky F	(C7) (LRR K, L, R)	
	_ Stratified	Layers (A5)		_✓ Depleted M	atrix (F3)			Dark Surface	(S7) (LKK K, L)	
Thick Dark Surface (A12) Depleted Dark Surface (F7) Inno-Marganese Masses (F12) (LRR K,] Sandy Mucky Mineral (S1) Redox Depressions (F8) Piedmont Floodplain Soils (F19) (MLRA Sandy Redox (S5) Mesic Spodic (TA6) (MLRA 144A, 145, 1 Stripped Matrix (S6) Very Shallow Dark Surface (F12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) ndicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. estrictive Layer (if observed): 	_ Depleted	Below Dark Surfa	ice (A1	1) Redox Dark	Surfa	ce (F6)			Folyvalue Bei	face (SQ) (I PP K 1)	
	_ Thick Dar	k Surface (A12)		Depleted Da	ark Su	rface (F7))		Iron-Mangan	ese Masses (F12) (I RR K. L. R)	
	_ Sandy Mu	icky Mineral (S1)		Redox Depr	essior	ns (F8)			Piedmont Flo	odplain Soils (F19) (MLRA 149B	
Sandy Redox (S5)Red Parent Material (F21) Stripped Matrix (S6)Very Shallow Dark Surface (TF12)Other (Explain in Remarks) Other (Explain in Remarks) 	_ Sandy Gle	eyed Matrix (S4)							Mesic Spodic	(TA6) (MLRA 144A, 145, 149B)	
Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) ndicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. estrictive Layer (if observed): Depth (inches): Hydric Soil Present? Yes No emarks:	_ Sandy Re	dox (S5)							Red Parent M	aterial (F21)	
Dark Surface (\$7) (LRR R, MLRA 149B)Other (Explain in Remarks) ndicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. estrictive Layer (if observed): Type: None Hydric Soil Present? Yes No Depth (inches): emarks:	Stripped	Matrix (S6)							Very Shallow	Dark Surface (TF12)	
ndicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. estrictive Layer (if observed): Type: None Hydric Soil Present? Yes No Depth (inches): emarks:	_ Dark Surf	ace (S7) (LRR R, M	ILRA 14	19B)					Other (Explai	n in Remarks)	
estrictive Layer (if observed): Type: <u>None</u> Depth (inches): emarks: Yes <u>Ves</u> No <u></u>	ndicators of	f hydrophytic vege	etation	and wetland hyd	Irolog	y must be	e present, ι	ınless disturbe	ed or problematic.		
Type: <u>None</u> Depth (inches): emarks:	estrictive La	yer (if observed):		2		,			•		
emarks:	Т	ype:		None			Hydric So	il Present?		Yes 🟒 No	
emarks:	C	epth (inches):			-		-				
	emarks:										

Hydrology Photos



Soil Photos

Photo of Sample Plot

Project/Site: High River		C	ity/County: Ams	sterdam,				Sampling Date:	2017-July-17
Applicant/Owner: Ne	extEra				State:	New York		Sampling Point:	W-AJF-01; UPL-1
Investigator(s): Anthony Froonjian, AJW Section, Township, Range:									
Landform (hillslope, ter	race, etc.):	Till plain		Local relie	f (concave,	convex, no	ne):	Convex	Slope (%): 2-5
Subregion (LRR or MLRA	A): LRR L			Lat	42.903509	94 Lo	ong:	-74.1355061	Datum: WGS84
Soil Map Unit Name:	Appleton silt	loam, 3 to 8 perc	ent slopes (ApB)					NWI classifi	cation:
Are climatic/hydrologic	conditions on	the site typical fo	or this time of ye	ar?	Yes 🖌	_ No ((If no	o, explain in Rema	ırks.)
Are Vegetation,	Soil,	or Hydrology	_ significantly dis	sturbed?	Are "N	ormal Circi	ums	tances" present?	Yes 🟒 No
Are Vegetation,	Soil,	or Hydrology	_ naturally probl	lematic?	(If nee	ded, explai	n an	y answers in Rem	arks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes No 🟒										
Hydric Soil Present?	Yes No 🟒	Is the Sampled Area within a Wetland?	Yes No 🟒								
Wetland Hydrology Present?	Yes No _	lf yes, optional Wetland Site ID:									
Remarks: (Explain alternative procedures here or in a separate report)											
TRC covertype is UPL.											

Wetland Hydrology Indicators:				
Primary Indicators (minimum of on	<u>e is required; check all tl</u>	hat apply)	Secondary Indicators (minimum o	<u>f two required)</u>
Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2)	Water-5 Aquatic Marl De Hydrog Oxidize	Stained Leaves (B9) Fauna (B13) eposits (B15) en Sulfide Odor (C1) d Rhizospheres on Living Roots (C3)	 Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Ima 	agery (C9)
 Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Ima Sparsely Vegetated Concave Sur 	Presend Recent Thin Mu gery (B7) Other (I face (B8)	ce of Reduced Iron (C4) Iron Reduction in Tilled Soils (C6) uck Surface (C7) Explain in Remarks)	 Stunted or Stressed Plants (D1 Geomorphic Position (D2) Shallow Aquitard (D3) Microtopographic Relief (D4) FAC-Neutral Test (D5))
Field Observations:				
Surface Water Present?	Yes No 🟒	Depth (inches):		
Water Table Present?	Yes No 🟒	Depth (inches):	- Wetland Hydrology Present?	Yes No 🟒
Saturation Present?	Yes No 🟒	Depth (inches):	-	
(includes capillary fringe)			-	
Describe Recorded Data (stream ga	uge, monitoring well, ae	rial photos, previous inspections), if	available:	
Remarks:				

Sampling Point: W-AJF-01; UPL-1

Tree Stratum (Plot size: <u>30 ft</u>)	Absolute	Dominant	Indicator	Dominance Test works	sheet:		
	% Cover	species?	Status		species mat	0	(A)
1				Total Number of Domi	 nant Snecies		
2				Across All Strata:	nune species	2	(B)
3				Percent of Dominant S	Species That	0	(A (D)
4				Are OBL, FACW, or FAC	:	0	(A/B)
۶				 Prevalence Index work 	sheet:		
7				- <u>Total % Cover</u>	<u>r of:</u>	<u>Multiply</u>	By:
7		- Total Cov	or	 OBL species 	0	x 1 =	0
Contine (Church Stratum (Dist size) 15 ft)	0	_ 10tal Cov	er	FACW species	0	x 2 =	0
<u>Sapling/Shrub Stratum</u> (Plot Size: <u>15 π</u>)				FAC species	0	x 3 =	0
I				– FACU species	85	x 4 =	340
2.				– UPL species	0	x 5 =	0
3				– Column Totals	85	(A)	340 (B)
4				Prevalence I	ndex = B/A =	4	
5				- Hydrophytic Vegetatio	n Indicators:		·
6.				1- Rapid Test for	Hydrophytic V	/egetatior	า
7				2 - Dominance Te	est is > 50%	0	
	0	= Total Cov	er	3 - Prevalence In	dex is $\leq 3.0^1$		
<u>Herb Stratum</u> (Plot size: <u>5 ft</u>)				4 - Morphologica	I Adaptations ¹	¹ (Provide	supporting
1. <i>Trifolium repens</i>	40	Yes	FACU	- data in Remarks or on	a separate sh	neet)	11 0
2. Lotus corniculatus	20	Yes	FACU	Problematic Hyd	rophytic Vege	tation ¹ (E:	xplain)
3. <i>Plantago lanceolata</i>	15	No	FACU	- ¹ Indicators of hydric so	oil and wetlan	d hydrolo	gy must be
4. <i>Taraxacum officinale</i>	10	No	FACU	present, unless distur	oed or probler	matic	
5				_ Definitions of Vegetati	on Strata:		
6				Tree – Woody plants 3	in. (7.6 cm) or	r more in	diameter at
7				breast height (DBH), re	egardless of h	eight.	
8				Sapling/shrub - Wood	y plants less tl	han 3 in. I	DBH and
9.				greater than or equal	to 3.28 ft (1 m) tall.	
10				Herb – All herbaceous	(non-woody)	plants, re	gardless of
11.				size, and woody plants	s less than 3.2	8 ft tall.	
12.				Woody vines – All woo	dy vines great	ter than 3	.28 ft in
	85	= Total Cov	er	height.			
<u>Woody Vine Stratum</u> (Plot size: <u>30 ft</u>)		-		Hydrophytic Vegetation	on Present?	Yes N	No 🔽
1.							
2.				-			
3.				-			
4				-			
		= Total Cov	er	-			
				-			

Sampling Point: <u>W-AJF-01; UPL-1</u>

<u>nches)</u>	Color (moist) 10YR 5/4	<u>%</u> 100	Color (moist)	<u>%</u>	Type ¹	Loc ²	To Gravelly	exture / Sandy Loam	Remarks
0-4	10YR 5/4	100				_	Gravelly	/ Sandy Loam	
							-		
		·							
							-		· · · · · · · · · · · · · · · · · · ·
		<u> </u>							
						4			- M. Matuit
/pe: C = C	oncentration, D	= Depletior	n, RIVI = Reduced IVI	latrix,	, IVIS = IV	lasked	Sand Grains. ² LC	pocation: PL = Pore Lining	g, M = Matrix.
uric Soli li			Dolumeter Del		face (50			indicators for Probler	nauc Hydric Solls?:
_ HISTOSOI	(AI)		Polyvalue Below	N SUR	iace (58	b) (LRR H	(, MILKA 1498)	2 cm Muck (A10) (LRR K, L, MLRA 149B)
Black His	tic (A3)			Ainor	9) (LKK	R, IVILRA I DD K I	(149D))	Coast Prairie Redo	ox (A16) (LRR K, L, R)
Hvdroge	n Sulfide (A4)		Loamy Gleved I	Matri	x (F2)		,	5 cm Mucky Peat of	or Peat (S3) (LRR K, L, R)
Stratified	Lavers (A5)		Depleted Matri	x (F3))			Dark Surface (S7)	(LRR K, L)
_ _ Depletec	Below Dark Su	irface (A11)	Redox Dark Sur	rface	(F6)			Polyvalue Below S	Surface (S8) (LRR K, L)
_ Thick Da	rk Surface (A12)) .	Depleted Dark	Surfa	ce (F7)			Inin Dark Surface	(S9) (LKK K, L)
_ Sandy M	ucky Mineral (S	1)	Redox Depress	ions	(F8)			Iron-Manganese M	vidsses (FTZ) (LKK N, L, K)
_ Sandy G	leyed Matrix (S4	ł)						Pleamont Flooupi Mosic Spodic (TA6	(MIDA 1445) (WILKA 1495)
_ Sandy Re	edox (S5)							Mesic Spould (TAo	in (INILKA 144A, 145, 149D)
_ Stripped	Matrix (S6)							Very Shallow Dark	(Surface (TE12)
_ Dark Sur	face (S7) (LRR R	, MLRA 149	В)					Other (Explain in F	Remarks)
ndicators (fbydropbyticy	agatation a	nd watland budral		ouct ho	nrocon	uplace disturba	d or problematic	,
	aver (if observe			ogy n	nust be	presen	, unless disturbed		
-30 ICUVE L	ayer (ii observe	Dackod gr	avelly fill for dam			Hydrid	Soil Present?		Vec No (
עי עם	pe.	i acked gi		-		ingun	. Son mesent:		
marke	eptir (inches).		4						
marks:									

Vegetation Photos



Soil Photos

Photo of Sample Plot

Project/Site: High Rive	r	C	ity/County: Amst	erdam,			Sampling Date	2017-July-17
Applicant/Owner: N	extEra				State:	New York	Sampling Point:	W-AJF-01; UPL-2
Investigator(s): Anth	ony Froonjian	AJW		Sect	ion, Towns	hip, Range:		
Landform (hillslope, ter	rrace, etc.):	Hillslope	I	_ocal relief	(concave,	convex, none):	Convex	Slope (%): 5-10
Subregion (LRR or MLR	A): LRR L			Lat:	42.903511	Long:	-74.1361747	Datum: WGS84
Soil Map Unit Name:	Appleton silt	loam, 3 to 8 perc	ent slopes (ApB)				NWI classifi	cation:
Are climatic/hydrologic	conditions or	the site typical fo	or this time of yea	r?	Yes 🟒	_No (If n	o, explain in Rema	arks.)
Are Vegetation,	Soil,	or Hydrology	_ significantly dist	urbed?	Are "N	ormal Circums	stances" present?	Yes 🟒 No
Are Vegetation,	Soil,	or Hydrology	_ naturally proble	matic?	(If nee	ded, explain ar	ny answers in Rem	arks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes No 🟒		
Hydric Soil Present?	Yes No 🟒	Is the Sampled Area within a Wetland?	Yes No 🟒
Wetland Hydrology Present?	Yes No _	lf yes, optional Wetland Site ID:	
Remarks: (Explain alternative procedures her	e or in a separate report		
TRC covertype is UPL.			

Wetland Hydrology Indicators:				
Primary Indicators (minimum of on	e is required; check all that	apply)	Secondary Indicators (minimum of	<u>f two required)</u>
 Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) 	Water-Stai Aquatic Fa Marl Depo Hydrogen Oxidized R	ned Leaves (B9) una (B13) sits (B15) Sulfide Odor (C1) hizospheres on Living Roots (C3)	 Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Ima 	agery (C9)
 Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Ima Sparsely Vegetated Concave Sur 	Presence o Recent Iro Thin Muck gery (B7) Other (Exp rface (B8)	of Reduced Iron (C4) n Reduction in Tilled Soils (C6) Surface (C7) lain in Remarks)	 Stunted or Stressed Plants (D1) Geomorphic Position (D2) Shallow Aquitard (D3) Microtopographic Relief (D4) FAC-Neutral Test (D5))
Field Observations:				
Surface Water Present?	Yes No 🟒	Depth (inches):		
Water Table Present?	Yes No 🟒	Depth (inches):	Wetland Hydrology Present?	Yes No 🟒
Saturation Present?	Yes No 🟒	Depth (inches):		
(includes capillary fringe)			-	
Describe Recorded Data (stream ga	auge, monitoring well, aeria	l photos, previous inspections), if a	available:	

Sampling Point: W-AJF-01; UPL-2

Tree Stratum (Plot size: <u>30 ft</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test works	s heet: Species That		
1				Are OBL, FACW, or FAC	:	1	(A)
·				Total Number of Domi	nant Species		
2				Across All Strata:	·	3	(B)
4.				Percent of Dominant S	pecies That	33.3	(A/B)
5				- Brovalance Index work	 vchoot:		
6.				Tetal % Cover	sneet.	Multiply	D. <i>a</i>
7.					<u> </u>	<u>wuupy</u>	<u>ру.</u> О
	0	= Total Cov	er	EACW species	0	×1- ×2-	0
Sapling/Shrub Stratum (Plot size: <u>15 ft</u>)		-		FACW species	20	x 2	0
1.				FAC species	20	× 3 = _	60
2.				- FACU species	/0	x 4 =	280
3.				- UPL species	0	x 5 =	0
4.				– Column Totals	90	(A)	340 (B)
5				Prevalence I	ndex = B/A =	3.8	
5				 Hydrophytic Vegetatio 	n Indicators:		
7				1- Rapid Test for	Hydrophytic V	egetation/	
/		- Total Cov	o.r.	– 2 - Dominance Te	est is > 50%		
Line Charter (Distring 5.6	0		er	3 - Prevalence In	dex is $\leq 3.0^1$		
<u>Herb Stratum</u> (Plot size: <u>5 π</u>)	20		FACU	4 - Morphologica	l Adaptations ¹	(Provide	supporting
		res	FACU	– data in Remarks or on	a separate sh	neet)	
2. Phleum pratense	25	Yes	FACU	Problematic Hyd	rophytic Vege	tation ¹ (Ex	(plain)
3. Juncus tenuis	20	Yes	FAC	- ¹ Indicators of hydric so	oil and wetlan	d hydrolog	gy must be
4. <u>Cirsium arvense</u>	15	No	FACU	present, unless distur	ped or probler	matic	
5				Definitions of Vegetati	on Strata:		
6				Tree – Woody plants 3	in. (7.6 cm) or	r more in o	diameter at
7				breast height (DBH), re	egardless of h	eight.	
8				Sapling/shrub - Wood	y plants less tl	han 3 in. D	OBH and
9.				greater than or equal	to 3.28 ft (1 m) tall.	
10.				Herb – All herbaceous	(non-woody)	plants, reg	gardless of
11.				size, and woody plants	less than 3.2	8 ft tall.	
12.				Woody vines – All woo	dy vines great	ter than 3.	.28 ft in
	90	= Total Cov	er	height.			
Woody Vine Stratum (Plot size: 30 ft)				Hydrophytic Vegetation	on Present?	/es N	lo/_
1							
יי <u></u>				-			
2.				-			
з. 				-			
4.				-			
	0	= Total Cov	er				

0-6 10YR 3/2 100	0 - 6 10YR 3/2 100	0 - 6 10YR 3/2 100	inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture		Remarks
5-16 10YR 4/2 100	6 - 16 10YR 4/2 100 Silt Loam 9 9 Silt Loam Silt Loam 9 Silt Loam Silt Loam<	5-16 10YR 4/2 100	0 - 6	10YR 3/2	100		_			Silt Loam		
pe: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. ?Location: PL = Pore Lining, M = Matrix. pe: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. ?Location: PL = Pore Lining, M = Matrix. Indicators: Indicators for Problematic Hydric Soils?: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, MLRA 149B) Histosol (A2) Thin Dark Surface (S9) (LRR K, MLRA 149B) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F2) Stratified Layers (A5) Depleted Matrix (F2) Stratified Layers (A5) Depleted Matrix (F2) Sandy Mucky Mineral (S1) Redox Depressions (F8) Sandy Gleyed Matrix (S4) Depleted Dark Surface (F7) Sandy Gleyed Matrix (S4) Mesic Spodic (TA6) (MLRA 144A, 145, 149E) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) West Spodic (TA6) (MLRA 144A, 145, 149E) Matrix (S6) West Spodic (TA6) (MLRA 144B) Dark Surface (S7) (LRR R, MLRA 149B) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 144B) West Spodic (TA6) (MLRA 144A, 145, 149E) Stripped Matrix (S6) West Spodic (TA6) (MLRA 144A, 145, 149E) <t< td=""><td>ype: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. ?Location: PL = Pore Lining, M = Matrix. ype: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. ?Location: PL = Pore Lining, M = Matrix. itiosol (A1) Polyvalue Below Surface (S9) (LRR R, MLRA 1498) </td><td>mining mining mining</td><td>6 - 16</td><td>10YR 4/2</td><td>100</td><td></td><td>_</td><td></td><td></td><td>Silt Loam</td><td></td><td></td></t<>	ype: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. ?Location: PL = Pore Lining, M = Matrix. ype: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. ?Location: PL = Pore Lining, M = Matrix. itiosol (A1) Polyvalue Below Surface (S9) (LRR R, MLRA 1498)	mining	6 - 16	10YR 4/2	100		_			Silt Loam		
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Thick Dark Surface (A12)	Thick Dark Surface (A12)	Thick Dark Surface (A12)	Deplete	ed Below Dark Surfa	ice (A11)	Redox Dark S	urfac	ce (F6)			Thin Dark S	Surface (S9) (LRR K. L)
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Dark Surface (S7) (LRR R, MLRA 149B)			_ Thick D _ Sandy N _ Sandy (Sandy F	ark Surface (A12) Mucky Mineral (S1) Gleyed Matrix (S4) Redox (S5)		Depleted Dar Redox Depre	k Suı ssion	tace (F7) s (F8)			Iron-Manga Piedmont F Mesic Spoo	anese Masses (F12) (LRR K, L, R) Floodplain Soils (F19) (MLRA 149E lic (TA6) (MLRA 144A, 145, 149B)
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Vegetation Photos



Soil Photos

Photo of Sample Plot

Project/Site: High River	City/County: Amsterdam,		Sampling Date: 201	7-July-17						
Applicant/Owner: NextEra		State: New York	Sampling Point: W-AJ	F-02; PEM-1						
Investigator(s): Anthony Froonjian, AJW	Investigator(s): Anthony Froonjian, AJW Section, Township, Range:									
Landform (hillslope, terrace, etc.): To	De Local re	lief (concave, convex, none):	Concave	Slope (%): 0-1						
Subregion (LRR or MLRA): LRR L	L	.at: 42.9053142 Long:	-74.1328644	Datum: WGS84						
Soil Map Unit Name: Wassaic silt loam,	, 15 to 25 percent slopes (WaB)		NWI classification	n:						
Are climatic/hydrologic conditions on the	site typical for this time of year?	Yes 🟒 No (If n	o, explain in Remarks.)							
Are Vegetation, Soil, or Hy	ydrology significantly disturbed?	Are "Normal Circums	tances" present?	Yes 🟒 No						
Are Vegetation, Soil, or Hy	ydrology naturally problematic?	(If needed, explain ar	ny answers in Remarks.)						

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes 🟒 No	ļ	
Hydric Soil Present?	Yes 🟒 No	Is the Sampled Area within a Wetland?	Yes 🯒 No _
Wetland Hydrology Present?	Yes 🟒 No	If yes, optional Wetland Site ID:	W-AJF-02
Remarks: (Explain alternative procedur	es here or in a separate repo	prt)	
TRC covertype is PEM.			

Wetland Hydrology Indicators:		
Primary Indicators (minimum of or	ne is required; check all that apply)	Secondary Indicators (minimum of two required)
 Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) 	Water-Stained Leaves (B9) Aquatic Fauna (B13) Marl Deposits (B15) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Roots (C3)	 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)
 Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Ima Sparsely Vegetated Concave Su 	 Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Thin Muck Surface (C7) Other (Explain in Remarks) 	
Field Observations:		
Surface Water Present?	Yes No Depth (inches):	
Water Table Present?	Yes No Depth (inches):	─ Wetland Hydrology Present? Yes No
Saturation Present?	Yes 🖌 No Depth (inches): 8	_
(includes capillary fringe)		-
Describe Recorded Data (stream g	auge, monitoring well, aerial photos, previous inspections), if	f available:

Sampling Point: W-AJF-02; PEM-1

Tree Stratum (Plot size: <u>30 ft</u>)	Absolute	Dominant	Indicator	Dominance Test works	heet:		
	% Cover	species	Status	Are OBL_EACW_or FAC		4	(A)
1				Total Number of Domi	nant Species		
2.				Across All Strata:		5	(B)
				Percent of Dominant S	pecies That	80	(A /D)
4				Are OBL, FACW, or FAC	:		(A/B)
6				 Prevalence Index work 	sheet:		
7				- <u>Total % Cover</u>	of:	Multiply	<u>By:</u>
7		- Total Co		- OBL species	5	x 1 =	5
Sapling/Shruh Stratum (Blot cize: 15 ft)	0	- 10tai COV		FACW species	70	x 2 =	140
<u>Sapiing/Shrub Stratum</u> (Plot Size: <u>15 it</u>)	F	Voc		FAC species	20	x 3 =	60
1. Cornus antonium	<u>5</u>	Vec		FACU species	25	x 4 =	100
		res	FACW	UPL species	0	x 5 =	0
3.				Column Totals	120	(A)	305 (B)
4.				Prevalence li	ndex = B/A =	2.5	
5.				Hydrophytic Vegetatio	n Indicators:		
6				1- Rapid Test for	Hydrophytic V	/egetation	
7				2 - Dominance Te	st is >50%		
	10	= Total Cov	/er	3 - Prevalence Inc	dex is $\leq 3.0^1$		
<u>Herb Stratum</u> (Plot size: <u>5 ft</u>)				4 - Morphologica	Adaptations	¹ (Provide	supporting
1. Juncus dudleyi	30	Yes	FACW	data in Remarks or on	a separate sh	neet)	
2. Solidago canadensis	25	Yes	FACU	Problematic Hydi	ophytic Vege	tation ¹ (Ex	plain)
3. <u>Carex annectens</u>	20	Yes	FACW	¹ Indicators of hydric so	il and wetlan	d hydrolog	gy must be
4. Euthamia graminifolia	15	No	FAC	present, unless disturb	ed or probler	matic	
5. <u>Carex granularis</u>	10	No	FACW	Definitions of Vegetation	on Strata:		
6. <i>Scirpus hattorianus</i>	5	No	OBL	Tree – Woody plants 3	in. (7.6 cm) or	r more in o	liameter at
7. Equisetum arvense	5	No	FAC	breast height (DBH), re	gardless of h	eight.	
8				Sapling/shrub - Woody	/ plants less t	han 3 in. D	BH and
9				greater than or equal t	o 3.28 ft (1 m) tall.	
10				Herb – All herbaceous	(non-woody)	plants, reg	ardless of
11				size, and woody plants	less than 3.2	8 ft tall.	20.6.1
12				Woody vines – All woo	dy vines great	ter than 3.	28 ft in
	110	= Total Cov	/er	neight.			
<u>Woody Vine Stratum</u> (Plot size: <u>30 ft</u>)				Hydrophytic Vegetatic	on Present?	res 🟒 N	0
1							
2.							
3.							
4.				-			
	0	= Total Co	/er	-			
Remarks: (Include photo numbers here or on a se	eparate sheet.)						

07 10YR 2/1 100	0 - 7 10YR 2/1 100 7 - 16 10YR 5/2 90 7.5YR 6/6 1	Silt Loam 10 Silt Loam 10 Silt Loam 110 Silt Loam 110 Silt Loam 110 Silt Loam 110 Silt Loam 111 S
716 10YR 5/2 90 7.5YR 6/6 10 Silt Loam Silt Loam Silt Loam Silt Loam Silt Loam Silt Loam Silt Loam Silt Loam Silt Loam Silt Loam Silt Loam Silt Loam Silt Loam Silt Loam Silt Loam Silt Loam Silt Loam Silt Loam Silt Loam Silt Loam Silt Loam Silt Loam Silt Loam Silt Loam Silt Loam Silt Loam Silt Loam Silt Loam Silt Loam Silt Loam Silt Loam Silt Loam Silt Loam Silt Loam Silt Loam Silt Loam Silt Loam Silt Loam Silt Loam Silt Loam Silt Loam Silt Loam Silt Loam Silt Loam Yee: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. *Location: PL = Pore Lining, M = Matrix. Ydric Soil Indicators: Indicators: Indicators: Histosoi (A1) Polyvalue Below Surface (S9) (LRR R, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, MLRA 149B) Stratified Layers (A5) Depleted Matrix (F2)	7 - 16 10YR 5/2 90 7.5YR 6/6 1	10 Silt Loam Image: Silt Loam Silt Loam </th
Image: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. ² Location: PL = Pore Lining, M = Matrix. Indicators: Indicators for Problematic Hydric Soils*: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, MLRA 149B) 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histosol (A1) Polyvalue Below Surface (S9) (LRR R, MLRA 149B) 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histosol (A1) Domy Mucky Mineral (F1) (LRR K, L)	//pe: C = Concentration, D = Depletion, RM = Reduced M dric Soil Indicators: Histosol (A1) Polyvalue Below Histic Epipedon (A2) Thin Dark Surfa Black Histic (A3) Loamy Mucky M Hydrogen Sulfide (A4) Loamy Gleyed M Stratified Layers (A5) Depleted Matrix Depleted Below Dark Surface (A11) Redox Dark Sur Thick Dark Surface (A12) Depleted Dark Sur Sandy Mucky Mineral (S1) Redox Depressi	Matrix, MS = Masked Sand Grains. ² Location: PL = Pore Lining, M = Matrix. Indicators for Problematic Hydric Soils ³ : ow Surface (S8) (LRR R, MLRA 149B) face (S9) (LRR R, MLRA 149B) Mineral (F1) (LRR K, L) Matrix (F2) rix (F3) urface (F6) k Surface (F7) isions (F8)
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pe: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. ² Location: PL = Pore Lining, M = Matrix. Iric Soil Indicators: Indicators for Problematic Hydric Soils ³ : Histosol (A1) Polyvalue Below Surface (S8) (LRR R, MLRA 149B) Histic Epipedon (A2) Thin Dark Surface (S9) (LRR K, MLRA 149B) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Stratified Layers (A5) Depleted Matrix (F3) Depleted Below Dark Surface (A11) Redox Dark Surface (F6) Thic Dark Surface (A12) Depleted Dark Surface (F7) Sandy Mucky Mineral (S1) Redox Depressions (F8) Sandy Redox (S5) Depleted Dark Surface (F7) Stripped Matrix (S6) Redox Depressions (F8) Dark Surface (S7) (LRR R, MLRA 149B)	pe: C = Concentration, D = Depletion, RM = Reduced M dric Soil Indicators: Histosol (A1) Polyvalue Below Histic Epipedon (A2) Thin Dark Surfa Black Histic (A3) Loamy Mucky M Hydrogen Sulfide (A4) Loamy Gleyed M Stratified Layers (A5) Depleted Matrix Depleted Below Dark Surface (A11) Redox Dark Sur Thick Dark Surface (A12) Depleted Dark S Sandy Mucky Mineral (S1) Redox Depressi	Matrix, MS = Masked Sand Grains. ² Location: PL = Pore Lining, M = Matrix. Indicators for Problematic Hydric Soils ³ : pw Surface (S8) (LRR R, MLRA 149B) face (S9) (LRR R, MLRA 149B) Mineral (F1) (LRR K, L) Matrix (F2) rix (F3) urface (F6) k Surface (F7) isions (F8)
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pe: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. ²Location: PL = Pore Lining, M = Matrix. iric Soil Indicators: Indicators for Problematic Hydric Soils ³ : Histosol (A1) Polyvalue Below Surface (S8) (LRR R, MLRA 149B) 2 cm Muck (A10) (LRR K, L, MLRA 149B) Black Histic (A3)	pe: C = Concentration, D = Depletion, RM = Reduced M dric Soil Indicators: Histosol (A1) Polyvalue Below Histic Epipedon (A2) Thin Dark Surfa Black Histic (A3) Loamy Mucky M Hydrogen Sulfide (A4) Loamy Gleyed N Stratified Layers (A5) Depleted Matrix Depleted Below Dark Surface (A11) Redox Dark Sur Thick Dark Surface (A12) Depleted Dark S Sandy Mucky Mineral (S1) Redox Depressi	Matrix, MS = Masked Sand Grains. ² Location: PL = Pore Lining, M = Matrix. Indicators for Problematic Hydric Soils ³ : Dow Surface (S8) (LRR R, MLRA 149B) face (S9) (LRR R, MLRA 149B) Mineral (F1) (LRR K, L) Matrix (F2) rix (F3) urface (F6) K Surface (F7) isions (F8)
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Jack C = Contentration, D = Depletion, NM = Reduced Matrix, MS = Masked Sand Grains. * Eccaton, PL = Pole Linning, M = Matrix. Hric Soil Indicators: Indicators for Problematic Hydric Soils ³ : Histosol (A1) Polyvalue Below Surface (S8) (LRR R, MLRA 149B) Histosol (A2) Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Stratified Layers (A5) Depleted Matrix (F3) Depleted Below Dark Surface (A11) Redox Dark Surface (F6) Thick Dark Surface (A12) Depleted Dark Surface (F7) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Sandy Redox (S5) Redox Depressions (F8) Stripped Matrix (S6)	Jric Soil Indicators: Histosol (A1) Polyvalue Below Histic Epipedon (A2) Thin Dark Surfa Black Histic (A3) Loamy Mucky M Hydrogen Sulfide (A4) Depleted Matrix Depleted Below Dark Surface (A11) Redox Dark Sur Thick Dark Surface (A12) Completed Dark Surface (S1) Depleted Dark S Sandy Mucky Mineral (S1) Redox Depressi	Matrix, M3 – Masked Sand Grains. -Location, PL = Pore Lining, M – Matrix. Indicators for Problematic Hydric Soils ³ : pw Surface (S8) (LRR R, MLRA 149B) face (S9) (LRR R, MLRA 149B) Mineral (F1) (LRR K, L) Matrix (F2) rix (F3) urface (F6) k Surface (F7) signos (F8)
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John Harting Layers (K3)	Depleted Matrix Depleted Below Dark Surface (A11) Redox Dark Surface (A12) Depleted Dark Surface (A12) Sandy Mucky Mineral (S1)	Lorente de la construcción
Thick Dark Surface (A12) Depleted Dark Surface (F7) Thin Dark Surface (S9) (LRR K, L) Sandy Mucky Mineral (S1) Redox Depressions (F8) Iron-Manganese Masses (F12) (LRR K, L, R Sandy Gleyed Matrix (S4) Piedmont Floodplain Soils (F19) (MLRA 144, 145, 1498) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Red Parent Material (F21) Dark Surface (S7) (LRR R, MLRA 149B) Very Shallow Dark Surface (TF12) dicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Other (Explain in Remarks) strictive Layer (if observed): Type: None Type: None Hydric Soil Present? Yes _/_ No	Thick Dark Surface (A12) Depleted Dark S Sandy Mucky Mineral (S1) Redox Depressi	k Surface (F7) Thin Dark Surface (S9) (LRR K, L) (sions (F8) Iron-Manganese Masses (F12) (LRR K, L)
Sandy Mucky Mineral (S1)	Sandy Mucky Mineral (S1) Redox Depressi	Iron-Manganese Masses (F12) (LRR K, I
Sandy Gleyed Matrix (S4)		
Sandy Gleyed Matrix (S4)	Sandy Gleved Matrix (SA)	Piedmont Floodplain Soils (F19) (MLRA
	Sandy Bodox (S5)	Mesic Spodic (TA6) (MLRA 144A, 145, 1
	_ Salidy (Edux (SS)	Red Parent Material (F21)
	_ Stripped Matrix (SO)	Very Shallow Dark Surface (TF12)
ndicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. estrictive Layer (if observed): Type:None Hydric Soil Present? YesNo	_ Dark Surface (S7) (LKK K, MLKA 1496)	Other (Explain in Remarks)
strictive Layer (if observed): Type:None Hydric Soil Present? Yes No	dicators of hydrophytic vegetation and wetland hydrolo	ology must be present, unless disturbed or problematic.
Type:None Hydric soil Present? Yes _ Vo	strictive Layer (if observed):	Lindeia Call Descardo - Marco Colla
	Type: None None	Hydric Soil Present? Yes No
Depth (inches):	Depth (inches):	



Soil Photos

Photo of Sample Plot



Project/Site: High Rive	er		City/County: Ams	sterdam,			Sampling Date	: 2017-July-17
Applicant/Owner: N	extEra				State:	New York	Sampling Point:	W-AJF-02; PFO-2
Investigator(s): Anth	ony Froonjian,	AJW		Sec	tion, Towns	ship, Range:		
Landform (hillslope, te	rrace, etc.):	Depression		Local relie	f (concave,	convex, none):	Concave	Slope (%): 0-1
Subregion (LRR or MLR	RA): LRR L			Lat	42.90495	7 Long:	-74.1325653	Datum: WGS84
Soil Map Unit Name:	Wassaic silt lo	oam, 3 to 8 perce	ent slopes (WaB)				NWI classifi	cation:
Are climatic/hydrologic	conditions on	the site typical f	or this time of ye	ear?	Yes 🖌	_ No (If n	o, explain in Rema	arks.)
Are Vegetation,	Soil,	or Hydrology	significantly di	sturbed?	Are "N	ormal Circums	tances" present?	Yes 🟒 No
Are Vegetation,	Soil,	or Hydrology	_ naturally prob	lematic?	(If nee	ded, explain ar	ny answers in Rem	iarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes 🟒 No		
Hydric Soil Present?	Yes 🟒 No	Is the Sampled Area within a Wetland?	Yes 🟒 No
Wetland Hydrology Present?	Yes 🟒 No	If yes, optional Wetland Site ID:	W-AJF-02
Remarks: (Explain alternative procedur	es here or in a separate rep	port)	
TRC covertype is PEO			

Wetland Hydrology Indicators:				
Primary Indicators (minimum of or	e is required; check a	all that apply)		Secondary Indicators (minimum of two required)
 Surface Water (A1) High Water Table (A2) ✓ Saturation (A3) ✓ Water Marks (B1) Sediment Deposits (B2) 	Wat Aqu Mar Hyd Oxio	er-Stained Leaves (B9) latic Fauna (B13) 1 Deposits (B15) lrogen Sulfide Odor (C1) dized Rhizospheres on Living F	Roots (C3)	 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)
 Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Ima Sparsely Vegetated Concave Su 	Pres Rec Thir agery (B7) Oth rface (B8)	sence of Reduced Iron (C4) ent Iron Reduction in Tilled So n Muck Surface (C7) er (Explain in Remarks)	oils (C6)	 Stunted or Stressed Plants (D1) Geomorphic Position (D2) Shallow Aquitard (D3) Microtopographic Relief (D4) FAC-Neutral Test (D5)
Field Observations:				
Surface Water Present?	Yes No 🟒	Depth (inches):		
Water Table Present?	Yes No 🟒	Depth (inches):		- Wetland Hydrology Present? Yes _∠_ No
Saturation Present?	Yes 🟒 No	Depth (inches):	8	-
(includes capillary fringe)				
Describe Recorded Data (stream g	auge, monitoring wel	l, aerial photos, previous insp	ections), if	available:

Sampling Point: W-AJF-02; PFO-2

Tree Stratum (Plot size: <u>30 ft</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Specie	es That	_	
1. Populus deltoides	55	Yes	FAC	Are OBL, FACW, or FAC:		/	(A)
2. Salix alba		Yes	FACW	Total Number of Dominant	Species	7	(P)
3.				Across All Strata:		/	(D)
4				 Percent of Dominant Specie 	es That	100	(A/B)
5.				Are OBL, FACW, or FAC:			(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
6.				 Prevalence Index worksheet 	t:		
7.				- <u>Total % Cover of:</u>		<u>Multiply</u>	<u>By:</u>
		= Total Cov	er	– OBL species <u> </u>	0	x 1 =	0
Sanling/Shrub Stratum (Plot size: 15 ft)		-	C1	FACW species	90	x 2 =	180
1 Corpus amomum	20	Vec	FACW	FAC species	60	x 3 =	180
2 Salix hehbiana	5	Voc	FACW	- FACU species	0	x 4 =	0
3		103	TACW	- UPL species	0	x 5 =	0
				- Column Totals 1	50	(A)	360 (B)
4				Prevalence Index	= B/A =	2.4	
5.				- Hydrophytic Vegetation Indi	icators:		
6				1- Rapid Test for Hydro	ophytic V	egetatior	1
<i>.</i>				2 - Dominance Test is >	>50%	-	
	25	= lotal Cov	er	3 - Prevalence Index is	≤ 3.0 ¹		
<u>Herb Stratum</u> (Plot size: <u>5 ft</u>)				🟒 4 - Morphological Adap	ptations ¹	(Provide	supporting
1. Onoclea sensibilis	20	Yes	FACW	– data in Remarks or on a sep	arate sh	leet)	
2. <i>Phalaris arundinacea</i>	10	Yes	FACW	Problematic Hydrophy	tic Vege	tation ¹ (Ex	(plain)
3. <i>Solidago gigantea</i>	5	No	FACW	¹ Indicators of hydric soil and	d wetlan	d hydrolo	gy must be
4				_ present, unless disturbed or	r probler	matic	
5				Definitions of Vegetation Str	rata:		
6.				Tree – Woody plants 3 in. (7.	.6 cm) or	more in	diameter at
7				breast height (DBH), regardl	less of h	eight.	
8				Sapling/shrub – Woody plan	nts less tl	han 3 in. I	OBH and
9				greater than or equal to 3.28	8 ft (1 m) tall.	
10				Herb – All herbaceous (non-	woody)	plants, re	gardless of
11				size, and woody plants less	than 3.2	8 ft tall.	
12				Woody vines – All woody vin	nes great	er than 3	.28 ft in
	35	= Total Cov	er	neight.			
Woody Vine Stratum (Plot size: <u>30 ft</u>)		-		Hydrophytic Vegetation Pre	esent? \	/es 🟒 N	lo
1. <i>Vitis riparia</i>	5	Yes	FAC				
2.				=			
3.				-			
4.				-			
	5	= Total Cov	er	-			
		-	-				
Remarks: (Include photo numbers here or on a sepa	rate sheet.)						

Sampling Point: W-AJF-02; PFO-2

Upper Matrix Netox relatives (nches) Color (moist) % Type! Loc? 0 - 10 10YR 4/1 95 7.5YR 4/6 5 C PL Silt Loam	Profile Des	cription: (Describe	to the o	depth needed to o	docun	nent the	indicator	r or confirm the al	bsence of indicat	tors.)
Cinces Color (most) ** Uppe Loc Locature Remarks 10 - 18 10 YR 4/1 25 7.57 R4(4) 25 C PL Silt Loam				Redox	k Feat	ures				
0-10 10YR 4/1 95 7.5YR 4/6 5	(inches)	Color (moist)		Color (moist)		Type	Loc ²	lexti	ure	Remarks
10-18 10YR 6/4 25 C PL Silty Clay Loam Image: Silty Clay Loam Image: Silty Clay Loam Image: Silty Clay Loam Image: Silty Clay Loam Image: Silty Clay Loam Image: Silty Clay Loam Image: Silty Clay Loam Image: Silty Clay Loam Image: Silty Clay Loam Image: Silty Clay Loam Image: Silty Clay Loam Image: Silty Clay Loam Image: Silty Clay Loam Image: Silty Clay Loam Image: Silty Clay Loam Image: Silty Clay Loam Image: Silty Clay Loam Image: Silty Clay Loam Image: Silty Clay Loam Image: Silty Clay Loam Image: Silty Clay Loam Image: Silty Clay Loam Image: Silty Clay Loam Image: Silty Clay Loam Image: Silty Clay Loam Image: Silty Clay Loam Image: Silty Clay Loam Image: Silty Clay Loam Image: Silty Clay Loam Image: Silty Clay Loam Image: Silty Clay Loam Image: Silty Clay Loam Image: Silty Clay Loam Image: Silty Clay Loam Image: Silty Clay Loam Image: Silty Clay Loam Itype: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. *Location: PL = Pore Lining, M = Matrix. Itype: C = Concentration Silty Clay Loam Image: Silty Clay Loam Image: Silty Clay Loam	0 - 10	10YR 4/1	95	7.5YR 4/6	5			Silt Lo	bam	
Type: (= Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. *Location: PL = Pore Lining, M = Matrix, Hydric Soil Indicators: Indicators for Problematic Hydric Soils*. Histic Epipedon (A2) Thin Dark Surface (S9) (LRR R, MLRA 149B) 2 cm Muck (A10) (LRR K, L R) Histic Epipedon (A2) Thin Dark Surface (S9) (LRR K, L1 A19B) Coast Prairie Redox (A16) (LRR K, L R) Stratified Layers (A5)	10 - 18	10YR 4/2	75	10YR 6/4	25	C	PL	Silty Clay	y Loam	
"Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. *Location: PL = Pore Lining, M = Matrix. Hydric Soil Indicators: Indicators for Problematic Hydric Soils? Histosol (A1) Polyvalue Below Surface (S9) (LRR R, MLRA 149B) 2 cm Muck (A10) (LRR K, L, R) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) Scast Prairie Redox (A16) (LRR K, L, R) Phytrogen Sulfide (A4) Loamy Micky Mineral (F1) Scast Prairie Redox (A16) (LRR K, L, R) Park Surface (S5) (LRR K, MURA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Depleted Bow Dark Surface (S1) (LRR K, L) Scast Prairie Redox (A11) (LRR K, L, R) Depleted Bow Dark Surface (S1) (LRR K, L) Dark Surface (S9) (LRR K, L) Depleted Bow Dark Surface (A11) // C Rodx Dark Surface (F6) Polyvalue Below Surface (S9) (LRR K, L) Sandy Gleeyd Matrix (S1) Second Dark Surface (S1) (LRR K, L, R) Sandy Gleeyd Matrix (S2) Depleted Dark Surface (F7) Trino-Manganees Masses (F12) (LRR K, L, R) Sandy Gleeyd Matrix (S1) Redox Depressions (F8) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Gleeyd Matrix (S2) Bel Parent Material (F21) Dark Surface (S1) (LRR K, MLA 149B) Dark Surface (S1) (LRR R, MLRA 149B) Other (Explain in Remarks) Depleted Matrix (S3) Dark										
Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. ?Location: PL = Pore Lining, M = Matrix. Hydric Soll Indicators: Indicators for Problematic Hydric Solls?: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, MLRA 149B) 2 cm Muck (A10) (LRR K, L, MLRA 149B) Black Histic (A3) Loarny Mucky Mineral (F1) (LRR K, L) 5 cm Mucky Peator Peatr (S3) (LRR K, L) Hydric Soll Indicators: Depleted Matrix (F2) Dark Surface (S9) (LRR K, L) Stratified Layers (A5) Z Depleted Matrix (F2) Dark Surface (S7) (LRR K, L) Depleted Below Dark Surface (A11) Redox Dark Surface (F6) Thin Dark Surface (S7) (LRR K, L) Sandy Mucky Mineral (S1) Z Redox Dark Surface (F7) Ino -Manganese Masses (F12) (LR K, L, R) Sandy Gleyed Matrix (S4) Peleted Dark Surface (F7) Ino -Manganese Masses (F12) (LR K, L, R) Sandy Mucky Mineral (S1) Redox Depressions (F8) Pleftornet Floodplain Solis (F19) (MLR A 149B) Stripped Matrix (S4) Beel Present, unless disturbed or problematic. Restrictive Layer (if Observed): Type: None Type: None Hydric Soll Present? Yes _< No							. <u> </u>			
Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. *Location: PL = Pore Lining, M = Matrix. Hydric Soil Indicators: Indicators for Problematic Hydric Soils? Histic Epipedon (A2) Thin Dark Surface (S9) (LRR R, MLRA 149B) _2 cm Muck (A10) (LRR K, L, R) Black Histic (A3) _Loamy Mucky Mineral (F1) (LRR K, L) _5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Hydrogen Sulfide (A4) _Loamy Gieyed Matrix (F2) _Dark Surface (S9) (LRR K, L) Stratified Layers (A5) _Z Depleted Matrix (F2) _Dark Surface (S1) (LRR K, L) Stratified Layers (A5) _Z Depleted Matrix (F2) _Dark Surface (S1) (LRR K, L) Thick Dark Surface (A11)K Redox Dark Surface (F7) _Thin Dark Surface (S1) (LRR K, L) Sandy Mucky Mineral (S1) _K Redox Depressions (F8)										
Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. *Location: PL = Pore Lining, M = Matrix. Hydric Soil Indicators: Indicators for Problematic Hydric Soils*: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, MLRA 1498) 2 com Muck (A10) (LRR K, L R) Black Histic (A3)										
Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. *Location: PL = Pore Lining, M = Matrix. Hydric Soil Indicators: Indicators for Problematic Hydric Soils*: Histosol (A1) Polyvalue Below Surface (S9) (LRR R, MLRA 149B) Const for Problematic Hydric Soils*: Histosol (A1) Polyvalue Below Surface (S9) (LRR R, MLRA 149B) Const for Problematic Hydric Soils*: Histosol (A1) Polyvalue Below Surface (S9) (LRR R, MLRA 149B) Const for Problematic Hydric Soils*: Hydrogen Sulfide (A3) Loany Mucky Mineral (F1) (LRR K, L) S const for Problematic (S3) (LRR K, L)					·					
Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. *Location: PL = Pore Lining, M = Matrix. Hydric Soil Indicators: Indicators for Problematic Hydric Soils*: Histic Epideon (A2) Thin Dark Surface (S9) (LRR R, MLRA 149B) 2 cm Muck (A10) (LRR K, L, R) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) 5 cm Muck (A10) (LRR K, L, R) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Dark Surface (S7) (LRR K, L) Stratified Layers (A5)										
Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. ?Location: PL = Pore Lining, M = Matrix. Hydric Soil Indicators: Indicators for Problematic Hydric Soils? Histic Epipedon (A2) Thin Dark Surface (S9) (LRR R, MLRA 149B) _2 cm Muck (A10) (LRR K, L, R) Black Histic (A3) Loamy Mucky Mineral (F1) (IRR K, L)										
Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. *Location: PL = Pore Lining, M = Matrix. Hydric Soil Indicators: Indicators for Problematic Hydric Soils*. Histosol (A1) Polyvalue Below Surface (S8) (LRR R, MLRA 149B) 2 cm Muck (A10) (LRR K, L, R) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Dark Surface (S7) (LRR K, L) Stratified Layers (A5) Z Depleted Matrix (F3) Polyvalue Below Surface (S8) (LRR K, L) Depleted Below Dark Surface (A11) Redox Dark Surface (F7) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Depleted Dark Surface (F7) Thin Dark Surface (S9) (LRR K, L) Sandy Mucky Mineral (S1) Redox Depressions (F8) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Gleyed Matrix (S4) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Red Parent Material (F21) Sandy Redox (S5) Red Parent Material (F21) Very Shallow Dark Surface (F7) Dark Surface (S7) (LRR R, MLRA 149B) Very Shallow Dark Surface (F7) Iron-Manganese Masses (F12) (LRR K, L) Sandy Redox (S5) Red Parent Material (F21) Very Shallow Dark Surface (F7) Iron-Manganese Masses (F12) (LRR K, L) <							·			
Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. ² Location: PL = Pore Lining, M = Matrix. Hydric Soil Indicators: Indicators for Problematic Hydric Soils? Histosol (A1) Polyvalue Below Surface (S8) (LRR R, MLRA 149B) Cart Muck (A10) (LRR K, L, MLRA 149B) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) S cm Mucky Peat or Peat (S3) (LRR K, L R) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Dark Surface (S7) (LRR K, L) Stratified Layers (A5) Depleted Matrix (F3) Dark Surface (S9) (LRR K, L) Stratified Layers (A5) Depleted Dark Surface (F6) Thin Dark Surface (S9) (LRR K, L)	l									
Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. *Location: PL = Pore Lining, M = Matrix. Hydric Soil Indicators: Indicators for Problematic Hydric Soils?:	<u></u>						·			
"Type: C = Concentration, U = Depletion, RM = Neduced Matrix, MS = Masked Sand Grains. *Location: PL = Pore Lining, M = Matrix. Hydric Soil Indicators: Indicators for Problematic Hydric Soils?: Histos (A1) Polyvalue Below Surface (S8) (LRR R, MLRA 149B) 2 cm Muck (A10) (LRR K, L, MLRA 149B) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F3) Depleted Matrix (F3) Stratified Layers (A5) Depleted Matrix (F3) Polyvalue Below Surface (S8) (LRR K, L) Stratified Layers (A5) Depleted Matrix (F7) Thin Dark Surface (S1) (LRR K, L) Stratified Layers (A5) Depleted Matrix (F7) Thin Dark Surface (S1) (LRR K, L) Sandy Mucky Mineral (S1) Redox Dark Surface (F7) Thin Dark Surface (S1) (LRR K, L, R) Sandy Mucky Mineral (S5) Red Parent Material (F21) Iron-Manganese Masses (F12) (LRR K, L) Stratified Layers (S5) Red Parent Material (F21) Very Shallow Dark Surface (T42) Dark Surface (S7) (LRR R, MLRA 149B) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Stratified Layer (if observed): Hydric Soil Present? Yes _ No Type: None Hydric Soil Present? Yes _ No	$(T_{i}) = 0$	C	<u> </u>	DM - Deduce				C. and Caraina 21.		
Hydric Soll Indicators: indicators for Problematic Hydric Solls:	¹ Iype: $c = c$	Soncentration, $D = 1$	Depleu	on, RM = Reduce	d Mai	rix, M5 =	Маѕкец	Sand Grains. 4L	ocation: PL = Por	e Lining, M = Matrix.
	Hydric Soil	Indicators:			_				Indicators for H	Problematic Hydric Soils ³ :
	Histoso	I (A1)		Polyvalue Be	elow S	Surface (S	58) (LRR I	R, MLRA 149B)	2 cm Muck	(A10) (LRR K, L, MLRA 149B)
	Histic Ep	pipedon (A2)		Thin Dark Su	urface	: (S9) (LRI	R, MLR	A 149B)	Coast Prair	ie Redox (A16) (LRR K, L, R)
	Віаск ні	istic (A3)		Loamy Muci	ky Mir	ieral (F1)	(LRR К, I	_)	5 cm Muck	y Peat or Peat (S3) (LRR K, L, R)
Statified Layers (KS)	Hyaroge	en Sulfide (A4)		Loamy Gleye	ed IVIa	trix (FZ)			Dark Surfa	ce (S7) (LRR K, L)
	Straume	d Layers (AS)	(A1	Depieted ivia	atrix (F3) co (56)			Polyvalue E	3elow Surface (S8) (LRR K, L)
	Depiece	a Below Dark Surre	зсе (Ат		Suria Suria	Ce (ro) rfaca (F7	'n		Thin Dark S	Surface (S9) (LRR K, L)
	Sandy M	Aucky Mineral (S1)		Depieted De	acsion	ns (F8))		Iron-Manga	anese Masses (F12) (LRR K, L, R)
Sainty Gleyed Matrix (54) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) alndicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: None Hydric Soil Present? Yes No Depth (inches): Remarks:	Sandy (Loved Matrix (S4)			833101	15 (F0)			Piedmont F	-loodplain Soils (F19) (MLRA 149B)
Santy Redux (SS)	Sandy C	JIEYEU WIDU IN (34)							Mesic Spoc	lic (TA6) (MLRA 144A, 145, 149B)
Stripped Matrix (S6)Very Shallow Dark Surface (TF12)Other (Explain in Remarks) Other (Explain in Remarks) 	Sanuy n	A Matrix (SG)							Red Parent	Material (F21)
Other (Explain in Remarks) 3Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: None Hydric Soil Present? Yes No Remarks:	Stripper		41 DA 1.	400)					Very Shallo	w Dark Surface (TF12)
3Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: None Depth (inches): Hydric Soil Present? Yes _ < _ No	Dark su	Tace (57) (LKK K, IV	ILKA 14	19B)					Other (Expl	lain in Remarks)
Restrictive Layer (if observed): Type: None Depth (inches): Remarks:	³ Indicators	of hydrophytic veg	etation	and wetland hyc	lrolog	y must b	e pr <u>eser</u>	it, unless <u>disturbe</u>	d or pro <u>blematio</u>	<u> </u>
Type: None Depth (inches): Hydric Soil Present? Remarks:	Restrictive	Layer (if observed):				-	Ī		·	
Depth (inches): Remarks:	l	Type:		None			Hydric	Soil Present?		Yes No
Remarks:	l	Depth (inches):		-	-		1			
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Hydrology Photos



Vegetation Photos



Soil Photos

Photo of Sample Plot



Project/Site: High River	r	Cit	ty/County: Amsterd	lam,				Sampling Date:	2017-July-17	
Applicant/Owner: Ne	extEra				State:	New York		Sampling Point:	W-AJF-02; UPL-1	
Investigator(s): Antho	ony Froonjian	, AJW		Sec	tion, Towns	hip, Range	:			
Landform (hillslope, ter	race, etc.):	Тое	Loca	al relief	(concave, c	convex, noi	ne):	None	Slope (%): 1-10)
Subregion (LRR or MLR	A): LRR L	-		Lat:	42.905133	89 Lo	ong:	-74.1329214	Datum: WGS84	
Soil Map Unit Name:	Palatine silt l	oam, 15 to 25 perc	cent slopes (PaD)					NWI classifi	cation:	
Are climatic/hydrologic	conditions or	the site typical fo	r this time of year?		Yes 🖌	_No (lf no	o, explain in Rema	ırks.)	
Are Vegetation,	Soil,	or Hydrology	significantly disturb	oed?	Are "No	ormal Circu	ums	tances" present?	Yes 🟒 No	
Are Vegetation,	Soil,	or Hydrology	naturally problema	tic?	(If need	ded, explaiı	n ar	y answers in Rem	iarks.)	

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes No 🟒		
Hydric Soil Present?	Yes No 🟒	Is the Sampled Area within a Wetland?	Yes No 🟒
Wetland Hydrology Present?	Yes No _	lf yes, optional Wetland Site ID:	
Remarks: (Explain alternative procedures her	e or in a separate report		
TRC covertype is UPL.			

Wetland Hydrology Indicators:				
Primary Indicators (minimum of on	<u>e is required; check all t</u>	hat apply)	Secondary Indicators (minimum o	<u>f two required)</u>
Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2)	Water- Aquatio Marl D Hydrog Oxidize	Stained Leaves (B9) c Fauna (B13) eposits (B15) gen Sulfide Odor (C1) ed Rhizospheres on Living Roots (C3)	 Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Ima 	agery (C9)
Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Ima Sparsely Vegetated Concave Sur	Presen Recent Thin M gery (B7) Other (face (B8)	ce of Reduced Iron (C4) Iron Reduction in Tilled Soils (C6) uck Surface (C7) Explain in Remarks)	 Stunted or Stressed Plants (D1 Geomorphic Position (D2) Shallow Aquitard (D3) Microtopographic Relief (D4) FAC-Neutral Test (D5))
Field Observations:				
Surface Water Present?	Yes No 🟒	Depth (inches):		
Water Table Present?	Yes No 🟒	Depth (inches):	- Wetland Hydrology Present?	Yes No 🟒
Saturation Present?	Yes No 🟒	Depth (inches):	-	
(includes capillary fringe)			-	
Describe Recorded Data (stream ga	uge, monitoring well, a	erial photos, previous inspections), if	available:	
Remarks:				

Sampling Point: W-AJF-02; UPL-1

<u>Tre</u>	<u>e Stratum</u> (Plot size: <u>30 ft</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test works Number of Dominant	sheet: Species That	0	(Δ)
1.					Are OBL, FACW, or FAC	2:		(~)
2.					Total Number of Dom Across All Strata:	inant Species	4	(B)
э. 4.					Percent of Dominant S	Species That	0	(A/B)
5.					Prevalence Index worl	 ksheet:		
6.					Total % Cove	r of	Multiply	Bv:
7.					OBL species	0	x 1 =	<u>.</u> 0
		0	= Total Cov	/er	EACW species		×2-	0
Sap	<u>ling/Shrub Stratum</u> (Plot size: <u>15 ft</u>)		_		EAC species	10	×2- ×2-	20
1.	<i>Rubus occidentalis</i>	35	Yes	UPL	FAC Species	10	x 3 =	30
2.	luglans nigra	10	Yes	FACU	FACU species	60	x 4 =	240
З					- UPL species	75	x 5 =	375
л. Л					Column Totals	145	(A)	645 (B)
4. 5					Prevalence l	ndex = B/A =	4.4	
5. c					Hydrophytic Vegetatio	on Indicators:		
ю. ¬					1- Rapid Test for	Hydrophytic V	/egetatior	1
7.					2 - Dominance Te	est is > 50%		
		45	= Total Cov	/er	3 - Prevalence In	dex is $\leq 3.0^1$		
<u>He</u>	<u>ˈb Stratum</u> (Plot size: <u>5 ft</u>)				4 - Morphologica	Adaptations	¹ (Provide	supporting
1.	Pastinaca sativa	40	Yes	UPL	data in Remarks or on	a separate sh	neet)	0
2.	Solidago canadensis	35	Yes	FACU	Problematic Hyd	rophytic Vege	tation ¹ (Ex	(plain)
3.	Circaea canadensis	15	No	FACU	¹ Indicators of hydric s	oil and wetlan	d hvdrolo	gy must be
4.	Euthamia graminifolia	10	No	FAC	present, unless distur	bed or proble	matic	8,
5.					Definitions of Vegetati	ion Strata:		
6.					Tree - Woody plants 3	(7.6 cm) or	r more in	diameter at
7.					breast height (DBH), r	egardless of h	eight.	
8					Sanling/shrub - Wood	v nlants less t	han 3 in 1	OBH and
0.			<u> </u>		greater than or equal	to 3.28 ft (1 m) tall.	5 Bir and
9. 10					Herb – All herbaceous	(non-woody)	nlants re	gardless of
10.					size, and woody plant	s less than 3.2	8 ft tall.	Baraicos er
11.					Woody vines – All woo	dy vines great	ter than 3	28 ft in
12.					height.			201011
		100	= Total Cov	/er	Liudua nin tia Va antati		/a.a	la (
Wo	<u>ody Vine Stratum</u> (Plot size: <u>30 ft</u>)				Hydrophytic vegetati	on Present?	res r	NO _ / _
1.								
2.								
3.								
4.								
		0	= Total Cov	/er	•			
<u> </u>			-					
Rei	narks: (Include photo numbers here or on a se	oarate sheet.)						

10YR 3/2 100 Silt Loam -16 10YR 4/4 100 Silt Loam -17 -16 10YR 4/4 100 -16 10YR 4/4 100 Silt Loam -17 -16 10YR 4/4 100 -17 -17 -11 -11 -10 -11 -11 -11 -11 -11 -11 -11 -11 -11 -11 -11 -11 -11 -11 -11 -11 -11 -11 -11 -11 -11 -11 -11 -11 -11 -11 -11 -11 -11 -11 -11 -11 -11 -11 -11 <th>nches)</th> <th>Color (moist)</th> <th>%</th> <th>Color (moist)</th> <th>%</th> <th>Type¹</th> <th>Loc²</th> <th>Texture</th> <th></th> <th>Remarks</th>	nches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture		Remarks
-16 10YR 4/4 100	0 - 5	10YR 3/2	100		<u></u>	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		Silt Loam		
Dee: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. ?Location: PL = Pore Lining, M = Matrix. Indicators: Indicators for Problematic Hydric Soils?: Histosol (A1) Polyvalue Below Surface (S9) (LRR R, MLRA 149B) Histic Epipedon (A2) Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) Just attifed Layers (A5) Depleted Matrix (F2) Depleted Below Dark Surface (A11) Redox Dark Surface (F6) Thic Dark Surface (A12) Depleted Dark Surface (F7) Sandy Mucky Mineral (S1) Redox Depressions (F8) Sandy Redox (S5) Depleted Dark Surface (F7) Stripped Matrix (S6)	5 - 16	10YR 4/4	100		—			Silt Loam	· ·	
Des: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. ?Location: PL = Pore Lining, M = Matrix. Indicators: Indicators for Problematic Hydric Soils ² : Histic Foil Indicators: Indicators for Problematic Hydric Soils ² : Histic Foil Indicators: Indicators for Problematic Hydric Soils ² : Histic Foil Indicators: Indicators for Problematic Hydric Soils ² : Histic A3) Loamy Mucky Mineral (F1) (LRR K, L) Stratified Layers (A5) Depleted Matrix (F3) Depleted Below Dark Surface (A11) Redox Depressions (F6) Stratified Layers (A5) Depleted Matrix (F3) Sandy Mucky Mineral (S1) Redox Depressions (F8) Sandy Redox (S5) Redox Depressions (F8) Stripped Matrix (S6) Red Parent Material (F21) Dark Surface (75) (LRR R, MLRA 149B) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Very Shallow Dark Surface (T61) Strater (S6) Red Parent Material (F21) Dark Surface (S7) (LRR R, MLRA 149B) Very Shallow Dark Surface (T72) Stripped Matrix (S6) Red Parent Material (F21) Dark Surface (S7) (LRR R, MLRA 149B) Very Shallow Dark Surface (T72) Lorex Muterial (F21) Very Shallow Dark Sur										
De: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. ² Location: PL = Pore Lining, M = Matrix. Indicators: Indicators: Histosol (A1)										
De: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. ² Location: PL = Pore Lining, M = Matrix. Indicators: Indicators for Problematic Hydric Soils*: Histos Soil (A1) Polyvalue Below Surface (S8) (LRR R, MLRA 149B) 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histos Soil (A2) Thin Dark Surface (S9) (LRR R, MLRA 149B) 2 cm Muck (A10) (LRR K, L, MLRA 149B) Black Histit (A3) Loamy Mucky Mineral (F1) (LRR K, L) 5 cm Muck Peat or Peat (S3) (LRR K, L, R) Stratified Layers (A5) Depleted Matrix (F2) Dark Surface (S7) (LRR K, L) Depleted Below Dark Surface (A11) Redox Dark Surface (F6) Tron-Manganese Masses (F12) (LRR K, L) Sandy Mucky Mineral (S1) Redox Dark Surface (F7) Trin Dark Surface (S10) (LRR K, L, R) Sandy Gleyed Matrix (S4) Depleted Dark Surface (F7) Tron-Manganese Masses (F12) (LRR K, L) Sandy Redox (S5) Mesic Spodic (TA6) (MLRA 1448)										
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Hydrogen Sulfide (A4)Loamy Gleyed Matrix (F2)Dark Surface (S7) (LRR K, L) Stratified Layers (A5)Depleted Matrix (F3)Polyvalue Below Surface (S8) (LRR K, L) Depleted Below Dark Surface (A11)Redox Dark Surface (F6)Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12)Depleted Dark Surface (F7)Thin Dark Surface (S9) (LRR K, L) Sandy Mucky Mineral (S1)Redox Depressions (F8)Nesic Spodic (TA6) (MLRA 149B) Sandy Redox (S5)	Black H	istic (A3)		Loamy Mucky	/ Min	eral (F1)	(LRR K, L)		5 cm Muc	ky Peat or Peat (S3) (LRR K, L, R)
Stratified Layers (A5)	Hydrog	en Sulfide (A4)		Loamy Gleye	d Mat	trix (F2)			Dark Surfa	ace (S7) (LRR K, L)
Depleted Below Dark Sufface (A12)	Stratifie	d Layers (A5)	(111)	Depleted Mat	rix (F	-3) -a (E6)			Polyvalue	Below Surface (S8) (LRR K, L)
Index Dark Sufface (M2) <ta>Sandy Mucky Mineral (S1) <ta>Sandy Redox (S5) <ta>Stripped Matrix (S6) <ta>Dark Surface (S7) (LRR R, MLRA 149B) <ta>Stripped Matrix (S6) <ta>D</ta></ta></ta></ta></ta></ta>	Depiete	ed below Dark Surra	ce (ATT)	\underline{j} Redux Dark S	unac	e (FO) faco (E7)			Thin Dark	Surface (S9) (LRR K, L)
Sandy Gleyed Matrix (S4)	Thick D	ark Surface (A12)		Depleted Dar						
Sandy Redox (S5)	Thick D Sandy N	ark Surface (A12) Aucky Mineral (S1)		Depleted Dar Redox Depres	ssion	s (F8)			Iron-Mang	ganese Masses (F12) (LRR K, L, R)
Stripped Matrix (S6)	_ Thick D _ Sandy N _ Sandy (ark Surface (A12) Mucky Mineral (S1) Gleved Matrix (S4)		Depleted Dar Redox Depre	ssion	s (F8)			Iron-Mang Piedmont	ganese Masses (F12) (LRR K, L, R) Floodplain Soils (F19) (MLRA 149B)
Dark Surface (S7) (LRR R, MLRA 149B) Licators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. trictive Layer (if observed): Type: None Depth (inches): Hydric Soil Present? YesNo	_ Thick D _ Sandy N _ Sandy (Sandy F	ark Surface (A12) Mucky Mineral (S1) Gleyed Matrix (S4) Redox (S5)		Depleted Dar Redox Depre	ssion	s (F8)			Iron-Mang Piedmont Mesic Spo	ganese Masses (F12) (LRR K, L, R) Floodplain Soils (F19) (MLRA 149B) Idic (TA6) (MLRA 144A, 145, 149B)
iicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. trictive Layer (if observed): Type:NoneHydric Soil Present? YesNo✓	_ Thick D _ Sandy N _ Sandy (_ Sandy F _ Strippe	ark Surface (A12) Mucky Mineral (S1) Gleyed Matrix (S4) Redox (S5) d Matrix (S6)		Depleted Dar Redox Depre	ssion	s (F8)			Iron-Mang Piedmont Mesic Spo Red Parer	ganese Masses (F12) (LRR K, L, R) Floodplain Soils (F19) (MLRA 149B) dic (TA6) (MLRA 144A, 145, 149B) nt Material (F21)
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	_ Thick D _ Sandy N _ Sandy C _ Sandy F _ Strippe _ Dark Su dicators strictive	ark Surface (A12) Mucky Mineral (S1) Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) (LRR R, M <u>of hydrophytic veg</u> Layer (if observed): Type: Depth (inches):	ILRA 149	Depleted Dar Redox Depre 3B) and wetland hydr <u>None</u>		y must be	e present, ur Hydric Soil	less disturbe Present?	Iron-Mang Piedmont Mesic Spo Red Parer Very Shall Other (Exp d or problemat Yes	ganese Masses (F12) (LRR K, L, R) Floodplain Soils (F19) (MLRA 149B) dic (TA6) (MLRA 144A, 145, 149B) at Material (F21) ow Dark Surface (TF12) olain in Remarks) ic.
	_Thick D. _Sandy N _Sandy G _Sandy F _Strippe _Dark SL dicators strictive	ark Surface (A12) Mucky Mineral (S1) Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) (LRR R, M of hydrophytic veg Layer (if observed): Type: Depth (inches):	ILRA 149	Depleted Dar Redox Depre ?B) and wetland hydr 		/ must be	e present, ur Hydric Soil	less disturbe Present?	Iron-Mang Piedmont Mesic Spo Red Parer Very Shall Other (Exp d or problemat Yes	ganese Masses (F12) (LRR K, L, R) Floodplain Soils (F19) (MLRA 149B) dic (TA6) (MLRA 144A, 145, 149B) nt Material (F21) ow Dark Surface (TF12) olain in Remarks) ic.
	Thick D. Sandy N. Sandy G. Sandy F. Strippe Dark Su dicators strictive	ark Surface (A12) Mucky Mineral (S1) Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) (LRR R, M <u>of hydrophytic veg</u> Layer (if observed): Type: Depth (inches):	ILRA 149	Depleted Dar Redox Depre ?B) and wetland hydr 		/ must be	e present, ur Hydric Soil	less disturbe Present?	Iron-Mang Piedmont Mesic Spo Red Parer Very Shall Other (Exp d or problemat Yes	ganese Masses (F12) (LRR K, L, R) Floodplain Soils (F19) (MLRA 149B) dic (TA6) (MLRA 144A, 145, 149B) nt Material (F21) ow Dark Surface (TF12) olain in Remarks) <u>ic.</u> No
	_Thick D _Sandy N _Sandy C _Sandy F _Strippe _Dark Su dicators strictive marks:	ark Surface (A12) Mucky Mineral (S1) Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) (LRR R, M <u>of hydrophytic veg</u> Layer (if observed): Type: Depth (inches):	ILRA 149	Depleted Dar Redox Depre 3B) and wetland hydr 		/ must be	e present, ur Hydric Soil	less disturbe	Iron-Mang Piedmont Mesic Spo Red Parer Very Shall Other (Exp d or problemat Yes	ganese Masses (F12) (LRR K, L, R) Floodplain Soils (F19) (MLRA 149B) dic (TA6) (MLRA 144A, 145, 149B) at Material (F21) ow Dark Surface (TF12) olain in Remarks) <u>ic.</u> No∕
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Soil Photos



Project/Site: High Rive	er	Ci	ty/County: Amsterd	lam,			Sampling Da	ate: 2017-July-17
Applicant/Owner: N	lextEra				State:	New York	Sampling Poin	It: W-AJF-02; UPL-2
Investigator(s): Anth	iony Froonjian	, AJW		Sect	tion, Towns	hip, Range:		
Landform (hillslope, te	rrace, etc.):	Тое	Loc	al relief	(concave, c	convex, none	e): None	Slope (%): 5-10
Subregion (LRR or MLR	RA): LRR I	-		Lat:	42.904796	6 Lon	g: -74.1325069	Datum: WGS84
Soil Map Unit Name:	Palatine silt	oam, 15 to 25 per	cent slopes (PaD)				NWI class	sification:
Are climatic/hydrologic	c conditions or	the site typical fo	r this time of year?		Yes 🖌	No (If	no, explain in Re	marks.)
Are Vegetation,	Soil,	or Hydrology	_ significantly distur	oed?	Are "No	ormal Circur	nstances" presen	it? Yes 🟒 No
Are Vegetation,	Soil,	or Hydrology	_ naturally problema	tic?	(If need	ded, explain	any answers in R	emarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes No 🟒		
Hydric Soil Present?	Yes No 🟒	Is the Sampled Area within a Wetland?	Yes No 🟒
Wetland Hydrology Present?	Yes No 🟒	lf yes, optional Wetland Site ID:	
Remarks: (Explain alternative procedures he	re or in a separate report)	
TRC covertype is UPL			

Wetland Hydrology Indicators:				
Primary Indicators (minimum of one	Secondary Indicators (minimum of two required)			
Surface Water (A1) Water-Stained Leaves (B9) High Water Table (A2) Aquatic Fauna (B13) Saturation (A3) Marl Deposits (B15) Water Marks (B1) Hydrogen Sulfide Odor (C1) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3)		 Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imager: (C0) 		
 Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Images Sparsely Vegetated Concave Sur 	 Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Thin Muck Surface (C7) Other (Explain in Remarks) face (B8) 	 Stunted or Stressed Plants (D1) Geomorphic Position (D2) Shallow Aquitard (D3) Microtopographic Relief (D4) FAC-Neutral Test (D5) 		
Field Observations:				
Surface Water Present?	Yes No Depth (inches):			
Water Table Present?	Yes No _	Wetland Hydrology Present? Yes No		
Saturation Present?	Yes No Depth (inches):			
(includes capillary fringe)				
Describe Recorded Data (stream ga	uge, monitoring well, aerial photos, previous inspections), if a	ıvailable:		

Sampling Point: W-AJF-02; UPL-2

Tree Stratum (Plot size: <u>30 ft</u>)	Absolute % Cover	Dominant	Indicator Status	Dominance Test work	sheet:					
1		- species.	Status	Are OBL, FACW, or FAC	C:	1	(A)			
1.				Total Number of Dom	inant Species					
2.		<u> </u>		Across All Strata:		6	(B)			
3.		·		Percent of Dominant	Species That		(4 (5)			
4.				Are OBL, FACW, or FAC:		16.7	(A/B)			
5.				- Prevalence Index worksheet:						
6.				- <u>Total % Cove</u>	Multiply By:					
7				- OBL species	0	x 1 =	0			
	0	= Total Cov	er	FACW species	0	x 2 =	0			
<u>Sapling/Shrub Stratum</u> (Plot size: <u>15 ft</u>)				FAC species	5	x 3 =	15			
1. <i>Cornus racemosa</i>	5	Yes	FAC	- FACU species	50	x 4 =	200			
2. Lonicera morrowii	5	Yes	FACU	– UPL species	65	x 5 =	325			
3				- Column Totals	120	(A)	540 (B)			
4				- Prevalence	Index = B/A =	45	310 (D)			
5.						4.5				
6.				Hydrophytic Vegetatic	on Indicators:	,				
7.				- 1- Rapid Test for	Hydrophytic V	egetation				
	10	= Total Cov	er	2 - Dominance I	est is > 50%					
<u>Herb Stratum</u> (Plot size: <u>5 ft</u>)		-		3 - Prevalence In	dex is $\leq 3.0^{\circ}$					
1. Pastinaca sativa	30	Yes	UPL	4 - Morphologica	al Adaptations	(Provide s	supporting			
2. Solidago canadensis	25	Yes	FACU	- Uala III Remarks of Of	raseparate si	ieel) tation1 (Ev	nlain)			
3. Dactylis glomerata	20	Yes	FACU	Indicators of hydric soil and watland hydrology must be						
4. Bromus inermis	20	Yes	UPL	 Indicators of hydric soil and wetland hydrology must be present, upless disturbed or problematic 						
5. Securigera varia	15	No	UPL	Definitions of Vegetat	ion Strata:	natic				
6				Tree Woody plants 3	in (7.6 cm) or	r moro in c	diamotor at			
7				_ free - woody plants 3 in. (7.6 cm) of more in diameter at						
8				- Sanling/shruh - Wood	ing/shrub – Woody plants less than 3 in. DBH and					
0				greater than or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.						
10							ardless of			
11										
12				- Woody vines - All woo	ody vines great	ter than 3.	28 ft in			
		- Total Cau		height.						
	110	= lotal Cov	er	Hydrophytic Vegetati	on Present?	(es N				
Woody Vine Stratum (Plot size: <u>30 ft</u>)										
1				-						
2				-						
3				_						
4				_						
	0	= Total Cov	er							
1.9 10YR 4/3 100	inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture		Remarks
--	--	---	------------	---	-----------------	---	-------------------------------------	-----------------------------	---	--
-18 10YR 5/4 100 Silt Loam -18 10YR 5/4 100 Silt Loam Silt Loam Silt Loam Silt Loam Silt Loam	0 - 9	10YR 4/3	100			.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		Silt Loam		
De: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. ² Location: PL = Pore Lining, M = Matrix. Indicators: Indicators for Problematic Hydric Soils?: Histosol (A1) Polyvalue Below Surface (S9) (LRR R, MLRA 149B) Histic Epipedon (A2) Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) Loamy Gleyed Matrix (F2) Stratified Layers (A5) Depleted Matrix (F2) Depleted Below Dark Surface (A11) Redox Dark Surface (F6) Thick Straftee (L32) Depleted Dark Surface (F7) Sandy Mucky Mineral (S1) Redox Depressions (F8) Sandy Redox (S5) Depleted Dark Surface (F7) Stripeed Matrix (S4) Mesic Spodic (TA6) (MLRA 149B) Sandy Redox (S5) Red Parent Material (F21) Straftec (S7) (LRR R, MLRA 149B) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Very Shallow Dark Surface (TF12) Sandy Redox (S5) Red Parent Material (F21) Straftec (S7) (LRR R, MLRA 149B) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Very Shall	9 - 18	10YR 5/4	100		·			Silt Loam		
be: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. ² Location: PL = Pore Lining, M = Matrix. Indicators: Indicators for Problematic Hydric Soils?: Histic Soil Indicators: Indicators for Problematic Hydric Soils?: Histic Epipedon (A2) Thin Dark Surface (S8) (LRR R, MLRA 149B) Loamy Mucky Mineral (F1) (LRR K, L) Sort Muck (A10) (LRR K, L, R) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) Stratified Layers (A5) Depleted Matrix (F2) Depleted Below Dark Surface (A11) Redox Depressions (F8) Sandy Gleyed Matrix (S4) Depleted Dark Surface (F7) Sandy Redox (S5) Redox Depressions (F8) Striged Matrix (S6) Red Parent Material (F21) Dark Surface (S7) (LRR R, MLRA 149B) Very Shallow Dark Surface (F12) Sandy Redox (S5) Red Parent Material (F21) Striged Matrix (S6) Red Parent Material (F21) Dark Surface (S7) (LRR R, MLRA 149B) Very Shallow Dark Surface (F12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) Iicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Very Shallow Dark Surface (T12) Depth (inches): None Yes No							·			
De: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. ² Location: PL = Pore Lining, M = Matrix. Indicators: Indicators for Problematic Hydric Soils ³ : Histosol (A1) Polyvalue Below Surface (S8) (LRR R, MLRA 149B) 2 cm Muck (A10) (LRR K, L, MLRA 149B) Black Histic CA3 Loamy Mucky Mineral (F1) (LRR K, L) 2 cm Muck (A10) (LRR K, L, R) Pydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Dark Surface (S7) (LRR K, L) Stratified Layers (A5) Depleted Matrix (F3) Depleted Matrix (F3) Depleted Bow Dark Surface (A11) Redox Dark Surface (F7) Thin Dark Surface (S9) (LRR K, L) Stratified Layers (A5) Depleted Dark Surface (F7) Thin Dark Surface (S9) (LRR K, L) Stratified Layers (A5) Depleted Dark Surface (F7) Thin Dark Surface (S9) (LRR K, L) Sandy Mucky Mineral (S1) Redox Depressions (F8) Piedmont Floodplain Soils (F19) (MLRA 149E) Sandy Gleyed Matrix (S4) Mesic Spodic (TA6) (MLRA 144R, 145, 149B) Red Parent Material (F21) Stripped Matrix (S6) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) Licators of hydrophytic vegetation and wetland hydrology must be present, unless distu										
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De: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. ² Location: PL = Pore Lining, M = Matrix. Indicators: Indicators for Problematic Hydric Soils ³ : Histosol (A1) Polyvalue Below Surface (S8) (LRR R, MLRA 149B) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Stratified Layers (A5) Depleted Matrix (F3) Depleted Below Dark Surface (F6) Dolyvalue Below Surface (F7) Sandy Mucky Mineral (S1) Redox Depressions (F8) Sandy Redox (S5) Depleted Dark Surface (F7) Stripped Matrix (S6)							·			
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be: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. ²Location: PL = Pore Lining, M = Matrix. Indicators: Indicators for Problematic Hydric Soils?: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, MLRA 149B) Histic Epipedon (A2) Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Stratified Layers (A5) Depleted Matrix (F3) Depleted Below Dark Surface (A11) Redox Dark Surface (F6) Thick Dark Surface (A12) Depleted Dark Surface (F7) Sandy Mucky Mineral (S1) Redox Depressions (F8) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Red Parent Material (F21) Dark Surface (S7) (LRR R, MLRA 149B) Licators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Trictive Layer (if observed): Type: None Depth (inches):					_					
tric Soil Indicators: Indicators for Problematic Hydric Soils ³ : Histosol (A1) Polyvalue Below Surface (S8) (LRR R, MLRA 149B) Histosol (A2) Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Stratified Layers (A5) Depleted Matrix (F3) Depleted Below Dark Surface (A11) Redox Dark Surface (F6) Thick Dark Surface (A12) Depleted Dark Surface (F7) Sandy Mucky Mineral (S1) Redox Depressions (F8) Sandy Redox (S5) Redox Depressions (F8) Stripped Matrix (S6) Red Parent Material (F21) Dark Surface (S7) (LRR M, MLRA 149B)	/pe: C = (Concentration, D = [Depletio	n, RM = Reduced	Matr	ix, MS =	Masked Sand G	rains. ² Locatio	on: PL = Por	e Lining, M = Matrix.
Histosol (A1)Polyvalue Below Surface (S8) (LRR R, MLRA 149B) Histic Epipedon (A2)Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3)Loamy Mucky Mineral (F1) (LRR K, L) Hydrogen Sulfide (A4)Loamy Gleyed Matrix (F2)Depleted Matrix (F3)Dark Surface (S7) (LRR K, L) Depleted Below Dark Surface (A11)Redox Dark Surface (F6) Thick Dark Surface (A12)Depleted Dark Surface (F7)Thin Dark Surface (S9) (LRR K, L) Sandy Mucky Mineral (S1)Redox Depressions (F8)Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Redox (S5)Redox Depressions (F8)Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Stripped Matrix (S6)Nerder MLRA 149B)Other (Explain in Remarks) licators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Trype:None Depth (inches):YesNo<	dric Soil	Indicators:						Ind	cators for P	roblematic Hydric Soils ³ :
Histic Epipedon (A2)Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3)Loamy Mucky Mineral (F1) (LRR K, L) Hydrogen Sulfide (A4)Loamy Gleyed Matrix (F2)Depleted Matrix (F3)Dark Surface (S7) (LRR K, L, R) Depleted Below Dark Surface (A11) Redox Dark Surface (F6)Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12)Depleted Dark Surface (F7)Thin Dark Surface (S9) (LRR K, L, R) Sandy Mucky Mineral (S1)Redox Depressions (F8)Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5)Stripped Matrix (S6)Mesic Spodic (TA6) (MLRA 144A, 145, 149B)Red Parent Material (F21)Very Shallow Dark Surface (TF12)Other (Explain in Remarks)Other (Explain in Remarks) trictive Layer (if observed):None Depth (inches):	Histoso	l (A1)		Polyvalue Bel	ow S	urface (S	8) (LRR R, MLRA	149B)	2 cm Muck	(A10) (LRR K. L. MLRA 149B)
Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Dark Surface (S7) (LRR K, L) Stratified Layers (A5) Depleted Matrix (F3) Dark Surface (S7) (LRR K, L) Depleted Below Dark Surface (A11) Redox Dark Surface (F6) Nin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Depleted Dark Surface (F7) Iron-Manganese Masses (F12) (LRR K, L, R) Sandy Mucky Mineral (S1) Redox Depressions (F8) Iron-Manganese Masses (F12) (LRR K, L, P) Sandy Redox (S5) Redox Depressions (F8) Nesic Spodic (TA6) (MLRA 1449. 145, 149. 149. 149. 145, 149. 149. 144. 145, 149. 149. 144. 145, 149. 149. 144. 145, 149. 144. 145. 149. 146. 146. 146. 146. 146. 146. 146. 146	_ Histic Ep	pipedon (A2)		Thin Dark Sur	rface	(S9) (LRR	R, MLRA 149B)		Coast Prairi	e Redox (A16) (LRR K, L, R)
Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Dark Surface (S7) (LRR K, L) Stratified Layers (A5) Depleted Matrix (F3) Polyvalue Below Surface (S8) (LRR K, L) Depleted Below Dark Surface (A11) Redox Dark Surface (F6) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Depleted Dark Surface (F7) Thin Dark Surface (S9) (LRR K, L) Sandy Mucky Mineral (S1) Redox Depressions (F8) Piedmont Floodplain Soils (F19) (MLRA 149E Sandy Redox (S5) Mesic Spodic (TA6) (MLRA 144A, 145, 149B)	_ Black Hi	istic (A3)		Loamy Mucky	/ Min	eral (F1)	(LRR K, L)		5 cm Mucky	/ Peat or Peat (S3) (LRR K, L, R)
Stratilied Layers (AS)	_ Hydroge	en Sulfide (A4)		Loamy Gleye		trix (F2)			Dark Surfac	e (S7) (LRR K, L)
Thick Dark Surface (A12)	Deplete	u Layers (AS)	co / 1 1 1		urfac	-5) Te (F6)			Polyvalue B	elow Surface (S8) (LRR K, L)
Sandy Mucky Mineral (S1) Redox Depressions (F8) Iron-Manganese Masses (F12) (LRR K, L, R) Sandy Gleyed Matrix (S4) Piedmont Floodplain Soils (F19) (MLRA 149E) Sandy Redox (S5) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Stripped Matrix (S6) Nerget (S7) (LRR R, MLRA 149E) Dark Surface (S7) (LRR R, MLRA 149B) Nother (Explain in Remarks) licators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Nother (Explain in Remarks) trictive Layer (if observed): None Nother (Soil Present?) Depth (inches):	_ Depiete	YO BEIOW DARK SUITTA	TP (ATT)	N Redox Dark S						
Sandy Gleyed Matrix (S4) Piedmont Floodplain Soils (F19) (MLRA 1498 Sandy Redox (S5) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) Other (Explain in Remarks) Other (Explain in Remarks) Type: None Hydric Soil Present? Yes No Yes No	Thick Da	ark Surface (A12)	ice (ATT)	Redox Dark S(Depleted Dar	k Sur	face (F7)			Thin Dark S	urface (S9) (LRR K, L)
Sandy Redox (S5)	_ Thick Da _ Sandy N	a Below Dark Surfa ark Surface (A12) Mucky Mineral (S1)	ice (ATT)) Redox Dark S Depleted Dar Redox Depre:	k Sur	face (F7) s (F8)			Thin Dark S Iron-Manga	urface (S9) (LRR K, L) inese Masses (F12) (LRR K, L, R)
Stripped Matrix (S6)	_ Thick D _^ _ Sandy N _ Sandy C	a Below Dark Surfa ark Surface (A12) Mucky Mineral (S1) Gleyed Matrix (S4)	ice (ATT)) Redox Dark S Depleted Dar Redox Depre	k Sur	face (F7) s (F8)			Thin Dark S Iron-Manga Piedmont F	urtace (S9) (LRR K, L) inese Masses (F12) (LRR K, L, R) loodplain Soils (F19) (MLRA 149B)
Dark Surface (S7) (LRR R, MLRA 149B)	_ Thick D. _ Sandy N _ Sandy C _ Sandy F	ark Surface (A12) Aucky Mineral (S1) Gleyed Matrix (S4) Redox (S5)	ice (AT1)) Redox Dark S Depleted Dar Redox Depre	k Sur	face (F7) s (F8)			Thin Dark S Iron-Manga Piedmont F Mesic Spod	urtace (S9) (LRR K, L) inese Masses (F12) (LRR K, L, R) loodplain Soils (F19) (MLRA 149B) ic (TA6) (MLRA 144A, 145, 149B) Matarial (F21)
Iicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. trictive Layer (if observed): Type:NoneHydric Soil Present? YesNo _∠	_ Thick D _ Sandy N _ Sandy C _ Sandy F _ Stripped	o Below Dark Surfa ark Surface (A12) Mucky Mineral (S1) Gleyed Matrix (S4) Redox (S5) d Matrix (S6)	ice (A11)) Redox Dark S Depleted Dar Redox Depre	k Sur	face (F7) s (F8)			Thin Dark S Iron-Manga Piedmont F Mesic Spod Red Parent Very Shalloy	urface (S9) (LRR K, L) inese Masses (F12) (LRR K, L, R) loodplain Soils (F19) (MLRA 149B) ic (TA6) (MLRA 144A, 145, 149B) Material (F21) w Dark Surface (TE12)
trictive Layer (if observed): Type:NoneHydric Soil Present? YesNo _∠	_ Thick D _ Sandy N _ Sandy C _ Sandy F _ Stripped _ Dark Su	a Below Dark Surfa ark Surface (A12) Mucky Mineral (S1) Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) (LRR R, M	LRA 149) Redox Dark S Depleted Dar Redox Depre /B)	k Sur	face (F7) s (F8)			Thin Dark S Iron-Manga Piedmont F Mesic Spod Red Parent Very Shallov Other (Expl	urface (S9) (LKR K, L) inese Masses (F12) (LRR K, L, R) loodplain Soils (F19) (MLRA 149B) ic (TA6) (MLRA 144A, 145, 149B) Material (F21) w Dark Surface (TF12) ain in Remarks)
Type: None Depth (inches): Hydric Soil Present?	_ Thick D _ Sandy N _ Sandy C _ Sandy F _ Stripped _ Dark Su	a Below Dark Surfa ark Surface (A12) Mucky Mineral (S1) Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) (LRR R, M	ILRA 149) Redox Dark S Depleted Dar Redox Depre)B)	k Sur	face (F7) s (F8)	procept uplage		Thin Dark S Iron-Manga Piedmont F Mesic Spod Red Parent Very Shallov Other (Explo Droblomatic	urface (S9) (LRR K, L) inese Masses (F12) (LRR K, L, R) loodplain Soils (F19) (MLRA 149B) ic (TA6) (MLRA 144A, 145, 149B) Material (F21) w Dark Surface (TF12) ain in Remarks)
Depth (inches):	_ Thick D _ Sandy N _ Sandy C _ Sandy F _ Stripped _ Dark Su dicators	o Below Dark Surfa ark Surface (A12) Mucky Mineral (S1) Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) (LRR R, M of hydrophytic vego Laver (if observed)	LRA 149) Redox Dark S Depleted Dar Redox Depre }B) and wetland hydr	ssion	face (F7) s (F8) <u>/ must be</u>	e present, unles	 s disturbed or	Thin Dark S Iron-Manga Piedmont F Mesic Spod Red Parent Very Shallov Other (Expl problematic	urface (S9) (LRR K, L) inese Masses (F12) (LRR K, L, R) loodplain Soils (F19) (MLRA 149B) ic (TA6) (MLRA 144A, 145, 149B) Material (F21) w Dark Surface (TF12) ain in Remarks)
	_ Thick D _ Sandy M _ Sandy (_ Sandy F _ Stripped _ Dark Su dicators strictive f	a Below Dark Surfa ark Surface (A12) Mucky Mineral (S1) Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) (LRR R, M of hydrophytic vego Layer (if observed):	LRA 149) Redox Dark S Depleted Dar Redox Depre }B) and wetland hydr	ssion	face (F7) s (F8) <u>/ must be</u>	e present, unles	s disturbed or	Thin Dark S Iron-Manga Piedmont F Mesic Spod Red Parent Very Shallor Other (Expl problematic	urface (S9) (LRR K, L) inese Masses (F12) (LRR K, L, R) loodplain Soils (F19) (MLRA 149B) ic (TA6) (MLRA 144A, 145, 149B) Material (F21) w Dark Surface (TF12) ain in Remarks)
parks:	Thick D. Sandy N Sandy C Sandy F Stripper Dark Su dicators strictive	a Below Dark Surfa ark Surface (A12) Mucky Mineral (S1) Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) (LRR R, M of hydrophytic vege Layer (if observed): Type:	LRA 149) Redox Dark S Depleted Dar Redox Depre }B) and wetland hydr None	rk Sur ssion	face (F7) s (F8) <u>/ must be</u>	e present, unles Hydric Soil Pre	s disturbed or	Thin Dark S Iron-Manga Piedmont F Mesic Spod Red Parent Very Shallov Other (Expl. oroblematic	urface (S9) (LRR K, L) inese Masses (F12) (LRR K, L, R) loodplain Soils (F19) (MLRA 149B) ic (TA6) (MLRA 144A, 145, 149B) Material (F21) w Dark Surface (TF12) ain in Remarks)
	Thick D. Sandy M. Sandy C. Sandy F. Stripper Dark Su dicators strictive I narks:	a Below Dark Surfa ark Surface (A12) Mucky Mineral (S1) Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) (LRR R, M of hydrophytic vege Layer (if observed): Type: Depth (inches):	ILRA 145) Redox Dark S Depleted Dar Redox Depre 38) 3nd wetland hydr 	ology	face (F7) s (F8) <u>y must be</u>	e present, unles Hydric Soil Pre	s disturbed or	Thin Dark S Iron-Manga Piedmont F Mesic Spod Red Parent Very Shalloo Other (Expl. oroblematic	urface (S9) (LKR K, L) inese Masses (F12) (LRR K, L, R) loodplain Soils (F19) (MLRA 149B) ic (TA6) (MLRA 144A, 145, 149B) Material (F21) w Dark Surface (TF12) ain in Remarks)
	Thick D. Sandy M. Sandy C. Sandy F. Stripper Dark Su dicators strictive f	a Below Dark Suffa ark Surface (A12) Mucky Mineral (S1) Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) (LRR R, M of hydrophytic vege Layer (if observed): Type: Depth (inches):	ILRA 149) Redox Dark S Depleted Dar Redox Depre 300 300 wetland hydr 	ology	face (F7) s (F8) <u>/ must be</u>	e present, unles Hydric Soil Pre		Thin Dark S Iron-Manga Piedmont F Mesic Spod Red Parent Very Shallov Other (Expl. oroblematic	urface (S9) (LKR K, L) inese Masses (F12) (LRR K, L, R) loodplain Soils (F19) (MLRA 149B) ic (TA6) (MLRA 144A, 145, 149B) Material (F21) w Dark Surface (TF12) ain in Remarks)
	Thick D. Sandy M. Sandy C. Sandy F. Strippe. Dark Su dicators strictive	a Below Dark Suffa ark Surface (A12) Mucky Mineral (S1) Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) (LRR R, M of hydrophytic vego Layer (if observed): Type: Depth (inches):	ILRA 149) Redox Dark S Depleted Dar Redox Depre 9 B) and wetland hydr 	ology	face (F7) s (F8) <u>/ must be</u>	e present, unles Hydric Soil Pre	s disturbed or	Thin Dark S Iron-Manga Piedmont F Mesic Spod Red Parent Very Shallov Other (Expl. oroblematic	urface (S9) (LKR K, L) inese Masses (F12) (LRR K, L, R) loodplain Soils (F19) (MLRA 149B) ic (TA6) (MLRA 144A, 145, 149B) Material (F21) w Dark Surface (TF12) ain in Remarks)
	Thick D. Sandy M. Sandy C. Sandy F. Stripper Dark Su dicators strictive f	a Below Dark Suffa ark Surface (A12) Mucky Mineral (S1) Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) (LRR R, M of hydrophytic vego Layer (if observed): Type: Depth (inches):	ILRA 149) Redox Dark S Depleted Dar Redox Depre 3B) and wetland hydr 	ology	face (F7) s (F8) <u>/ must be</u>	e present, unles Hydric Soil Pre	s disturbed or	Thin Dark S Iron-Manga Piedmont F Mesic Spod Red Parent Very Shallov Other (Expl. <u>oroblematic</u> Yes	urface (S9) (LRR K, L) inese Masses (F12) (LRR K, L, R) loodplain Soils (F19) (MLRA 149B) ic (TA6) (MLRA 144A, 145, 149B) Material (F21) w Dark Surface (TF12) ain in Remarks)
	Thick D. Sandy M. Sandy C. Sandy F. Stripper Dark Su dicators strictive	a Below Dark Surfa ark Surface (A12) Mucky Mineral (S1) Gleyed Matrix (S4) Redox (S5) d Matrix (S6) Irface (S7) (LRR R, M <u>of hydrophytic vege</u> Layer (if observed): Type: Depth (inches):	ILRA 149) Redox Dark S Depleted Dar Redox Depre 3B) and wetland hydr 	rolog	face (F7) s (F8) <u>/ must be</u>	e present, unles	s disturbed or	Thin Dark S Iron-Manga Piedmont F Mesic Spod Red Parent Very Shallov Other (Expl oroblematic	urface (S9) (LRR K, L) inese Masses (F12) (LRR K, L, R) loodplain Soils (F19) (MLRA 149B) ic (TA6) (MLRA 144A, 145, 149B) Material (F21) w Dark Surface (TF12) ain in Remarks)
	Thick D Sandy N Sandy C Sandy F Strippe Dark Su dicators strictive	a Below Dark Surfa ark Surface (A12) Mucky Mineral (S1) Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) (LRR R, M <u>of hydrophytic vege</u> Layer (if observed): Type: Depth (inches):	ILRA 149) Redox Dark S Depleted Dar Redox Depre 3B) and wetland hydr None	rolog,	face (F7) s (F8) <u>y must be</u>	e present, unles Hydric Soil Pre	s disturbed or	Thin Dark S Iron-Manga Piedmont F Mesic Spod Red Parent Very Shallov Other (Expl. oroblematic	urface (S9) (LRR K, L) inese Masses (F12) (LRR K, L, R) loodplain Soils (F19) (MLRA 149B) ic (TA6) (MLRA 144A, 145, 149B) Material (F21) w Dark Surface (TF12) ain in Remarks)
	Thick D Sandy M Sandy C Sandy F Strippe Dark Su dicators strictive	a Below Dark Surfa ark Surface (A12) Mucky Mineral (S1) Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) (LRR R, M <u>of hydrophytic vege</u> Layer (if observed): Type: Depth (inches):	ILRA 149) Redox Dark S Depleted Dar Redox Depre 3B) and wetland hydr None	rolog	face (F7) s (F8) <u>y must be</u>	e present, unles Hydric Soil Pre	s disturbed or	Thin Dark S Iron-Manga Piedmont F Mesic Spod Red Parent Very Shallov Other (Expl. <u>oroblematic</u> Yes	urface (S9) (LRR K, L) inese Masses (F12) (LRR K, L, R) loodplain Soils (F19) (MLRA 149B) ic (TA6) (MLRA 144A, 145, 149B) Material (F21) w Dark Surface (TF12) ain in Remarks)
	Thick D Sandy M Sandy C Sandy F Strippe Dark Su dicators strictive	e Below Dark Surfa ark Surface (A12) Mucky Mineral (S1) Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) (LRR R, M <u>of hydrophytic vege</u> Layer (if observed): Type: Depth (inches):	ILRA 149) Redox Dark S Depleted Dar Redox Depre 3B) and wetland hydr None	ology	face (F7) s (F8) <u>y must be</u>	e present, unles Hydric Soil Pre	s disturbed or	Thin Dark S Iron-Manga Piedmont F Mesic Spod Red Parent Very Shallov Other (Expl. oroblematic	urface (S9) (LRR K, L) inese Masses (F12) (LRR K, L, R) loodplain Soils (F19) (MLRA 149B) ic (TA6) (MLRA 144A, 145, 149B) Material (F21) w Dark Surface (TF12) ain in Remarks)
	Thick D. Sandy M. Sandy F. Stripper Dark Su dicators strictive	e Below Dark Suffa ark Surface (A12) Mucky Mineral (S1) Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) (LRR R, M <u>of hydrophytic vege</u> Layer (if observed): Type: Depth (inches):	ILRA 149) Redox Dark S Depleted Dar Redox Depre 3B) and wetland hydr 	ology	face (F7) s (F8) <u>/ must be</u>	e present, unles	s disturbed or	Thin Dark S Iron-Manga Piedmont F Mesic Spod Red Parent Very Shallov Other (Expl. oroblematic	urface (S9) (LRR K, L) inese Masses (F12) (LRR K, L, R) loodplain Soils (F19) (MLRA 149B) ic (TA6) (MLRA 144A, 145, 149B) Material (F21) w Dark Surface (TF12) ain in Remarks)
	Thick D. Sandy M. Sandy G. Sandy F. Stripper Dark Su dicators strictive	ark Surface (A12) Mucky Mineral (S1) Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) (LRR R, M of hydrophytic vege Layer (if observed): Type: Depth (inches):	ILRA 149) Redox Dark S Depleted Dar Redox Depre 3B) and wetland hydr 	ology	face (F7) s (F8) <u>y must be</u>	e present, unles	s disturbed or	Thin Dark S Iron-Manga Piedmont F Mesic Spod Red Parent Very Shallov Other (Expl. oroblematic	urface (S9) (LRR K, L) inese Masses (F12) (LRR K, L, R) loodplain Soils (F19) (MLRA 149B) ic (TA6) (MLRA 144A, 145, 149B) Material (F21) w Dark Surface (TF12) ain in Remarks)
	Thick D. Sandy M. Sandy G. Sandy F. Stripped Dark Su dicators strictive	e Below Dark Sufra ark Surface (A12) Mucky Mineral (S1) Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) (LRR R, M of hydrophytic vege Layer (if observed): Type: Depth (inches):	ILRA 149) Redox Dark S Depleted Dar Redox Depre }B) and wetland hydr 	ology	face (F7) s (F8) <u>/ must be</u>	e present, unles	s disturbed or	Thin Dark S Iron-Manga Piedmont F Mesic Spod Red Parent Very Shallov Other (Expl. oroblematic	urface (S9) (LRR K, L) inese Masses (F12) (LRR K, L, R) loodplain Soils (F19) (MLRA 149B) ic (TA6) (MLRA 144A, 145, 149B) Material (F21) w Dark Surface (TF12) ain in Remarks) No
	_ Thick D. _ Sandy N _ Sandy G _ Sandy F _ Stripped _ Dark Su dicators strictive	ark Surface (A12) Mucky Mineral (S1) Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) (LRR R, M of hydrophytic vege Layer (if observed): Type: Depth (inches):	ILRA 149) Redox Dark S Depleted Dar Redox Depre }B) and wetland hydr 	ology	face (F7) s (F8) <u>/ must be</u>	e present, unles	s disturbed or	Thin Dark S Iron-Manga Piedmont F Mesic Spod Red Parent Very Shallov Other (Expl. oroblematic	urface (S9) (LRR K, L) inese Masses (F12) (LRR K, L, R) loodplain Soils (F19) (MLRA 149B) ic (TA6) (MLRA 144A, 145, 149B) Material (F21) w Dark Surface (TF12) ain in Remarks)
	Thick D. Sandy M. Sandy C. Sandy F. Strippe. Dark Su dicators strictive	ark Surface (A12) Mucky Mineral (S1) Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) (LRR R, M of hydrophytic vege Layer (if observed): Type: Depth (inches):	ILRA 149) Redox Dark S Depleted Dar Redox Depre }B) and wetland hydr 	ology	face (F7) s (F8) <u>/ must be</u>	e present, unles	s disturbed or	Thin Dark S Iron-Manga Piedmont F Mesic Spod Red Parent Very Shallov Other (Expl. <u>oroblematic</u> Yes	urface (S9) (LRR K, L) inese Masses (F12) (LRR K, L, R) loodplain Soils (F19) (MLRA 149B) ic (TA6) (MLRA 144A, 145, 149B) Material (F21) w Dark Surface (TF12) ain in Remarks) No
	Thick D. Sandy M. Sandy G. Sandy F. Strippe. Dark Su dicators strictive	o Below Dark Sufra ark Surface (A12) Mucky Mineral (S1) Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) (LRR R, M <u>of hydrophytic veg</u> Layer (if observed): Type: Depth (inches):	ILRA 149) Redox Dark S Depleted Dar Redox Depre 2B) and wetland hydr 	ology	face (F7) s (F8) <u>/ must be</u>	e present, unles Hydric Soil Pre	s disturbed or	Thin Dark S Iron-Manga Piedmont F Mesic Spod Red Parent Very Shallov Other (Expl. <u>oroblematic</u> Yes	urface (S9) (LRR K, L) inese Masses (F12) (LRR K, L, R) loodplain Soils (F19) (MLRA 149B) ic (TA6) (MLRA 144A, 145, 149B) Material (F21) w Dark Surface (TF12) ain in Remarks)
	Thick D. Sandy M. Sandy G. Sandy F. Stripper Dark Su dicators strictive	o Below Dark Suffa ark Surface (A12) Mucky Mineral (S1) Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) (LRR R, M <u>of hydrophytic vege</u> Layer (if observed): Type: Depth (inches):	ILRA 149) Redox Dark S Depleted Dar Redox Depre 9B) and wetland hydr 	ology	face (F7) s (F8) <u>/ must be</u>	e present, unles Hydric Soil Pre	s disturbed or	Thin Dark S Iron-Manga Piedmont F Mesic Spod Red Parent Very Shallov Other (Expl. <u>oroblematic</u> Yes	urface (S9) (LRR K, L) inese Masses (F12) (LRR K, L, R) loodplain Soils (F19) (MLRA 149B) ic (TA6) (MLRA 144A, 145, 149B) Material (F21) w Dark Surface (TF12) ain in Remarks) No
	Thick D. Sandy M. Sandy G. Sandy F. Strippe. Dark Su dicators strictive I	o Below Dark Surfa ark Surface (A12) Mucky Mineral (S1) Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) (LRR R, M <u>of hydrophytic vege</u> Layer (if observed): Type: Depth (inches):) Redox Dark S Depleted Dar Redox Depre 9B) and wetland hydr 	ology	face (F7) s (F8) <u>y must be</u>	e present, unles Hydric Soil Pre	s disturbed or	Thin Dark S Iron-Manga Piedmont F Mesic Spod Red Parent Very Shallov Other (Expl. <u>oroblematic</u> <u>Yes</u>	urface (S9) (LRR K, L) inese Masses (F12) (LRR K, L, R) loodplain Soils (F19) (MLRA 149B) ic (TA6) (MLRA 144A, 145, 149B) Material (F21) w Dark Surface (TF12) ain in Remarks) No

Vegetation Photos



Soil Photos

Photo of Sample Plot



Project/Site: High Rive	er		City/County: Ar	nsterdam,				Sampling Date:	2017-July-17	
Applicant/Owner: N	lextEra				State:	New York		Sampling Point:	W-AJF-03; PEM-1	
Investigator(s): Anth	:									
Landform (hillslope, te	errace, etc.):	Channel		Local relief	(concave, o	convex, nor	ne):	Concave	Slope (%): 2-5	
Subregion (LRR or ML	RA): LRR	L		Lat:	42.903242	29 Lo	ng:	-74.1298476	Datum: WGS84	ł
Soil Map Unit Name:	Fluvaquents	, loamy (FL)						NWI classific	cation:	
Are climatic/hydrologi	c conditions o	n the site typical	for this time of	year?	Yes 🖌	_ No (lf nc	, explain in Rema	rks.)	
Are Vegetation, Are Vegetation	Soil, Soil	or Hydrology	significantly on naturally pro	disturbed? blematic?	Are "N (If need	ormal Circu ded. explair	imst n an	ances" present? v answers in Rem	Yes 🟒 No arks.)	
Subregion (LRR or MLF Soil Map Unit Name: Are climatic/hydrologi Are Vegetation, Are Vegetation,	RA): LRR Fluvaquents c conditions of Soil, Soil,	L , loamy (FL) n the site typical or Hydrology or Hydrology	for this time of y significantly o naturally pro	Lat: year? disturbed? oblematic?	42.903242 Yes _ / Are "No (If need	29 Lo _ No (l ormal Circu ded, explair	If no	-74.1298476 NWI classifie a, explain in Rema ances" present? y answers in Rem	Datum:_WGS84 cation: rks.) Yes _✔ No ıarks.)	-

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes 🟒 No		
Hydric Soil Present?	Yes 🟒 No	Is the Sampled Area within a Wetland?	Yes 🟒 No _
Wetland Hydrology Present?	Yes 🟒 No	If yes, optional Wetland Site ID:	W-AJF-03
Remarks: (Explain alternative procedu	res here or in a separate rep	port)	
TRC covertype is PEM.			

<u>e is required; check all t</u>	<u>hat apply)</u>		Secondary Indicators (minimum of two required)
Water- Aquatio Marl D Hydrog Oxidize	Stained Leaves (B9) : Fauna (B13) eposits (B15) gen Sulfide Odor (C1) ed Rhizospheres on Living Roo	ots (C3)	 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)
Presen Recent Thin M gery (B7) Other (face (B8)	ce of Reduced Iron (C4) Iron Reduction in Tilled Soils (uck Surface (C7) Explain in Remarks)	(C6)	 Stunted or Stressed Plants (D1) Geomorphic Position (D2) Shallow Aquitard (D3) Microtopographic Relief (D4) FAC-Neutral Test (D5)
Yes No 🟒	Depth (inches):		
Yes 🟒 No	Depth (inches):	0	Wetland Hydrology Present? Yes 🟒 No
Yes 🟒 No	Depth (inches):	0	
uge, monitoring well, a	erial photos, previous inspecti	ions), if	available:
	<u>e is required; check all t</u> Water Marl Di Marl Di Marl Di 	 <u>a is required: check all that apply</u>) 	e is required: check all that apply)

Sampling Point: W-AJF-03; PEM-1

Tree Stratum (Plot size: <u>30 ft</u>)	Absolute	Dominant	Indicator	Dominance Test works	sheet:		
	% Cover	Species?	Status		Species That	2	(A)
1				- Total Number of Domi	 nant Spacias		
2				Across All Strata:	nanic species	2	(B)
3				Percent of Dominant 9	inecies That		
4				- Are OBL, FACW, or FAC	:	100	(A/B)
5				Prevalence Index work	sheet:		
6				- Total % Cover	of:	Multiply	By:
7				- OBL species	55	x 1 =	55
	0	= Total Cov	er	FACW species	55	x 2 =	110
Sapling/Shrub Stratum (Plot size: <u>15 ft</u>)				FAC species	15	x 3 =	45
1				- FACU species	0	x 4 =	0
2				UPL species	0	x 5 =	0
3				Column Totals	125	(A) -	210 (B)
4				Prevalence I	ndex = B/A =	1.7	210 (B)
5							
6				- 1- Rapid Test for	Hydrophytic \	/egetation	
7				- 2 - Dominance Te	st is >50%	egetation	
	0	= Total Cov	er	✓ 3 - Prevalence Inc	dex is $< 3.0^1$		
<u>Herb Stratum</u> (Plot size: <u>25 ft transect</u>)				4 - Morphologica	Adaptations	¹ (Provide	supporting
1. <i>Phalaris arundinacea</i>	40	Yes	FACW	- data in Remarks or on	a separate sh	neet)	sapporting
2. <i>Lythrum salicaria</i>	25	Yes	OBL	Problematic Hyd	rophytic Vege	tation ¹ (Ex	plain)
3. <i>Epilobium hirsutum</i>	15	No	FACW	¹ Indicators of hydric so	oil and wetlan	d hydrolog	gy must be
4. <i>Equisetum arvense</i>	15	No	FAC	present, unless distur	bed or problei	matic	
5. <i>Typha latifolia</i>	15	No	OBL	Definitions of Vegetati	on Strata:		
6. <i>Glyceria striata</i>	5	No	OBL	Tree – Woody plants 3	in. (7.6 cm) oi	r more in o	diameter at
7. Veronica americana	5	No	OBL	breast height (DBH), re	egardless of h	eight.	
8. <i>Myosotis scorpioides</i>	5	No	OBL	Sapling/shrub - Wood	y plants less t	han 3 in. D	OBH and
9				greater than or equal	to 3.28 ft (1 m	ı) tall.	
10.				Herb – All herbaceous	(non-woody)	plants, reg	gardless of
11.				size, and woody plants	less than 3.2	8 ft tall.	
12.				Woody vines – All woo	dy vines great	ter than 3.	28 ft in
	125	= Total Cov	er	neight.			
<u>Woody Vine Stratum</u> (Plot size: <u>30 ft</u>)		_		Hydrophytic Vegetatio	on Present?	Yes 🟒 N	lo
1.							
2.			-	=			
3.			-	=			
4.				-			
	0	= Total Cov	er	-			
Pemarks: (Include photo numbers here or on a cor	arate cheet)	_					
Remarks. (include photo numbers here of on a sec	arate sneet.)						

Sampling Point: W-AJF-03; PEM-1

(in also a) -	Matrix		Redox	Feat	ures				
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Te	exture	Remarks
0 - 10	10YR 4/1	95	7.5YR 5/4	5			Gravelly	Sandy Loam	
		· <u> </u>							
		·							
		·							
<u> </u>		·			<u> </u>				
		·							
		• — •							
		· ·							
		· — ·			<u> </u>				
ype: C = C	oncentration, D = [Depletic	on, RM = Reduced	Mat	rix, MS =	Masked S	and Grains. ² Lo	ocation: PL = Pore Lini	ng, M = Matrix.
ydric Soil	ndicators:							Indicators for Proble	ematic Hydric Soils ³ :
Histosol	(A1)		Polyvalue Be	low S	urface (S	8) (LRR R,	MLRA 149B)	2 cm Muck (A10)	
_ Histic Ep	oipedon (A2)		Thin Dark Su	irface	(S9) (LRF	R, MLRA	149B)	Coast Prairie Reg	
_ Black Hi	stic (A3)		Loamy Muck	y Mir	eral (F1)	(LRR K, L)		5 cm Mucky Pea	t or Peat (S3) (I RR K R)
_ Hydroge	en Sulfide (A4)		Loamy Gleye	ed Ma	trix (F2)			Dark Surface (S7	
_ Stratifie	d Layers (A5)		Depleted Ma	ntrix (l	-3)			Polyvalue Below	Surface (S8) (I RR K. I.)
_ Deplete	d Below Dark Surfa	ce (A11)_🖌 Redox Dark	Surfa	ce (F6)			Thin Dark Surfac	e (S9) (I RR K. I)
_ Thick Da	ark Surface (A12)		Depleted Da	rk Su	rface (F7))		Iron-Manganese	Masses (F12) (LRR K. L. R)
_ Sandy N	lucky Mineral (S1)		Redox Depre	essior	ıs (F8)			Piedmont Flood	olain Soils (F19) (MI RA 149B)
_ Sandy G	ileyed Matrix (S4)							Mesic Spodic (TA	(MI RA 144A, 145, 149B)
Sandy R	edox (S5)							Red Parent Mate	erial (F21)
Stripped	d Matrix (S6)							Very Shallow Da	rk Surface (TE12)
_ Dark Su	rface (S7) (LRR R, M	LRA 14	9B)					Other (Explain in	n Remarks)
Indicators	of bydropbytic yog	otation	and wotland byd	rolog	(must b)	procont	uplace disturba	d or problematic	
	or right oprigit vege		and wettand nyu	rolog	y must be	e present,			
esuicuvei			Dock			Lludric C	ail Dracant?		Vac (No
	Type:		ROCK	-		Hydric S	bii Present?		res NO
	Depth (inches):		10						
emarks:									

Hydrology Photos



Vegetation Photos

Soil Photos



Photo of Sample Plot



Project/Site: High Rive	er	C	ity/County: Amsterda	am,			Sampling Date	e: 2017-July-17		
Applicant/Owner: N	lextEra				State:	New York	Sampling Point:	W-AJF-03; UPL-1		
Investigator(s): Anthony Froonjian, AJW Section, Township, Range:										
Landform (hillslope, te	rrace, etc.):	Plain	Loca	l relief	(concave, c	convex, none): None	Slope (%): 2-5		
Subregion (LRR or MLF	RA): LRR L	-		Lat:	42.903269	4 Long	g: -74.1297429	Datum: WGS84		
Soil Map Unit Name:	Fluvaquents,	loamy (FL)					NWI classif	fication:		
Are climatic/hydrologic	c conditions or	the site typical fo	or this time of year?		Yes 🖌	No (If	no, explain in Rem	arks.)		
Are Vegetation,	Soil,	or Hydrology	_ significantly disturb	ed?	Are "No	ormal Circum	stances" present?	Yes 🟒 No		
Are Vegetation,	Soil,	or Hydrology	_ naturally problemat	ic?	(If need	ded, explain a	any answers in Rer	narks.)		

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes No 🟒		
Hydric Soil Present?	Yes No 🟒	Is the Sampled Area within a Wetland?	Yes No 🟒
Wetland Hydrology Present?	Yes No 🟒	lf yes, optional Wetland Site ID:	
Remarks: (Explain alternative procedures her	e or in a separate report)	
TRC covertype is UPL.			
51			

Wetland Hydrology Indicators:		
Primary Indicators (minimum of on	<u>e is required; check all that apply)</u>	Secondary Indicators (minimum of two required)
Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2)	Water-Stained Leaves (B9) Aquatic Fauna (B13) Marl Deposits (B15) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Roots (C3)	 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)
 Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Ima Sparsely Vegetated Concave Su 	 Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Thin Muck Surface (C7) Other (Explain in Remarks) 	 Stunted or Stressed Plants (D1) Geomorphic Position (D2) Shallow Aquitard (D3) Microtopographic Relief (D4) FAC-Neutral Test (D5)
Field Observations:		
Surface Water Present? Water Table Present?	Yes No Depth (inches):	 Wetland Hydrology Present? Yes № ./
Saturation Present?	Yes No Depth (inches):	
(includes capillary fringe)		
Describe Recorded Data (stream ga	auge, monitoring well, aerial photos, previous inspections), if	available:

Sampling Point: W-AJF-03; UPL-1

Tree Stratum (Plot size: 30 ft)	Absolute	Dominant	Indicator	Dominance Test works	heet:		
1	% Cover	Species?	Status	Are OBL, FACW, or FAC	Species That	0	(A)
2				Total Number of Domi	nant Species		(D)
3.				Across All Strata:		Z	(D)
4.				Percent of Dominant S	pecies That	0	(A/B)
5.		· · · ·		Are OBL, FACW, or FAC	:		
6.				Prevalence Index work	sneet:	Multiply	D. a
7.					<u> </u>	<u>v 1 –</u>	<u>ру.</u> О
	0	= Total Cove	er	FACW species	0	× 1	0
Sapling/Shrub Stratum (Plot size: <u>15 ft</u>)				FAC species	0	×3=	0
1				FACLI species	40	×4=	160
2					60	× 5 =	300
3				Column Totals	100	(A)	460 (B)
4				Prevalence li	dev = B/A =	(~) 	400 (D)
5						4.0	
6		. <u> </u>		1 Papid Test for	n indicators:	logotation	
7		. <u> </u>			ryur opriyur v	regetation	
	0	= Total Cove	er	2 - Dominance re	$\frac{1}{100} = \frac{1}{100} = \frac{1}$		
Herb Stratum (Plot size: <u>25 ft. Transect</u>)				5 - Morphologica	l Adaptations	(Provide	supporting
1. Pastnaca sativa	60	Yes	UPL	data in Remarks or on	a separate sh	(i rovide leet)	supporting
2. <i>Solidago canadensis</i>	25	Yes	FACU	Problematic Hydr	rophytic Vege	tation ¹ (E)	(plain)
3. Galium mollugo	15	No	FACU	¹ Indicators of hydric so	oil and wetlan	d hydrolo	gy must be
4		. <u> </u>		present, unless disturb	ed or proble	matic	
5		. <u> </u>		Definitions of Vegetation	on Strata:		
6				Tree – Woody plants 3	in. (7.6 cm) oı	r more in	diameter at
7				breast height (DBH), re	gardless of h	eight.	
8				Sapling/shrub - Woody	y plants less t	han 3 in. I	OBH and
9				greater than or equal t	:o 3.28 ft (1 m) tall.	
10				Herb – All herbaceous	(non-woody)	plants, re	gardless of
11				size, and woody plants	less than 3.2	8 TT TAII.	20.44 :
12				height	dy vines great	ter than 3	.28 IUIN
	100	= Total Cove	er		D (D)	, .	
<u>Woody Vine Stratum</u> (Plot size: <u>30 ft</u>)				Hydrophytic Vegetatic	on Present?	res P	10
1							
2							
3							
4							
	0	= Total Cove	er				
Remarks: (Include photo numbers here or on a separate	e sheet.)						

nches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture		Remarks
0 - 9	10YR 3/3	100					Silt Loam		
9 - 16	10YR 4/4	100							
e: C = C	Concentration, D = I	Depletio	n, RM = Reduced	Matr	rix, MS =	Masked Sand G	rains. ² Locatio	n: PL = Por	e Lining, M = Matrix.
ric Soil	Indicators:						Indi	ators for F	Problematic Hydric Soils ³ :
Histosol	l (A1)		Polyvalue Be	low S	urface (S	8) (LRR R, MLRA	(149B)	cm Muck	(A10) (LRR K, L, MLRA 149B)
Histic Ep Black Hi	Dipedon (A2)		Thin Dark Su	rface / Min	(S9) (LRR oral (E1)	(1498) (100 K 1)	0	Coast Prairi	ie Redox (A16) (LRR K, L, R)
Hvdroge	en Sulfide (A4)		Loamy Gleve	d Ma	trix (F2)		!	cm Mucky	y Peat or Peat (S3) (LRR K, L, R)
Stratifie	d Layers (A5)		Depleted Ma	trix (F	-3)			Dark Surfac	ce (S7) (LRR K, L)
Denlete			I Dodov Dark (urfac	:e (F6)		! 	'olyvalue B	Selow Surface (S8) (LRR K, L)
Jepiele	d Below Dark Suffa) Redux Dark 3						
Thick Da	ark Surface (A12)		Depleted Dark	k Sur	face (F7)			ron Manga	
Thick Da Sandy N	a Below Dark Suffa ark Surface (A12) Aucky Mineral (S1)		Depleted Dark Depleted Dar Redox Depre	'k Sur ssion	face (F7) s (F8)			ron-Manga Piedmont E	anese Masses (F12) (LRR K, L, R) Joodnlain Soils (F19) (MI RA 1498
Thick Da Sandy M Sandy G	d Below Dark Surfa ark Surface (A12) Jucky Mineral (S1) Gleyed Matrix (S4)		Depleted Dar Depleted Dar Redox Depre	k Sur ssion	face (F7) s (F8)			ron-Manga Piedmont F Jesic Spod	anese Masses (F12) (LRR K, L, R) Floodplain Soils (F19) (MLRA 1498 lic (TA6) (MLRA 144A, 145, 1498)
Thick Da Sandy M Sandy G Sandy R	o Below Dark Surfa ark Surface (A12) Aucky Mineral (S1) Gleyed Matrix (S4) Redox (S5)		Depleted Dark	k Sur ssion	face (F7) s (F8)		 ! !	Piedmont F Mesic Spod	anese Masses (F12) (LRR K, L, R) Floodplain Soils (F19) (MLRA 1498 lic (TA6) (MLRA 144A, 145, 149B) Material (F21)
Thick Da Sandy M Sandy G Sandy R Stripped	d Below Dark Surfa ark Surface (A12) Mucky Mineral (S1) Gleyed Matrix (S4) Redox (S5) d Matrix (S6)		Depleted Dark	k Sur ssion	face (F7) s (F8)		 ! !	ron-Manga Piedmont F Aesic Spod Red Parent /ery Shallo	anese Masses (F12) (LRR K, L, R) Floodplain Soils (F19) (MLRA 1498 lic (TA6) (MLRA 144A, 145, 149B) Material (F21) w Dark Surface (TF12)
Thick Da Sandy M Sandy G Sandy R Stripped Dark Su	d Below Dark Suffa ark Surface (A12) Aucky Mineral (S1) Gleyed Matrix (S4) Redox (S5) d Matrix (S6) Irface (S7) (LRR R, M	ILRA 149	Depleted Dark 3	k Sur	face (F7) s (F8)			Piedmont F Piedmont F Mesic Spod Red Parent Very Shallo Dther (Expl	anese Masses (F12) (LRR K, L, R) Floodplain Soils (F19) (MLRA 149B lic (TA6) (MLRA 144A, 145, 149B) Material (F21) w Dark Surface (TF12) lain in Remarks)
Thick Da Sandy M Sandy G Sandy R Stripped Dark Su dicators	o Below Dark Surfa ark Surface (A12) Jucky Mineral (S1) Gleyed Matrix (S4) Redox (S5) d Matrix (S6) Irface (S7) (LRR R, M of hydrophytic veg	ILRA 149	Depleted Dark 3 Depleted Dark 3 Redox Depre	k Sursion	face (F7) s (F8) y must be	e present, unles	 s disturbed or p	ron-Manga Piedmont F Aesic Spod Red Parent /ery Shallo Dther (Expl roblematic	anese Masses (F12) (LRR K, L, R) Floodplain Soils (F19) (MLRA 149B lic (TA6) (MLRA 144A, 145, 149B) Material (F21) w Dark Surface (TF12) ain in Remarks)
Thick Da Sandy M Sandy G Sandy R Stripped Dark Su dicators	o Below Dark Surfa ark Surface (A12) Aucky Mineral (S1) Gleyed Matrix (S4) Redox (S5) d Matrix (S6) Irface (S7) (LRR R, M of hydrophytic vege Laver (if observed):	ILRA 149	Depleted Dark 3 Depleted Dark 3 Redox Depre	k Sursion	face (F7) s (F8) <u>/ must be</u>	e present, unles	 s disturbed or p	ron-Manga Piedmont F Aesic Spod Red Parent Very Shallo Dther (Expl roblematic	anese Masses (F12) (LRR K, L, R) Floodplain Soils (F19) (MLRA 1498 lic (TA6) (MLRA 144A, 145, 149B) Material (F21) w Dark Surface (TF12) lain in Remarks)
Thick Da Sandy M Sandy C Sandy R Stripped Dark Su <u>dicators</u> trictive I	o Below Dark Surfa ark Surface (A12) Aucky Mineral (S1) Gleyed Matrix (S4) Redox (S5) d Matrix (S6) Irface (S7) (LRR R, M of hydrophytic vege Layer (if observed): Type:	ILRA 149	Depleted Dark 3 Depleted Dark 3 Redox Depre Redox Depre Redox Depre None	k Sursion	face (F7) s (F8) <u>/ must be</u>	e present, unles	 s disturbed or p	ron-Manga Piedmont F Aesic Spod Red Parent Very Shallo Other (Expl roblematic	anese Masses (F12) (LRR K, L, R) Floodplain Soils (F19) (MLRA 1498 lic (TA6) (MLRA 144A, 145, 149B) Material (F21) w Dark Surface (TF12) ain in Remarks)
Thick Da Sandy M Sandy G Sandy R Stripped Dark Su <u>licators</u> trictive l	a Below Dark Surfa ark Surface (A12) Aucky Mineral (S1) Sleyed Matrix (S4) Redox (S5) d Matrix (S6) Inface (S7) (LRR R, M of hydrophytic veg Layer (if observed): Type: Depth (inches):	ILRA 149	Depleted Dark Depleted Dark Redox Depre Redox Depre Redox Depre None	k Sur ssion	face (F7) s (F8) / must be	e present, unles	 s disturbed or p	Yes	anese Masses (F12) (LRR K, L, R) Floodplain Soils (F19) (MLRA 1498 lic (TA6) (MLRA 144A, 145, 1498) Material (F21) w Dark Surface (TF12) fain in Remarks)
Fhick Da Sandy M Sandy G Sandy R Sandy R Stripped Dark Su icators icators	d Below Dark Surfa ark Surface (A12) Aucky Mineral (S1) Sleyed Matrix (S4) Redox (S5) d Matrix (S6) Inface (S7) (LRR R, M of hydrophytic veg Layer (if observed): Type: Depth (inches):	ILRA 149	Pepleted Dark 3 Depleted Dark 3 Redox Depre Redox Depre Redox Depre None	k Sur ssion	face (F7) s (F8) <u>/ must be</u>	e present, unles Hydric Soil Pre	 s disturbed or p	Yes	anese Masses (F12) (LRR K, L, R) Floodplain Soils (F19) (MLRA 1498 lic (TA6) (MLRA 144A, 145, 1498) Material (F21) w Dark Surface (TF12) lain in Remarks)
Gandy M Gandy M Gandy G Gandy R Gandy R C Gandy R Gandy R C C C C C C C C C C C C C C C C C C C	d Below Dark Surfa ark Surface (A12) Aucky Mineral (S1) Gleyed Matrix (S4) Redox (S5) d Matrix (S6) Irface (S7) (LRR R, M of hydrophytic veg Layer (if observed): Type: Depth (inches):	ILRA 149	Depleted Dark 3 Depleted Dar Redox Depre 9B) and wetland hydr None	k Sur ssion	face (F7) s (F8) / must be	e present, unles	 s disturbed or p	Yini Dark S ron-Manga Piedmont F Mesic Spod Red Parent (ery Shallo Dther (Expl roblematic	anese Masses (F12) (LRR K, L, R) Floodplain Soils (F19) (MLRA 1498 lic (TA6) (MLRA 144A, 145, 1498) Material (F21) w Dark Surface (TF12) lain in Remarks)
Gandy M Gandy M Gandy G Gandy R Gandy R C C R Gandy R C C R C C C C C C C C C C C C C C C C	o Below Dark Surfa ark Surface (A12) Aucky Mineral (S1) Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) (LRR R, M <u>of hydrophytic veg</u> Layer (if observed): Type: Depth (inches):	ILRA 149	Pepleted Dark 3 Depleted Dark 3 Redox Depre	k Sur ssion	face (F7) s (F8) <u>/ must be</u>	e present, unles	 s disturbed or p	Yini Dark S ron-Manga Piedmont F Mesic Spod Red Parent (ery Shallo Dther (Expl roblematic Yes	anese Masses (F12) (LRR K, L, R) Floodplain Soils (F19) (MLRA 149B lic (TA6) (MLRA 144A, 145, 149B) Material (F21) w Dark Surface (TF12) lain in Remarks)
Gandy M Gandy M Gandy R Gandy R Gandy R Gandy R Gandy R Cators rictive I arks:	o Below Dark Surfa ark Surface (A12) Aucky Mineral (S1) Gleyed Matrix (S4) Redox (S5) d Matrix (S6) Irface (S7) (LRR R, M <u>of hydrophytic veg</u> Layer (if observed): Type: Depth (inches):	ILRA 149	Pepleted Dark 3 Depleted Dark 3 Redox Depre	k Sur ssion rolog	face (F7) s (F8) / must be	e present, unles Hydric Soil Pre	 s disturbed or p	ron-Manga Piedmont F Mesic Spod Red Parent /ery Shallo Dther (Expl roblematic	anese Masses (F12) (LRR K, L, R) Floodplain Soils (F19) (MLRA 149B lic (TA6) (MLRA 144A, 145, 149B) Material (F21) w Dark Surface (TF12) lain in Remarks)
hick Da andy M Gandy C Gandy R Gripped Dark Su cators rictive I arks:	o Below Dark Surfa ark Surface (A12) Aucky Mineral (S1) Gleyed Matrix (S4) Redox (S5) d Matrix (S6) Irface (S7) (LRR R, M <u>of hydrophytic veg</u> Layer (if observed): Type: Depth (inches):	ILRA 149	Pepleted Dark Depleted Dark Redox Depre	k Sur ssion	face (F7) s (F8) / must be	e present, unles Hydric Soil Pre	 s disturbed or p	Yini Dark S ron-Manga Piedmont F Mesic Spod Red Parent /ery Shallo Dther (Expl roblematic Yes	anese Masses (F12) (LRR K, L, R) Floodplain Soils (F19) (MLRA 149B lic (TA6) (MLRA 144A, 145, 149B) Material (F21) w Dark Surface (TF12) lain in Remarks)
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Vegetation Photos



Soil Photos

Project/Site: High Rive	er	Ci	ty/County: Amste	rdam,				Sampling Date	: 2017-July-17
Applicant/Owner: N	lextEra				State:	New York		Sampling Point:	W-AJF-04; PEM-1
Investigator(s): Anth									
Landform (hillslope, te	rrace, etc.):	Swale	Lo	ocal relief	(concave,	convex, no	one):	Concave	Slope (%): 2-5
Subregion (LRR or MLF	RA): LRR L	-		Lat:	42.895857	74 L	ong:	-74.1214357	Datum: WGS84
Soil Map Unit Name:	Appleton silt	loam, 3 to 8 perce	ent slopes (ApB)					NWI classifi	ication:
Are climatic/hydrologic	c conditions or	the site typical fo	r this time of year	?	Yes 🟒	_No	(If no	o, explain in Rema	arks.)
Are Vegetation,	Soil,	or Hydrology	significantly distu	urbed?	Are "N	ormal Circ	ums	tances" present?	Yes 🟒 No
Are vegetation,	5011,	or Hyarology	_ naturally problem	natic?	(If nee	ded, expla	in an	y answers in Rem	harks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes 🖌 No	Is the Sampled Area within a Wetland?	Ves / No
Wetland Hydrology Present?	Yes _ No	If yes, optional Wetland Site ID:	W-AJF-04
Remarks: (Explain alternative procedure	s here or in a separate rep	ort)	
TRC covertype is PEM.			

Wetland Hydrology Indicators:				
Primary Indicators (minimum of or	e is required; check a	all that apply)		Secondary Indicators (minimum of two required)
 Surface Water (A1) High Water Table (A2) ✓ Saturation (A3) Water Marks (B1) Sediment Deposits (B2) 	Wat Aqu Mar Hyd Oxio	er-Stained Leaves (B9) atic Fauna (B13) l Deposits (B15) rogen Sulfide Odor (C1) dized Rhizospheres on Living	Roots (C3)	 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)
Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Ima Sparsely Vegetated Concave Su	Pres Rece Thir agery (B7) Othe rface (B8)	sence of Reduced Iron (C4) ent Iron Reduction in Tilled So n Muck Surface (C7) er (Explain in Remarks)	oils (C6)	 Stunted or Stressed Plants (D1) Geomorphic Position (D2) Shallow Aquitard (D3) Microtopographic Relief (D4) FAC-Neutral Test (D5)
Field Observations:				
Surface Water Present?	Yes No 🟒	Depth (inches):		
Water Table Present?	Yes No 🟒	Depth (inches):		Wetland Hydrology Present? Yes No
Saturation Present?	Yes 🟒 No	Depth (inches):	6	-
(includes capillary fringe)				
Describe Recorded Data (stream g	auge, monitoring well	l, aerial photos, previous insp	ections), if	available:

Sampling Point: W-AJF-04; PEM-1

Tree Stratum (Plot size: 30 ft.)	Absolute	Dominant	Indicator	Dominance Test worksh	neet:		
	% Cover	Species?	Status	Number of Dominant S Are OBL, FACW, or FAC:	pecies That	2	(A)
2.		· ·		Total Number of Domin	ant Species	2	(B)
3.				Across All Strata:			
4.				Percent of Dominant Sp - Are OBL_FACW_or FAC	becies That	100	(A/B)
5				Prevalence Index works	heet:		
6				- Total % Cover	of:	Multiply	Bv:
7				- OBL species	0	x 1 =	0
	0	= Total Cov	er	FACW species	85	x 2 =	170
Sapling/Shrub Stratum (Plot size: <u>15 ft</u>)				FAC species	0	x 3 =	0
1				FACU species	10	x 4 =	40
2				- UPL species	0	x 5 =	0
3				- Column Totals	95	(A)	210 (B)
4				Prevalence In	dex = B/A =	2.2	210 (8)
5				Hydrophytic Vegetation	Indicators:		;
6				1- Rapid Test for H	lydrophytic V	/egetation	
7				2 - Dominance Tes	st is >50%	0	
	0	= Total Cov	er	3 - Prevalence Inde	ex is $\leq 3.0^1$		
Herb Stratum (Plot size: <u>25 ft. Transect</u>)				4 - Morphological	Adaptations	(Provide	supporting
1. <u>Phalaris arundinacea</u>	60	Yes	FACW	data in Remarks or on a	separate sh	neet)	
2. Agrostis stolonifera	25	Yes	FACW	Problematic Hydro	ophytic Vege	tation ¹ (Ex	plain)
3. <u>Trifolium pratense</u>	10	No	FACU	¹ Indicators of hydric soi	l and wetlan	d hydrolog	gy must be
4				present, unless disturbe	ed or problei	matic	
5				Definitions of Vegetatio	n Strata:		
6				Tree – Woody plants 3 i	n. (7.6 cm) oi	r more in o	diameter at
7				breast height (DBH), reg	gardless of h	eight.	
8				Sapling/shrub - Woody	plants less t	han 3 in. D	OBH and
9				greater than or equal to	o 3.28 ft (1 m) tall.	
10				Herb – All herbaceous (non-woody)	plants, reg	gardless of
11				size, and woody plants	less than 3.2	8 ft tall.	
12				Woody vines – All wood	y vines great	ter than 3.	28 ft in
	95	= Total Cov	er	neight.			
Woody Vine Stratum (Plot size: <u>30 ft</u>)				Hydrophytic Vegetation	n Present?	/es 🟒 N	lo
1.							
2.							
3.							
4.				-			
	0	= Total Cov	er	-			
Remarks: (Include photo numbers here or on a separate	sheet)	-					
	JICCL)						

04 10YR 3/1 100	0 - 4	Color (moist)	%	Color (moist)	%	Type ¹	Loc ² 1	exture	Remarks
- 16 10YR 4/2 85 7.5YR 5/8 Silt Loam - 16 10YR 4/2 85 7.5YR 5/8 Silt Loam - 16 10YR 4/2 85 7.5YR 5/8 Silt Loam - 16 10YR 4/2 85 7.5YR 5/8 Silt Loam - 16 10YR 4/2 85 7.5YR 5/8 Silt Loam - 16 - 10YR 4/2 85 7.5YR 5/8 Silt Loam - 16 - 10YR 4/2 85 7.5YR 5/8 Silt Loam - 16 - 10YR 4/2 - 10YR 4/2 - 10YR 4/2 - 10YR 4/2 - 16 - 10YR 4/2 - 10YR 4/2 - 10YR 4/2 - 10YR 4/2 - 16 - 10YR 4/2 - 10YR 4/2 - 10YR 4/2 - 10YR 4/2 - 17 - 10YR 4/2 - 10YR 4/2 - 10YR 4/2 - 10YR 4/2 - 16 - 10YR 4/2 - 10YR 4/2 - 10YR 4/2 - 10YR 4/2 - 16 - 10YR 4/2 - 10YR 4/2 - 10YR 4/2 - 10YR 4/2 - 16 - 10YR 4/2 - 10YR 4/2 - 10YR 4/2 - 10YR 4/2 - 16 - 10YR 4/2 - 10YR 4/2 - 10YR 4/2		10YR 3/1	100		·		Si	lt Loam	
be: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. ² Location: PL = Pore Lining, M = Matrix. Indicators: Indicators for Problematic Hydric Soils? Histic Epipedon (A2)	4 - 16	10YR 4/2	85	7.5YR 5/8	-		Si	lt Loam	
minipulation minipulation minipulatindic minipulation <tr< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr<>									
De: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. ?Location: PL = Pore Lining, M = Matrix. Indicators: Indicators for Problematic Hydric Soils* Histosol (A1) Polyvalue Below Surface (S8) (LRR R, MLRA 149B) Histosol (A2) Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Stratified Layers (A5) Ø Depleted Matrix (F3) Depleted Below Dark Surface (A11) Redox Dark Surface (F6) Thic Abrak Surface (A12) Depleted Dark Surface (F7) Sandy Mcky Mineral (S1) Redox Depressions (F8) Sandy Redox (S5) Bark Hares (S6) Stripped Matrix (S6) Red Parent Material (F21) Dark Surface (S7) (LRR R, MLRA 149B) Very Shallow Dark Surface (T12) Dark Surface (S7) Red Parent Material (F21) Stripped Matrix (S6) Red Parent Material (F21) Dark Surface (f) Observed): Type: Type: None Deptet (inches): None Peth (inches): Hydric Soil Present? Yes No			·		· —				
be: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. ² Location: PL = Pore Lining, M = Matrix. Indicators: Indicators (Poblematic Hydric Soils ³ : Histosol (A1)	·				· —				
De: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. ² Location: PL = Pore Lining, M = Matrix. Iric Soil Indicators: Indicators for Problematic Hydric Soils?: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, MLRA 149B) 2 cm Muck (A10) (LRR K, L, MLRA 149B) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) S cm Mucky Peat or Peat (S3) (LRR K, L R) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Dark Surface (S6) (LRR K, L) Stratified Layers (A5) Depleted Matrix (F3) Doylalue Below Surface (F6) Thic Dark Surface (A11) Redox Dark Surface (F6) Thin Dark Surface (S9) (LRR K, L) Sandy Mucky Mineral (S1) Redox Depressions (F8) Neice (S5) (LRR K, L, R) Sandy Redox (S5)									
De: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. ² Location: PL = Pore Lining, M = Matrix. Indicators: Indicators: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, MLRA 149B) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) (LRR K, L) Stratified Layers (A5) Depleted Matrix (F2) Depleted Below Dark Surface (A11) Redox Dark Surface (F6) Thick Dark Surface (A12) Depleted Dark Surface (F7) Sandy Mucky Mineral (S1) Redox Depressions (F8) Sandy Redox (S5)	·		·		· —		·		
De: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. ² Location: PL = Pore Lining, M = Matrix. Iric Soil Indicators: Indicators for Problematic Hydric Soils ² : Histosol (A1) Polyvalue Below Surface (S8) (LRR R, MLRA 149B) 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histic Epipedon (A2) Thin Dark Surface (S9) (LRR R, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Stratified Layers (A5) Depleted Matrix (F2) Dark Surface (S7) (LRR K, L) Stratified Layers (A5) Depleted Dark Surface (F6)					_				
be: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. *Location: PL = Pore Lining, M = Matrix. Iric Soil Indicators: Indicators for Problematic Hydric Soils*: Histosol (A1) Polyvalue Below Surface (S9) (LRR R, MLRA 149B) Histic Epipedon (A2) Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Stratified Layers (A5) ✓ Depleted Matrix (F3) Depleted Below Dark Surface (A11) Redox Dark Surface (F6) Thin Dark Surface (A12) Depleted Dark Surface (F7) Sandy Gleyed Matrix (S4) Inor-Manganese Masses (F12) (LRR K, L) Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 1448B) Stripped Matrix (S6) Red Parent Material (F21) Dark Surface (S7) (LRR R, MLRA 149B) Nesic Spodic (TA6) (MLRA 144A, 145, 149B) Stripped Matrix (S6) Red Parent Material (F21) Dark Surface (S7) (LRR R, MLRA 149B) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Piedmont Floodplain Soils (F19) Stripped Matrix (S6) Piedmont Floodplain in Remarks) Licators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. trictive Layer (If observed): Type: Depth (inches): None Depth (inches): Hydric Soil Present? Yes Yes No			·		· —				
tric Soil Indicators: Indicators for Problematic Hydric Soils ³ : Histosol (A1) Polyvalue Below Surface (S8) (LRR R, MLRA 149B) Histic Epipedon (A2)	pe: C = C	oncentration, D =	Depletic	on, RM = Reduced	Mat	rix, MS =	Masked Sand Gra	ns. ² Locatio	- PL = Pore Lining, M = Matrix.
Histosol (A1)Polyvalue Below Surface (S8) (LRR R, MLRA 149B) Histic Epipedon (A2)Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3)Loamy Mucky Mineral (F1) (LRR K, L) Hydrogen Sulfide (A4)Loamy Mucky Mineral (F1) (LRR K, L) Stratified Layers (A5)Depleted Matrix (F2) Depleted Below Dark Surface (A11)Redox Dark Surface (F7) Thin Dark Surface (A12)Depleted Dark Surface (F7) Sandy Mucky Mineral (S1)Redox Depressions (F8) Sandy Redox (S5)Mean Mucka 149B) Stripped Matrix (S6)Needom and wetland hydrology must be present, unless disturbed or problematic. Trictive Layer (if observed):None Type:None Depth (inches):None	Iric Soil I	ndicators:						Indic	ators for Problematic Hydric Soils ³ :
Index Epiperdam (v.E) Index Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) Stratified Layers (A5) Very Shallow Dark Surface (A11) Redox Depleted Matrix (F3) Depleted Below Dark Surface (A11) Redox Depressions (F8) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Iicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Trype: None Depth (inches): Part Mark Surface (S2) (LRR K, L, R) Present? Yes No	Histosol Histic Fr	(A1) hipedon (A2)		Polyvalue Bel	low S rface	urface (S (S9) (I RR	8) (LRR R, MLRA 1	49B) 2	cm Muck (A10) (LRR K, L, MLRA 149B)
Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) S th Mucky Peat of Peat (S3) (LRR K, L, K) Stratified Layers (A5) Depleted Matrix (F3) Dark Surface (S7) (LRR K, L) Depleted Below Dark Surface (A11) Redox Dark Surface (F6) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Depleted Dark Surface (F7) Thin Dark Surface (S9) (LRR K, L, R) Sandy Mucky Mineral (S1) Redox Depressions (F8) Iron-Manganese Masses (F12) (LRR K, L, R) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Iron-Manganese Masses (F12) (LRR K, L, 149B) Sandy Redox (S5) Red Parent Material (F21) Nersion (T66) (MLRA 144A, 145, 149B) Surface (S7) (LRR R, MLRA 149B) Nersion (T60) (MLRA 144A, 145, 149B) Nersion (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Nersion (T60) (MLRA 144A, 145, 149B)	Black Hi	stic (A3)		Loamy Mucky	y Mir	eral (F1)	(LRR K, L)	C	oast Prairie Redox (A16) (LRR K, L, R)
Stratified Layers (A5) Depleted Matrix (F3) Depleted Below Dark Surface (A11)	_ Hydroge	en Sulfide (A4)		Loamy Gleye	, d Ma	trix (F2)		5	CM MUCKY Peat of Peat (S3) (LRR K, L, R)
Depleted Below Dark Surface (A11) Redox Dark Surface (F6)	Stratified	d Layers (A5)		_✓ Depleted Ma	trix (l	F3)		L	olyvalue Below Surface (S8) (I PP K 1)
Thick Dark Surface (A12)	Depleted	d Below Dark Surfa	ace (A11) Redox Dark S	Surfa	ce (F6)		י' ד	hin Dark Surface (S9) (I RR K 1)
Sandy Mucky Mineral (S1)	Thick Da	irk Surface (A12)		Depleted Dar	'k Su	rface (F7)		י י וו	ron-Manganese Masses (F12) (I RR K R)
Sandy Gleyed Matrix (S4)	Sandy M	lucky Mineral (S1)		Redox Depre	ssior	ns (F8)		''	iedmont Eloodolain Soils (E19) (MI RA 1498)
Sandy Redox (S5)	Sandy G	leyed Matrix (S4)						'	Mesic Spodic (TA6) (MI RA 144A 145 149B)
Stripped Matrix (S6)	Sandy R	edox (S5)						N	ed Parent Material (E21)
Dark Surface (S7) (LRR R, MLRA 149B)	- ,							[
licators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. trictive Layer (if observed): Type:NoneHydric Soil Present? Yes _✓_ No Depth (inches):	_ Stripped	Matrix (S6)						V	ery Shallow Dark Surface (TE12)
trictive Layer (if observed): Type:NoneHydric Soil Present? Yes _∠ No Depth (inches):	_ Strippec _ Dark Su	l Matrix (S6) rface (S7) (LRR R, M	ILRA 14	9B)				v	ery Shallow Dark Surface (TF12))ther (Explain in Remarks)
Type: None Depth (inches): Present? Yes _ No No No No No No No No No No No No	_ Strippec _ Dark Sui dicators o	l Matrix (S6) rface (S7) (LRR R, M of hydrophytic veg	ILRA 14	9B) and wetland hydr	olog	y must be	e present, unless	v C C C listurbed or pi	ery Shallow Dark Surface (TF12))ther (Explain in Remarks) roblematic.
Depth (inches):	_ Strippec _ Dark Sun dicators of strictive L	l Matrix (S6) rface (S7) (LRR R, M of hydrophytic veg .ayer (if observed):	ILRA 14	9B) and wetland hydr	olog	y must be	e present, unless (V C listurbed or pl	ery Shallow Dark Surface (TF12))ther (Explain in Remarks) roblematic.
narks:	Strippec Dark Sun dicators of strictive L	l Matrix (S6) rface (S7) (LRR R, M of hydrophytic veg .ayer (if observed): Type:	ILRA 14	9B) and wetland hydr None	olog	y must be	e present, unless (Hydric Soil Prese	V C listurbed or pr nt?	ery Shallow Dark Surface (TF12) Other (Explain in Remarks) roblematic. Yes No
	Strippec Dark Sud dicators of strictive L	l Matrix (S6) rface (S7) (LRR R, M of hydrophytic veg .ayer (if observed): Type: Depth (inches):	ILRA 14	9 B) and wetland hydr None	olog	y must be	e present, unless o Hydric Soil Prese	V C disturbed or pi nt?	ery Shallow Dark Surface (TF12) Other (Explain in Remarks) roblematic. Yes No
	Strippec Dark Su dicators o strictive L marks:	l Matrix (S6) rface (S7) (LRR R, M of hydrophytic veg .ayer (if observed): Type: Depth (inches):	ILRA 14	9 B) and wetland hydr None	olog	y must be	e present, unless (Hydric Soil Prese	v c listurbed or p nt?	ery Shallow Dark Surface (TF12) Other (Explain in Remarks) roblematic. Yes No
	Strippec Dark Su dicators of strictive L marks:	l Matrix (S6) rface (S7) (LRR R, M of hydrophytic veg .ayer (if observed): Type: Depth (inches):	ILRA 14	9 B) and wetland hydr None	olog	y must be	e present, unless (Hydric Soil Prese	v C listurbed or p nt?	ery Shallow Dark Surface (TF12) Other (Explain in Remarks) roblematic. Yes No
	Strippec Dark Su dicators o trictive L narks:	l Matrix (S6) rface (S7) (LRR R, M of hydrophytic veg .ayer (if observed): Type: Depth (inches):	ILRA 14	9 B) and wetland hydr None	olog	y must be	e present, unless (Hydric Soil Prese	v C listurbed or p nt?	ery Shallow Dark Surface (TF12) Other (Explain in Remarks) roblematic. Yes _ ✓_ No
	Strippec Dark Su dicators d trictive L narks:	l Matrix (S6) rface (S7) (LRR R, M of hydrophytic veg .ayer (if observed): Type: Depth (inches):	ILRA 14	9 B) and wetland hydr None	olog	y must be	e present, unless (Hydric Soil Prese	v C listurbed or p nt?	ery Shallow Dark Surface (TF12) Other (Explain in Remarks) roblematic. Yes _ ✓_ No
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	Strippec Dark Su dicators (trictive L narks:	l Matrix (S6) rface (S7) (LRR R, M of hydrophytic veg .ayer (if observed): Type: Depth (inches):	ILRA 14	9 B) and wetland hydr None	olog	y must be	e present, unless (Hydric Soil Prese	v C listurbed or p nt?	ery Shallow Dark Surface (TF12) other (Explain in Remarks) roblematic. Yes No
	Strippec Dark Su dicators (strictive L marks:	l Matrix (S6) rface (S7) (LRR R, M of hydrophytic veg .ayer (if observed): Type: Depth (inches):	ILRA 14	9 B) and wetland hydr None	olog	y must be	e present, unless (Hydric Soil Prese	v C listurbed or p nt?	ery Shallow Dark Surface (TF12) other (Explain in Remarks) roblematic. Yes No
	Strippec Dark Su dicators (strictive L marks:	l Matrix (S6) rface (S7) (LRR R, M of hydrophytic veg .ayer (if observed): Type: Depth (inches):	ILRA 14	9 B) and wetland hydr None	olog	y must be	e present, unless (Hydric Soil Prese	v C disturbed or p nt?	ery Shallow Dark Surface (TF12) other (Explain in Remarks) roblematic. Yes No
	Strippec Dark Su dicators (strictive L	l Matrix (S6) rface (S7) (LRR R, M of hydrophytic veg .ayer (if observed): Type: Depth (inches):	ILRA 14	9 B) and wetland hydr None	olog	y must be	e present, unless (Hydric Soil Prese	V C disturbed or pi nt?	ery Shallow Dark Surface (TF12) other (Explain in Remarks) roblematic. Yes _∠_ No
	Strippec Dark Su dicators (strictive L marks:	l Matrix (S6) rface (S7) (LRR R, M of hydrophytic veg .ayer (if observed): Type: Depth (inches):	ILRA 14	9 B) and wetland hydr None	olog	y must be	e present, unless (Hydric Soil Prese	V C disturbed or pi nt?	ery Shallow Dark Surface (TF12) other (Explain in Remarks) roblematic. Yes _∠_ No
	Strippec Dark Su dicators (strictive L marks:	l Matrix (S6) rface (S7) (LRR R, M of hydrophytic veg .ayer (if observed): Type: Depth (inches):	ILRA 14	9 B) and wetland hydr None	olog	y must be	e present, unless (Hydric Soil Prese	V C disturbed or pi nt?	ery Shallow Dark Surface (TF12) other (Explain in Remarks) roblematic. Yes _∠_ No
	_ Strippec _ Dark Su dicators (strictive L marks:	l Matrix (S6) rface (S7) (LRR R, M of hydrophytic veg .ayer (if observed): Type: Depth (inches):	1LRA 14	9 B) and wetland hydr None	olog	y must be	e present, unless o	V C disturbed or pi nt?	ery Shallow Dark Surface (TF12) other (Explain in Remarks) roblematic. Yes _∠_ No
	_ Strippec _ Dark Su dicators (strictive L marks:	l Matrix (S6) rface (S7) (LRR R, M of hydrophytic veg .ayer (if observed): Type: Depth (inches):	1LRA 14	9 B) and wetland hydr None	olog	y must be	e present, unless o	v C disturbed or pi nt?	ery Shallow Dark Surface (TF12) other (Explain in Remarks) roblematic. Yes _∠_ No
	_ Strippec _ Dark Su dicators (strictive L marks:	l Matrix (S6) rface (S7) (LRR R, M of hydrophytic veg .ayer (if observed): Type: Depth (inches):	1LRA 14	9 B) and wetland hydr None	olog	y must be	e present, unless o	v C <u>disturbed or p</u> nt?	ery Shallow Dark Surface (TF12) other (Explain in Remarks) roblematic. Yes _∠_ No
	Strippec Dark Su dicators (strictive L marks:	l Matrix (S6) rface (S7) (LRR R, M of hydrophytic veg .ayer (if observed): Type: Depth (inches):	ILRA 14	9 B) and wetland hydr None	rolog	y must be	e present, unless o	v C listurbed or pi nt?	ery Shallow Dark Surface (TF12) other (Explain in Remarks) roblematic. Yes _∠_ No
	Strippec Dark Su dicators (strictive L marks:	l Matrix (S6) rface (S7) (LRR R, M of hydrophytic veg .ayer (if observed): Type: Depth (inches):	ILRA 14	98) and wetland hydr None	olog	y must be	e present, unless (Hydric Soil Prese	v C listurbed or pi nt?	ery Shallow Dark Surface (TF12) other (Explain in Remarks) roblematic. Yes _∠_ No

Photo of Sample Plot



Project/Site: High Rive	er	City	//County: Amsterdan	n,			Sampling Date	2017-July-17
Applicant/Owner: N	extEra			St	ate:	New York	Sampling Point:	W-AJF-04; UPL-1
Investigator(s): Anth	ony Froonjian	, AJW		Section, T	ownsł	nip, Range:		
Landform (hillslope, ter	rrace, etc.):	Тое	Local ı	relief (conc	ave, co	onvex, none):	Convex	Slope (%): 2-5
Subregion (LRR or MLR	RA): LRR L	-		Lat: 42.89	958569	9 Long:	-74.1214635	Datum: WGS84
Soil Map Unit Name:	Appleton silt	loam, 3 to 8 percer	nt slopes (ApB)				NWI classifi	cation:
Are climatic/hydrologic	conditions or	the site typical for	this time of year?	Yes	1	No (If n	o, explain in Rema	arks.)
Are Vegetation,	Soil,	or Hydrology	significantly disturbed	d? Ar	re "No	rmal Circums	stances" present?	Yes 🟒 No
Are Vegetation,	Soil,	or Hydrology	naturally problematic	:? (If	need	ed, explain aı	ny answers in Rem	narks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes No 🟒		
Hydric Soil Present?	Yes No 🟒	Is the Sampled Area within a Wetland?	Yes No 🟒
Wetland Hydrology Present?	Yes No _	lf yes, optional Wetland Site ID:	
Remarks: (Explain alternative procedures here	re or in a separate report)	
TRC covertype is UPL.			

Wetland Hydrology Indicators:		
Primary Indicators (minimum of on	e is required; check all that apply)	Secondary Indicators (minimum of two required)
 Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) 	Water-Stained Leaves (B9) Aquatic Fauna (B13) Marl Deposits (B15) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Roots (C3)	 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)
Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Ima Sparsely Vegetated Concave Sui	 Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Thin Muck Surface (C7) Other (Explain in Remarks) 	
Field Observations:		
Surface Water Present?	Yes No Depth (inches):	
Water Table Present?	Yes No Depth (inches):	– Wetland Hydrology Present? Yes №
Saturation Present?	Yes No Depth (inches):	-
(includes capillary fringe)		-
Describe Recorded Data (stream ga	auge, monitoring well, aerial photos, previous inspections), if	available:

Sampling Point: W-AJF-04; UPL-1

<u>Tree Stratum</u> (Plot size: <u>30 ft</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test works	sheet: Species That		
1		- species.	Status	Are OBL, FACW, or FAC		0	(A)
2				Total Number of Domi	nant Species		(=)
2				Across All Strata:		2	(B)
	<u></u>			Percent of Dominant S	pecies That	0	(A /D)
ч. 				Are OBL, FACW, or FAC	:	0	(A/ B)
6				 Prevalence Index work 	sheet:		
7				- <u>Total % Cover</u>	<u>of:</u>	<u>Multiply</u>	<u>' By:</u>
7		- Total Cau		– OBL species	0	x 1 =	0
Caulin - (Church Church und (Distrainen 45 ft)	0		er	FACW species	15	x 2 =	30
<u>Sapling/Shrub Stratum</u> (Plot size: <u>15 ft</u>)				FAC species	0	x 3 =	0
1				– FACU species	85	x 4 =	340
2.				 UPL species 	0	x 5 =	0
3				– Column Totals	100	(A)	370 (B)
4				Prevalence I	ndex = B/A =	3.7	
5				- Hydrophytic Vegetatio	n Indicators:		
6				- 1- Rapid Test for	Hvdrophytic V	/egetatior	า
7				- 2 - Dominance Te	st is > 50%	egetation	
	0	= Total Cov	er	3 - Prevalence Inc	dex is $< 3.0^{1}$		
<u>Herb Stratum</u> (Plot size: <u>25 ft. Transect</u>)				4 - Morphologica	l Adaptations	1 (Provide	supporting
1. <i>Erigeron annuus</i>	40	Yes	FACU	 data in Remarks or on 	a separate sh	neet)	Supporting
2. <i>Dactylis glomerata</i>	35	Yes	FACU	Problematic Hvd	rophytic Vege	tation ¹ (E	xplain)
3. <i>Phalaris arundinacea</i>	15	No	FACW	Indicators of hydric so	bil and wetlan	d hydrolc	bgy must be
4. Galium mollugo	10	No	FACU	present, unless distur	ped or proble	matic	0)
5				Definitions of Vegetati	on Strata:		
6.				Tree – Woody plants 3	in. (7.6 cm) oi	r more in	diameter at
7.				breast height (DBH), re	egardless of h	eight.	
8.				Sapling/shrub - Wood	y plants less t	han 3 in.	DBH and
9.				greater than or equal	to 3.28 ft (1 m) tall.	
10.	·			Herb – All herbaceous	(non-woody)	plants, re	gardless of
11.				size, and woody plants	less than 3.2	8 ft tall.	
12.	·			Woody vines – All woo	dy vines great	ter than 3	8.28 ft in
	100	= Total Cov	er	height.			
Woody Vine Stratum (Plot size: 30 ft)		-	C1	Hydrophytic Vegetatio	on Present?	Yes I	No 🟒
1							
2				-			
2				-			
3.	·			-			
4.				-			
	()	= 10 fal (0 v	rer				

Situ Loam Situ Loam -14 10YR 3/4 100 -14 10YR 5/4 100 Situ Loam Situ Loam	inches)	Color (moist)	%	Color (moist)	%	Type ¹	L OC ²	Texture		Remarks
-14 10YR 5/4 100	0 - 5	10YR 3/4	100					Silt Loam		
be: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. ² Location: PL = Pore Lining, M = Matrix. Indicators: Indicators for Problematic Hydric Soils?: Histosol (A1)	5 - 14	10YR 5/4	100		·	·		Silt Loam		
be: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. ² Location: PL = Pore Lining, M = Matrix. Indicators: Indicators for Problematic Hydric Soils?: Histic Soil Indicators: Indicators for Problematic Hydric Soils?: Histic Epipedon (A2) Thin Dark Surface (S8) (LRR R, MLRA 149B) Loamy Mucky Mineral (F1) (LRR K, L) S cm Muck (A10) (LRR K, L, R) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) Stratified Layers (A5) Depleted Matrix (F3) Depleted Below Dark Surface (A11) Redox Depressions (F8) Sandy Gleyed Matrix (S4) Depleted Dark Surface (F7) Sandy Redox (S5) Redox Depressions (F8) Strigted Matrix (S6) Red Parent Material (F21) Dark Surface (S7) (LRR R, MLRA 149B) Very Shallow Dark Surface (F12) Dark Surface (S7) (LRR R, MLRA 149B) Very Shallow Dark Surface (F12) Strigted Matrix (S6) Red Parent Material (F21) Dark Surface (S7) (LRR R, MLRA 149B) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Very Shallow Dark Surface (TF12) Strigted Matrix (S6) Red Parent Material (F21) Very Shallow Dark Surface (T7) Hydric Soil Present? Yee: None										
De: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. ² Location: PL = Pore Lining, M = Matrix. Indicators: Indicators for Problematic Hydric Soils ³ : Histosol (A1) Polyvalue Below Surface (S8) (LRR R, MLRA 149B) 2 cm Muck (A10) (LRR K, L, MLRA 149B) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) 5 cm Mucky Peat or Peat (S3) (LRR K, L) Pydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Dark Surface (S7) (LRR K, L) Depleted Bow Dark Surface (A11) Redox Dark Surface (F6) Thin Dark Surface (F6) Thick Dark Surface (S1) Depleted Dark Surface (F7) Thin Dark Surface (S9) (LRR K, L) Sandy Mucky Mineral (S1) Redox Dark Surface (F6) Thin Dark Surface (S9) (LRR K, L) Sandy Gleyed Matrix (S4) Depleted Dark Surface (F7) Thin Dark Surface (S9) (LRR K, L) Sandy Gleyed Matrix (S4) Mesic Spodic (TA6) (MLRA 149E) Red Parent Material (F1) (LRA K, L, R) Sandy Redox (S5) Mesic Spodic (TA6) (MLRA 149E) Very Shallow Dark Surface (TF12) Stripped Matrix (S6) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) Licators of hydrophytic vegetation and wetland hydrology must be present,										
De: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. *Location: PL = Pore Lining, M = Matrix. Indicators: Indicators for Problematic Hydric Soils*: Histosol (A1) Polyvalue Below Surface (S9) (LRR R, MLRA 149B) Bick Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) (LRR K, L) Depleted Matrix (F2) Dark Surface (S9) (LRR R, MLRA 149B) Stratified Layers (A5) Depleted Matrix (F2) Depleted Below Surface (A11) Redox Dark Surface (F7) Thick Dark Surface (A12) Depleted Dark Surface (F7) Sandy Mucky Mineral (S1) Redox Depressions (F8) Sandy Gleyed Matrix (S4) Depleted Dark Surface (F7) Sandy Redox (S5)										
De: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. *Location: PL = Pore Lining, M = Matrix. Indicators: Indicators for Problematic Hydric Soils*: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, MLRA 149B) Coast Prairie Redox (A10) (LRR K, L, R) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) S cm Mucky Peat or Peat (S3) (LRR K, L, R) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) D pelleted Matrix (F3) D pelleted Matrix (F3) Depleted Below Dark Surface (A11) Redox Dark Surface (F6) T nin Dark Surface (F7) T nin Dark Surface (S9) (LRR K, L) Sandy Mucky Mineral (S1)					_					
Dee: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. ² Location: PL = Pore Lining, M = Matrix. Indicators: Indicators for Problematic Hydric Soils ² : Histosol (A1) Polyvalue Below Surface (S8) (LRR R, MLRA 149B) Histic Epipedon (A2) Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Depleted Below Dark Surface (A11) Depleted Matrix (F2) Sandy Mucky Mineral (S1) Depleted Dark Surface (F6) Thic Dark Surface (S5) Depleted Dark Surface (F7) Sandy Gleyed Matrix (S4) Mesic Spodic (TA6) (MLRA K, L, R) Sandy Redox (S5) Depleted Dark Surface (F7) Stripped Matrix (S6) Piedmont Floodplain Soils (F19) (MLRA 1449B) Dark Surface (S7) (LRR K, L) Piedmont Floodplain Soils (F19) (MLRA 1449B) Stripped Matrix (S6) Weisc Spodic (TA6) (MLRA 144A, 145, 149B) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) Licators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. trictive Layer (f observed): None Type: None Depth (inches): Yetric Soil Present?										
De: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. ² Location: PL = Pore Lining, M = Matrix. Indicators: Indicators for Problematic Hydric Soils ³ : Histosol (A1) Polyvalue Below Surface (S8) (LRR R, MLRA 149B) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) Black Histic (A3) Loamy Gleyed Matrix (F2) Stratified Layers (A5) Depleted Matrix (F3) Depleted Below Dark Surface (A11) Redox Dark Surface (F6) Thin Dark Surface (F6) Dolyvalue Below Surface (F7) Sandy Mucky Mineral (S1) Redox Depressions (F8) Sandy Redox (S5)										
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tric Soil Indicators: Indicators for Problematic Hydric Soils ³ : Histosol (A1) Polyvalue Below Surface (S8) (LRR R, MLRA 149B) Histosol (A2) Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Stratified Layers (A5) Depleted Matrix (F3) Depleted Below Dark Surface (A11) Redox Dark Surface (F6) Thick Dark Surface (A12) Depleted Dark Surface (F7) Sandy Mucky Mineral (S1) Redox Depressions (F8) Sandy Redox (S5) Redox Depressions (F8) Stripped Matrix (S6) Red Parent Material (F21) Dark Surface (S7) (LRR M, MLRA 149B)	/pe: C = (Concentration, D = I	Depletio	n, RM = Reduced	Matr	ix, MS =	Masked Sand	Grains. ² Loca	ation: PL = Por	e Lining, M = Matrix.
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Histic Epipedon (A2)Thin Dark Surface (S9) (LRR R, MLRA 149B)Coast Prairie Redox (A16) (LRR K, L, R)Coast Prairie Redox (A16) (LRR K, L, R)	Histoso	l (A1)		Polyvalue Bel	ow S	urface (S	8) (LRR R, MLR	A 149B)	2 cm Muck	(A10) (LRR K. L. MLRA 149B)
Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Dark Surface (S7) (LRR K, L) Stratified Layers (A5) Depleted Matrix (F3) Dark Surface (S7) (LRR K, L) Depleted Below Dark Surface (A11) Redox Dark Surface (F6) Nin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Depleted Dark Surface (F7) Iron-Manganese Masses (F12) (LRR K, L, R) Sandy Mucky Mineral (S1) Redox Depressions (F8) Iron-Manganese Masses (F12) (LRR K, L, P) Sandy Redox (S5) Redox Depressions (F8) Nesic Spodic (TA6) (MLRA 1449. 145, 149. 149. 149. 145, 149. 149. 145, 149. 149. 144. 145, 149. 149. 144. 145, 149. 144. 145. 149. 144. 145. 149. 144. 145. 149. 144. 145. 149. 144. 145. 149. 144. 145. 149. 144. 145. 149. 144. 145. 149. 144. 145. 149. 144. 145. 149. 146. 146. 146. 146. 146. 146. 146. 146	_ Histic Ep	pipedon (A2)		Thin Dark Sur	rface	(S9) (LRR	R, MLRA 149E) _	Coast Prairi	e Redox (A16) (LRR K, L, R)
Hydrogen Sulfide (A4)Loamy Gleyed Matrix (F2)	Black Hi	istic (A3)		Loamy Mucky	/ Min	eral (F1)	(LRR K, L)	_	5 cm Mucky	/ Peat or Peat (S3) (LRR K, L, R)
Stratilied Layers (AS)	_ Hydroge	en Sulfide (A4)		Loamy Gleye		trix (F2)		-	Dark Surfac	e (S7) (LRR K, L)
Thick Dark Surface (A12)	Deplete	d Balow Dark Surfa	re (A11)	Depieted Mai	urfac	-5) Te (F6)		-	Polyvalue B	elow Surface (S8) (LRR K, L)
Sandy Mucky Mineral (S1)Redox Depressions (F8)lron-Manganese Masses (F12) (LRR K, L, R)Piedmont Floodplain Soils (F19) (MLRA 1498 Sandy Redox (S5)Mesic Spodic (TA6) (MLRA 144A, 145, 149B)Red Parent Material (F21)Very Shallow Dark Surface (TF12)Very Shallow Dark Surface (TF12)Other (Explain in Remarks) licators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. trictive Layer (if observed): NoneHydric Soil Present? YesNo<	Depicte				uniuc				Thim David C	urface (SQ) (I DD K I)
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Sandy Redox (S5)	_ Thick Da _ Sandy N	ark Surface (A12) Mucky Mineral (S1)		Depleted Dar Redox Depres	[.] k Sur ssion	face (F7) s (F8)		-	Iron-Manga	nese Masses (F12) (LRR K, L, R)
Stripped Matrix (S6)	_ Thick Da _ Sandy N _ Sandy O	ark Surface (A12) Mucky Mineral (S1) Gleyed Matrix (S4)		Depleted Dark	k Sur ssion	face (F7) s (F8)		-	Iron-Manga Iron-Manga Piedmont F	nese Masses (F12) (LRR K, L, R) loodplain Soils (F19) (MLRA 149B)
Dark Surface (S7) (LRR R, MLRA 149B)	_ Thick D. _ Sandy N _ Sandy C _ Sandy F	ark Surface (A12) Mucky Mineral (S1) Gleyed Matrix (S4) Redox (S5)		Depleted Dark	k Sur ssion	face (F7) s (F8)		-	Inin Dark S Iron-Manga Piedmont F Mesic Spod	nese Masses (F12) (LRR K, L, R) loodplain Soils (F19) (MLRA 149B) ic (TA6) (MLRA 144A, 145, 149B)
Iicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. trictive Layer (if observed): Type:NoneHydric Soil Present? YesNo _∠	_ Thick D _ Sandy N _ Sandy C _ Sandy F _ Stripped	ark Surface (A12) Mucky Mineral (S1) Gleyed Matrix (S4) Redox (S5) d Matrix (S6)		Depleted Dar Redox Depre	k Sur ssion	face (F7) s (F8)		- - -	Iron-Manga Piedmont F Mesic Spod Red Parent Very Shallon	nese Masses (F12) (LRR K, L, R) loodplain Soils (F19) (MLRA 149B) ic (TA6) (MLRA 144A, 145, 149B) Material (F21)
trictive Layer (if observed): Type:NoneHydric Soil Present? YesNo _∠	_ Thick D _ Sandy M _ Sandy C _ Sandy F _ Stripped _ Dark Su	ark Surface (A12) Mucky Mineral (S1) Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) (LRR R, M	LRA 149	 Depleted Dar Depleted Dar Redox Depre 	k Sur	face (F7) s (F8)		- - - -	Iron-Manga Piedmont F Mesic Spod Red Parent Very Shallov Other (Expla	nese Masses (F12) (LRR K, L, R) loodplain Soils (F19) (MLRA 149B) ic (TA6) (MLRA 144A, 145, 149B) Material (F21) w Dark Surface (TF12) ain in Remarks)
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parks:	Thick D Sandy N Sandy C Sandy F Strippe Dark Su dicators strictive	ark Surface (A12) Mucky Mineral (S1) Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) (LRR R, M of hydrophytic veg Layer (if observed): Type:	ILRA 149	Depleted Dar Depleted Dar Redox Depre Redox Depre Redox Depre None	k Sur ssion	face (F7) s (F8) / must be	e present, unle Hydric Soil Pi	- - - ss disturbed o	Inin Dark S Iron-Manga Piedmont F Mesic Spod Red Parent Very Shallou Other (Expla or problematic Yes	nese Masses (F12) (LRR K, L, R) loodplain Soils (F19) (MLRA 149B) ic (TA6) (MLRA 144A, 145, 149B) Material (F21) w Dark Surface (TF12) ain in Remarks) No∠
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	Thick D. Sandy N. Sandy C. Sandy F. Stripper Dark Su dicators strictive	ark Surface (A12) Mucky Mineral (S1) Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) (LRR R, M <u>of hydrophytic veg</u> Layer (if observed): Type: Depth (inches):	ILRA 149	Depleted Dar Depleted Dar Redox Depre None	olog)	face (F7) s (F8) <u>/ must be</u>	e present, unle Hydric Soil Pr	ss disturbed o	Inin Dark S Iron-Manga Piedmont F Mesic Spod Red Parent Very Shallou Other (Expla or problematic Yes	Inace (35) (LKK K, L) nese Masses (F12) (LRR K, L, R) loodplain Soils (F19) (MLRA 149B) ic (TA6) (MLRA 144A, 145, 149B) Material (F21) <i>w</i> Dark Surface (TF12) ain in Remarks) No∠
	Thick D. Sandy N. Sandy C. Sandy F. Stripper Dark Su dicators strictive	ark Surface (A12) Mucky Mineral (S1) Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) (LRR R, M <u>of hydrophytic veg</u> Layer (if observed): Type: Depth (inches):	ILRA 149	Depleted Dar Depleted Dar Redox Depre None	olog	face (F7) s (F8) <u>/ must be</u>	e present, unle Hydric Soil Pr	ss disturbed o	Inn Dark S Iron-Manga Piedmont F Mesic Spod Red Parent Very Shallov Other (Expla or problematic Yes	Inace (35) (LKK K, L) nese Masses (F12) (LRR K, L, R) loodplain Soils (F19) (MLRA 149B) ic (TA6) (MLRA 144A, 145, 149B) Material (F21) w Dark Surface (TF12) ain in Remarks) No∠
	Thick D. Sandy N. Sandy F. Stripper Dark Su dicators strictive	ark Surface (A12) Mucky Mineral (S1) Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) (LRR R, M of hydrophytic veg Layer (if observed): Type: 	ILRA 149	Depleted Dar Depleted Dar Redox Depre Redox Depre None	olog)	face (F7) s (F8) <u>/ must be</u>	e present, unle Hydric Soil Pr	ss disturbed o	Inn Dark S Iron-Manga Piedmont F Mesic Spod Red Parent Very Shallov Other (Expla or problematic Yes	Inace (35) (EKK K, E) nese Masses (F12) (LRR K, L, R) loodplain Soils (F19) (MLRA 149B) Material (F21) <i>w</i> Dark Surface (TF12) ain in Remarks) No _∠
	Thick D. Sandy N. Sandy F. Strippe Dark Su dicators strictive	ark Surface (A12) Mucky Mineral (S1) Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) (LRR R, M of hydrophytic veg Layer (if observed): Type: Depth (inches):	ILRA 149	Depleted Dar Redox Depre Redox Depre PB) and wetland hydr None	olog)	face (F7) s (F8) <u>/ must be</u>	e present, unle Hydric Soil Pr	ss disturbed o	Inn Dark S Iron-Manga Piedmont F Mesic Spod Red Parent Very Shallov Other (Expla or problematic Yes	Inace (35) (EKK K, E) nese Masses (F12) (LRR K, L, R) loodplain Soils (F19) (MLRA 149B) Material (F21) <i>w</i> Dark Surface (TF12) ain in Remarks) No∠
	Thick D. Sandy M. Sandy C. Sandy F. Dark Su dicators strictive	ark Surface (A12) Mucky Mineral (S1) Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) (LRR R, M of hydrophytic veg Layer (if observed): Type: Depth (inches):	ILRA 149	Depleted Dar Depleted Dar Redox Depre Redox Depre None	olog)	face (F7) s (F8) <u>/ must be</u>	e present, unle Hydric Soil Pi	ss disturbed o	Inin Dark S Iron-Manga Piedmont F Mesic Spod Red Parent Very Shallov Other (Expla or problematic Yes	Inace (35) (LKK K, L) nese Masses (F12) (LRR K, L, R) loodplain Soils (F19) (MLRA 149B) Material (F21) <i>w</i> Dark Surface (TF12) ain in Remarks) No∠

Photo of Sample Plot



Project/Site: High Rive	er		City/County: Ams	sterdam,			Sampling Date:	: 2017-July-18
Applicant/Owner: N	extEra				State:	New York	Sampling Point:	W-AJF-05; PSS-1
Investigator(s): Anth	ony Froonjian,	AJW		See	tion, Towns	ship, Range:		
Landform (hillslope, te	rrace, etc.):	Channel		Local relie	f (concave,	convex, none):	Concave	Slope (%): 2-5
Subregion (LRR or MLR	RA): LRR L			Lat	42.893422	25 Long:	-74.1218818	Datum: WGS84
Soil Map Unit Name:	Appleton silt	loam, 3 to 8 perc	ent slopes (ApB))			NWI classifi	cation:
Are climatic/hydrologic	conditions on	the site typical f	or this time of ye	ear?	Yes 🖌	_ No (If n	o, explain in Rema	irks.)
Are Vegetation,	Soil,	or Hydrology	significantly dis	sturbed?	Are "N	ormal Circums	tances" present?	Yes 🟒 No
Are Vegetation,	Soil,	or Hydrology	_ naturally probl	lematic?	(If nee	ded, explain ar	ny answers in Rem	iarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes 🟒 No		
Hydric Soil Present?	Yes 🟒 No	Is the Sampled Area within a Wetland?	Yes 🟒 No
Wetland Hydrology Present?	Yes 🟒 No	If yes, optional Wetland Site ID:	W-AJF-05
Remarks: (Explain alternative procedures h	ere or in a separate repor	t)	
TRC covertype is PSS.			

one is required; check a	<u>ll that apply)</u>		Secondary Indicators (minimum of two required)
Wate Aqua Marl Hydr Oxid	er-Stained Leaves (B9) atic Fauna (B13) I Deposits (B15) rogen Sulfide Odor (C1) lized Rhizospheres on Living	Roots (C3)	Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imageny (C9)
Pres Rece Thin nagery (B7) Othe Surface (B8)	ence of Reduced Iron (C4) ent Iron Reduction in Tilled So Muck Surface (C7) er (Explain in Remarks)	oils (C6)	 Stunted or Stressed Plants (D1) Geomorphic Position (D2) Shallow Aquitard (D3) Microtopographic Relief (D4) FAC-Neutral Test (D5)
Yes No 🟒	Depth (inches):		
Yes 🟒 No	Depth (inches):	3	- Wetland Hydrology Present? Yes _∠_ No
Yes 🟒 No	Depth (inches):	0	-
			-
gauge, monitoring well,	, aerial photos, previous insp	pections), if	available:
	one is required; check a Wata Aqu. Mar Hydi Oxica Pres Rece Thin nagery (B7)Othe urface (B8) YesNo YesNo YesNo gauge, monitoring well	one is required; check all that apply) Water-Stained Leaves (B9) Aquatic Fauna (B13) Marl Deposits (B15) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled So Thin Muck Surface (C7) hagery (B7) Other (Explain in Remarks) urface (B8) Yes No Depth (inches): Yes No Depth (inches): Yes No Depth (inches): Yes No Depth (inches): gauge, monitoring well, aerial photos, previous inspective.	me is required; check all that apply)

Sampling Point: <u>W-AJF-05; PSS-1</u>

<u>Tree Stratum</u> (Plot size: <u>30 ft</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksl Number of Dominant S	n eet: pecies That	4	(A)
1. 2.		·		Are OBL, FACW, or FAC: Total Number of Domir	nant Species	4	(B)
3		·		Percent of Dominant Sp Are OBL, FACW, or FAC:	pecies That	100	(A/B)
5.				Prevalence Index works	sheet:		
6		·		Total % Cover	<u>of:</u>	<u>Multiply</u>	<u>' By:</u>
7				OBL species	15	x 1 =	15
	0	= Total Cov	er	FACW species	110	x 2 =	220
Sapling/Shrub Stratum (Plot size: <u>15 ft</u>)				FAC species	5	x 3 =	15
1. <u>Cornus alba</u>	65	Yes	FACW	FACU species	0	x 4 =	0
2				UPL species	0	x 5 =	0
3				Column Totals	130	(A)	250 (B)
4				Prevalence In	dex = B/A =	1.9	
5				Lludrophytic Vogetation	Indicators		· <u> </u>
6					l inuicators.	lagatation	-
7				1- Rapid Test for F	tic > E 004	regetation	1
	65	= Total Cov	er	2 - Dominance res	$\frac{15}{20\%}$		
<u>Herb Stratum</u> (Plot size: <u>5 ft.</u>)		-		5 - Prevalence inu	$ex IS \leq 5.0^{\circ}$	(Drovido	currenting
1. <i>Phalaris arundinacea</i>	30	Yes	FACW	data in Remarks or on a	Audpidiions sonarato sh		supporting
2. Typha latifolia	15	Yes	OBL	Problematic Hydr	onhytic Vege	tation ¹ (F	volain)
3. <i>Onoclea sensibilis</i>	10	No	FACW	Indicators of hydric so	il and wetlan	d hydrolc	ogy must he
4. Epilobium hirsutum	5	No	FACW	present, unless disturb	ed or probler	matic	by must be
5.				Definitions of Vegetation	on Strata:		
6.		·		Tree – Woody plants 3 i	n. (7.6 cm) or	r more in	diameter at
7.		·		breast height (DBH), re	gardless of h	eight.	
8.				Sapling/shrub - Woody	plants less tl	han 3 in. I	DBH and
9.				greater than or equal to	o 3.28 ft (1 m) tall.	
10		· ·		Herb – All herbaceous (non-woody)	plants, re	gardless of
11				size, and woody plants	less than 3.2	8 ft tall.	-
12		·		Woody vines - All wood	ly vines great	ter than 3	8.28 ft in
	60	- Total Cov	or	height.			
Woody Vine Stratum (Plot size: 30 ft)	00	- 10001 000		Hydrophytic Vegetatio	n Present?	/es 🟒 I	No
<u>woody vine stratum</u> (Flot size. <u>50 ft</u>)	E	Voc	EAC				
	5	162	FAC				
2.		·					
3		<u> </u>					
4							
	5	= lotal Cov	er				
Remarks: (Include photo numbers here or on a separate	sheet.)						

Depth	Matrix	to the u	Redox	Feat	ures		or confirm the a	absence of indicators.)	
(inches)	Color (moist)	06	Color (moist)	06	Type1	1.002		Texture	Pemarks
0 5	2 5V 3/1	100		70	туре		Gravelly	/ Silty Clay Loam	Remarks
E 1/	2.51 5/1	00		15			Graveny	volly Silt Loom	
5 - 14	2.51 6/2	60	7.518 0/0	15		IVI	Glav		
						<u> </u>			
				·					
				·					
		- <u> </u>							
				·					
				·					
	Concentration D -	Doplati	DD PM - Peduced	Matr		Maskod	Sand Grains 21	ocation: PL - Pore Lining	M – Matrix
Type. C = C		Depletit	JII, KIM – Reduced	Iviati	1X, 1VIS – 1	Maskeu		Judion. PL - Pore Lining,	, IVI – IVIdul IX.
Hyaric Soli	Indicators:				<i>c (</i> 2)			Indicators for Problem	atic Hydric Solis ³ :
Histoso	ol (A1)		Polyvalue Be	low S	urface (S	8) (LRR F	R, MLRA 149B)	2 cm Muck (A10) (L	RR K, L, MLRA 149B)
Histic E	pipedon (A2)		Thin Dark Su	rface	(S9) (LRR	R, MLRA	(149B)	Coast Prairie Redox	(A16) (LRR K, L, R)
Віаск н	listic (A3)		Loamy Muck	y Min	eral (F1)	(LRR K, L)	5 cm Mucky Peat o	r Peat (S3) (LRR K, L, R)
Hydrog	en Sulfide (A4)		Loamy Gleye		trix (F2)			Dark Surface (S7) (l	RR K, L)
Stratifie	ed Layers (A5)	(• • •	Depleted Ma	trix (F	-3)			Polyvalue Below Su	ırface (S8) (LRR K, L)
Depiete	ed Below Dark Surt	ace (ATT) Redox Dark :	Surtac	Ce (F6)			Thin Dark Surface (S9) (LRR K, L)
THICK D	ark Surface (ATZ)		Depleted Da	rk Sur	Tace (F7)			Iron-Manganese M	asses (F12) (LRR K, L, R)
Sandy P	VIUCKY MINERAI (ST)		Redox Depre	ession	is (F8)			Piedmont Floodpla	in Soils (F19) (MLRA 149B)
Sandy (Gleyed Matrix (S4)							Mesic Spodic (TA6)	(MLRA 144A, 145, 149B)
Sandy F	Redox (S5)							Red Parent Materia	al (F21)
Strippe	d Matrix (S6)							Very Shallow Dark	Surface (TE12)
Dark Su	urface (S7) (LRR R, M	MLRA 14	9B)					Other (Explain in R	emarks)
								• • • • • • • • • • • • • • • • •	,
3 ndicatore	of budrophytic yor		and wettand nyu	ology	/ must be	present	., uniess disturbe	ed of problematic.	
³ Indicators	of hydrophytic veg		-						
³ Indicators Restrictive	of hydrophytic veg Layer (if observed)	:							
³ Indicators Restrictive	of hydrophytic veg Layer (if observed) Type:	:	None			Hydric	Soil Present?		Yes 🧹 No
³ Indicators Restrictive	of hydrophytic veg Layer (if observed) Type: Depth (inches):	:	None			Hydric	Soil Present?		Yes _ 🖌 No
³ Indicators Restrictive Remarks:	of hydrophytic veg Layer (if observed) Type: Depth (inches):	:	None			Hydric	Soil Present?		Yes No
Indicators Restrictive Remarks:	of hydrophytic veg Layer (if observed) Type: Depth (inches):	:	None			Hydric	Soil Present?		Yes No
andicators Restrictive Remarks:	of hydrophytic veg Layer (if observed) Type: Depth (inches):	:	None			Hydric	Soil Present?		Yes No
Indicators Restrictive	of hydrophytic veg Layer (if observed) Type: Depth (inches):	:	None			Hydric	Soil Present?		Yes No
Restrictive	of hydrophytic veg Layer (if observed) Type: Depth (inches):	:	None			Hydric	Soil Present?		Yes No
Indicators Restrictive Remarks:	of hydrophytic veg Layer (if observed) Type: Depth (inches):	: 	None			Hydric	Soil Present?		Yes No
Indicators Restrictive Remarks:	of hydrophytic veg Layer (if observed) Type: Depth (inches):		None			Hydric	Soil Present?		Yes No
Indicators Restrictive Remarks:	of hydrophytic veg Layer (if observed) Type: Depth (inches):		None			Hydric	Soil Present?		Yes No
Indicators Restrictive Remarks:	of hydrophytic veg Layer (if observed) Type: Depth (inches):		None			Hydric	Soil Present?		Yes No
Restrictive	of hydrophytic veg Layer (if observed) Type: Depth (inches):		None			Hydric	Soil Present?		Yes No
Restrictive	of hydrophytic veg Layer (if observed) Type: Depth (inches):		None			Hydric	Soil Present?		Yes No
Indicators Restrictive	of hydrophytic veg Layer (if observed) Type: Depth (inches):		None			Hydric	Soil Present?		Yes No
Restrictive	of hydrophytic veg Layer (if observed) Type: Depth (inches):		None			Hydric	Soil Present?		Yes No
Indicators Restrictive	of hydrophytic veg Layer (if observed) Type: Depth (inches):		None			Hydric	Soil Present?		Yes No
Indicators Restrictive	of hydrophytic veg Layer (if observed) Type: Depth (inches):		None			Hydric	Soil Present?		Yes No
Indicators Restrictive	of hydrophytic veg Layer (if observed) Type: Depth (inches):		None			Hydric	Soil Present?		Yes No
³ Indicators Restrictive Remarks:	of hydrophytic veg Layer (if observed) Type: 		None			Hydric	Soil Present?		Yes No
³ Indicators Restrictive	of hydrophytic veg Layer (if observed) Type: Depth (inches):		None			Hydric	Soil Present?		Yes No
Indicators Restrictive	of hydrophytic veg Layer (if observed) Type: Depth (inches):		None			Hydric	Soil Present?		Yes No
Indicators Restrictive	of hydrophytic veg Layer (if observed) Type: Depth (inches):		None			Hydric	Soil Present?		Yes No
Indicators Restrictive	of hydrophytic veg Layer (if observed) Type: Depth (inches):		None			Hydric	Soil Present?		Yes No

Photo of Sample Plot



Project/Site: High River		City/County: Amsterdam,		Sampling Date: 20	17-July-18
Applicant/Owner: NextE	ra		State: New York	Sampling Point: W-A	JF-05; UPL-1
Investigator(s): Anthony	Froonjian, AJW	Sect	tion, Township, Range:		
Landform (hillslope, terrace	e, etc.): Hillslope	Local relief	(concave, convex, none):	None	Slope (%): 5-10
Subregion (LRR or MLRA):	LRR L	Lat:	42.893187 Long:	-74.1220158	Datum: WGS84
Soil Map Unit Name: App	pleton silt loam, 3 to 8 pe	rcent slopes (ApB)		NWI classificatio	on:
Are climatic/hydrologic con	ditions on the site typical	for this time of year?	Yes 🟒 No (If n	o, explain in Remarks.)
Are Vegetation, Soil	, or Hydrology	significantly disturbed?	Are "Normal Circums	stances" present?	Yes 🟒 No
Are Vegetation, Soil	, or Hydrology	naturally problematic?	(If needed, explain ar	ny answers in Remarks	i.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes No 🟒		
Hydric Soil Present?	Yes No 🟒	Is the Sampled Area within a Wetland?	Yes No 🟒
Wetland Hydrology Present?	Yes No _	lf yes, optional Wetland Site ID:	
Remarks: (Explain alternative procedures her	e or in a separate report		
TRC covertype is UPL.			

Wetland Hydrology Indicators:				
Primary Indicators (minimum of on	e is required; check all that	apply)	Secondary Indicators (minimum of	<u>f two required)</u>
 Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) 	Water-Stai Aquatic Fa Marl Depo Hydrogen Oxidized R	ned Leaves (B9) una (B13) sits (B15) Sulfide Odor (C1) hizospheres on Living Roots (C3)	 Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Ima 	agery (C9)
Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Ima Sparsely Vegetated Concave Sui	Presence of Recent Iro Thin Muck gery (B7) Other (Exp rface (B8)	of Reduced Iron (C4) n Reduction in Tilled Soils (C6) Surface (C7) lain in Remarks)	 Stunted or Stressed Plants (D1) Geomorphic Position (D2) Shallow Aquitard (D3) Microtopographic Relief (D4) FAC-Neutral Test (D5))
Field Observations:				
Surface Water Present?	Yes No 🟒	Depth (inches):		
Water Table Present?	Yes No 🟒	Depth (inches):	Wetland Hydrology Present?	Yes No 🟒
Saturation Present?	Yes No 🟒	Depth (inches):		
(includes capillary fringe)			-	
Describe Recorded Data (stream ga	auge, monitoring well, aeria	l photos, previous inspections), if a	available:	

Sampling Point: W-AJF-05; UPL-1

1.				-	species mat	2	(A)
				Are OBL, FACW, or FAC			
2				Total Number of Domi	nant Species	6	(B)
3.		. <u> </u>		 Percent of Dominant S 	pecies That		
4.				Are OBL, FACW, or FAC		33.3	(A/B)
5		·		Prevalence Index work	sheet:		
0				- <u>Total % Cover</u>	<u>of:</u>	<u>Multiply</u>	<u>By:</u>
7		- Tatal Cau		OBL species	0	x 1 =	0
Capita - (Church Strateurs (Distaires 15 ft)	0		er	FACW species	3	x 2 =	6
<u>Sapling/Shrub Stratum</u> (Plot Size: <u>15 It</u>)	25	Voc		FAC species	25	x 3 =	75
1. <u>Rhus typhina</u>	25	Vec		FACU species	70	x 4 =	280
2. <u>Contras racentosa</u>		<u>Ne</u>	FAC	– UPL species	50	x 5 =	250
	5		FACU	- Column Totals	148	(A)	611 (B)
4		·		- Prevalence l	ndex = B/A =	4.1	
5				- Hydrophytic Vegetatio	n Indicators:		
b				1- Rapid Test for	Hydrophytic V	/egetation	
7				2 - Dominance Te	est is > 50%	-	
	45	= lotal Cov	er	3 - Prevalence Inc	dex is $\leq 3.0^1$		
Herb Stratum (Plot size: <u>5 ft.</u>)	20		FACU	4 - Morphologica	l Adaptations	(Provide	supporting
1. Solidago canadensis		Yes	FACU	- data in Remarks or on	a separate sh	neet)	
2. Not Listed Plant	25	Yes	UPL	Problematic Hyd	rophytic Vege	tation ¹ (E>	(plain)
3. Monarda fistulosa	20	Yes	FACU	 ¹Indicators of hydric so 	oil and wetlan	d hydrolo	gy must be
4. <u>Rudbeckia hirta</u>	15	No	FACU	present, unless disturb	ped or proble	matic	
5. <i>Lysimachia ciliata</i>	3	No	FACW	_ Definitions of Vegetati	on Strata:		
6				Tree – Woody plants 3	in. (7.6 cm) or	more in	diameter at
7				breast height (DBH), re	egardless of h	eight.	
8				Sapling/shrub – Wood	y plants less t	han 3 in. [OBH and
9				greater than or equal t	ιο 3.28 π (1 m) tall.	
10				Herb – All nerbaceous	(non-woody)	plants, reg 8 ft tall	gardless of
11				- Woody vines - All woo	dy vines great	tor than 3	28 ft in
12				height.	uy vines great		.2010111
	93	= Total Cov	er		Duccent2	/a.a	la (
<u>Woody Vine Stratum</u> (Plot size: <u>30 ft</u>)				Hydrophytic vegetatio	on Present?	res r	10 _
1. <i>Vitis riparia</i>	10	Yes	FAC	_			
2				_			
3				_			
4				_			
	10	= Total Cov	er				

-12 10YR 3/2 100	nches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture		Remarks
2-18 10YR 4/3 100	0 - 12	10YR 3/2	100					Silt Loam		
Instruction Instruction Instruction Instruction	2 - 18	10YR 4/3	100					Silt Loam		
bit is in the image of the								one Loan	·	
De: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. ?Location: PL = Pore Lining, M = Matrix. Indicators: Indicators: Indicators for Problematic Hydric Soils? Histosol (A1) Polyvalue Below Surface (S8) (LRR R, MLRA 149B) C cast Prairie Redox (A10) (LRR K, L, R) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) S cm Mucky Peat or Peat (S3) (LRR K, L, R) Stratified Layers (A5) Depleted Matrix (F2) Dark Surface (S7) (LRR K, L) Depleted Bords Dark Surface (A11) Redox Depressions (F8) Depleted Dark Surface (F7) Sandy Redox (S5) Depleted Dark Surface (S7) (LRR R, MLRA 149B) Red Parent Material (F21) Stratified CS)					—					
Des: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. ² Location: PL = Pore Lining, M = Matrix. Indicators: Indicators for Problematic Hydric Soils*: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, MLRA 149B) 2 cm Muck (A10) (LRR K, L, MRA 149B) Bick Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) 2 cm Muck (A10) (LRR K, L, R) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) (LRR K, L) 2 cm Muck (A10) (LRR K, L, R) Depleted Below Dark Surface (A11) Redox Dark Surface (F6)					—					
Des: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. 2Location: PL = Pore Lining, M = Matrix. Indicators: Indicators for Problematic Hydric Soils*: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) S cm Mucky Peat or Peat (S3) (LRR K, L, R) Black Histic (A3) Loamy Mucky Mineral (F1) S cm Mucky Peat or Peat (S3) (LRR K, L, R) Hydrogen Sulfide (A4) Doamy Gleyed Matrix (F2) D ark Surface (S7) (LRR K, L) Stratified Layers (A5) Depleted Matrix (F3) D ark Surface (S7) (LRR K, L) Sandy Mucky Mineral (S1) Redox Depressions (F8) Iron-Marganese Masses (F12) (LRR K, L, R) Sandy Gleyed Matrix (S6) Nerder (S5) Red Parent Material (F21) Dark Surface (S7) (LRR R, MLRA 149B)	<u> </u>				—					
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De: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. ?Location: PL = Pore Lining, M = Matrix. Inic Soil Indicators: Indicators for Problematic Hydric Soils?: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, MLRA 149B) Black Histic (A2) Thin Dark Surface (S9) (LRR K, MLRA 149B) Black Histic (A3) Loamy Gleyed Matrix (F2) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Stratified Layers (A5) Depleted Matrix (F3) Depleted Below Dark Surface (F6) Dolyvalue Below Surface (S8) (LRR K, L) Thin Dark Surface (F6) Dolyvalue Below Surface (S9) (LRR K, L) Depleted Below Dark Surface (A11) Redox Depressions (F8) Sandy Mucky Mineral (S1) Redox Depressions (F8) Sandy Redox (S5)										
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De: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. ² Location: PL = Pore Lining, M = Matrix. Iric Soil Indicators: Indicators for Problematic Hydric Soils ⁹ : Histosol (A1) Polyvalue Below Surface (S8) (LRR R, MLRA 149B) Histic Epipedon (A2) Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Stratified Layers (A5) Depleted Matrix (F3) Depleted Below Dark Surface (A12) Depleted Dark Surface (F6) Thick Dark Surface (A12) Depleted Dark Surface (F7) Sandy Mucky Mineral (S1) Redox Depressions (F8) Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 144B) Stripped Matrix (S6) Red Parent Material (F21) Dark Surface (S7) (LRR R, MLRA 149B) Wesic Spodic (TA6) (MLRA 144A, 145, 149B) Stripped Matrix (S6) Red Parent Material (F21) Dark Surface (S7) (LRR R, MLRA 149B) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Very Shallow Dark Surface (TF12) Stripped Matrix (S6) Red Parent Material (F21) Urery Shallow Dark Surface (TF12) Other (Explain in Remarks) licators of hydrophytic veg					—					
Dee: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. 2Location: PL = Pore Lining, M = Matrix. Iric Soil Indicators: Indicators for Problematic Hydric Soils ³ : Histosol (A1) Polyvalue Below Surface (S9) (LRR R, MLRA 149B) 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histic Epipedon (A2) Thin Dark Surface (S9) (LRR R, MLRA 149B) 2 coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Dark Surface (S7) (LRR K, L, L) Stratified Layers (A5) Depleted Matrix (F3) Polyvalue Below Surface (S8) (LRR K, L) Depleted Below Dark Surface (A11) Redox Dark Surface (F6) Thin Dark Surface (S9) (LRR K, L) Sandy Mucky Mineral (S1) Redox Depressions (F8) Iron-Manganese Masses (F12) (IRR K, L, R) Sandy Gleyed Matrix (S6) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Stripped Matrix (S6) Red Parent Material (F21) Dark Surface (S7) (LRR R, MLRA 149B) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Very Shallow Dark Surface (TF12) Sandy Gleyed Matrix (S6) Piedmont Floodplain soils (F19) (MLRA 144A, 145, 149B) Stripped Matrix (S6) Very Shallow Da					—					
De: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. 2Location: PL = Pore Lining, M = Matrix. Iric Soil Indicators: Indicators for Problematic Hydric Soils ³ : Histosol (A1) Polyvalue Below Surface (S8) (LRR R, MLRA 149B)					—					
Vec. Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grants. Location, FL = Fore Lining, M = Matrix. Iric Soil Indicators: Indicators for Problematic Hydric Soils ³ : Histosol (A1) Polyvalue Below Surface (S8) (LRR R, MLRA 149B) Histic Epipedon (A2)	no: C = (Concentration D - I	Doplatio	p PM - Poducod	Mate	iv MS -	Masked San	d Grains 21	ocation: Pl - Po	ro Liping M - Matrix
Histosol (A1) Polyvalue Below Surface (S8) (LRR R, MLRA 149B) Histosol (A2) Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Stratified Layers (A5) Depleted Matrix (F3) Depleted Below Dark Surface (A11) Redox Dark Surface (F6) Thin Dark Surface (A12) Depleted Dark Surface (F7) Sandy Mucky Mineral (S1) Redox Depressions (F8) Sandy Gleyed Matrix (S4) Mesic Spoid: (TA6) (MLRA 1449B) Sandy Redox (S5) Redox Depressions (F8) Stripped Matrix (S6) Wery Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Weice Soid (TA6) (MLRA 1449B) Licators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Trype: None Mydric Soil Present? Yes No	hric Soil	Indicators:	Jepietio	n, Kin – Keuuceu	Iviati	1, 1913 -	Maskeu Jahr		Indicators for	Problematic Hydric Sails3:
Instact (A1)				Polyvaluo Bol		urfaco (S		DA 1/0P)	indicators for	Froblematic Hydric Solis
Induct pipe conversion Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F2) Stratified Layers (A5) Depleted Matrix (F3) Depleted Below Dark Surface (A11) Redox Dark Surface (F6) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Licators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Type: None Depth (inches):	Histic Fi	ninedon (A2)		Thin Dark Sur	ow 5 rface	(S9) (I RR		-RA 1490))R)	2 cm Mucl	(A10) (LRR K, L, MLRA 149B)
Hydrogen Sulfide (A4)Loamy Gleyed Matrix (F2) Stratified Layers (A5)Depleted Matrix (F3) Depleted Below Dark Surface (A11) Redox Dark Surface (F6) Thick Dark Surface (A12)Depleted Dark Surface (F7) Sandy Mucky Mineral (S1)Redox Depressions (F8) Sandy Gleyed Matrix (S4)Nesic Spodic (TA6) (MLRA 1448, 145, 149B) Sandy Redox (S5)Red Parent Material (F21) Stripped Matrix (S6)Nere Dark Surface (S7) (LRR R, MLRA 149B)None Hydric Soil Present? YesNo	Black H	istic (A3)		Loamy Muck	/ Min	eral (F1)	(LRR K, L)	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Coast Prai	rie Redox (A16) (LRR K, L, R)
Stratified Layers (A5)	Hydrog	en Sulfide (A4)		Loamy Gleye	d Ma	trix (F2)	. , ,		5 cm Mucl	(Y Peat or Peat (S3) (LRR K, L, R)
Depleted Below Dark Surface (A11) Redox Dark Surface (F6)	Stratifie	d Layers (A5)		Depleted Mar	crix (F	-3)			Dark Suria	Relow Surface (S8) (I PP K 1)
Thick Dark Surface (A12) Depleted Dark Surface (F7) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Redox (S5) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) Other (Explain in Remarks) Other (Explain in Remarks) Depth (inches): Mone Hydric Soil Present? Yes No<	Deplete	d Below Dark Surfa	ice (A11)) Redox Dark S	urfac	ce (F6)			Folyvalue	Surface (SQ) (I BB K 1)
Sandy Mucky Mineral (S1)						· · · · · · (E7)				
Sandy Gleyed Matrix (S4)	Thick D	ark Surface (A12)		Depleted Dar	'k Sui	Tace (F7)			Iron-Mang	anese Masses (F12) (I RR K R)
Sandy Redox (S5)	_Thick Da _Sandy N	ark Surface (A12) /lucky Mineral (S1)		Depleted Dar Redox Depres	ssion	тасе (F7) s (F8)			Iron-Mang Piedmont	anese Masses (F12) (LRR K, L, R) Floodplain Soils (F19) (MI RA 1498)
Stripped Matrix (S6)	_ Thick Da _ Sandy N _ Sandy (ark Surface (A12) Aucky Mineral (S1) Gleyed Matrix (S4)		Depleted Dar Redox Depre	ssion	tace (F7) s (F8)			Iron-Mang Piedmont Mesic Spo	anese Masses (F12) (LRR K, L, R) Floodplain Soils (F19) (MLRA 149B) dic (TA6) (MLRA 144A, 145, 149B)
Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) licators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. trictive Layer (if observed):	_ Thick Da _ Sandy N _ Sandy C _ Sandy F	ark Surface (A12) Aucky Mineral (S1) Gleyed Matrix (S4) Redox (S5)		Depleted Dar Redox Depre	k Sui ssion	тасе (F7) s (F8)			Iron-Mang Piedmont Mesic Spo Red Paren	anese Masses (F12) (LRR K, L, R) Floodplain Soils (F19) (MLRA 149B) dic (TA6) (MLRA 144A, 145, 149B) t Material (F21)
licators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. trictive Layer (if observed): Type:NoneHydric Soil Present? YesNo	_ Thick Da _ Sandy M _ Sandy C _ Sandy F _ Strippe	ark Surface (A12) Aucky Mineral (S1) Gleyed Matrix (S4) Redox (S5) d Matrix (S6)		Depleted Dar Redox Depre	ssion	тасе (F7) s (F8)			Iron-Mang Piedmont Mesic Spo Red Paren Very Shalle	anese Masses (F12) (LRR K, L, R) Floodplain Soils (F19) (MLRA 149B) dic (TA6) (MLRA 144A, 145, 149B) t Material (F21) ow Dark Surface (TF12)
trictive Layer (if observed): Type:NoneHydric Soil Present? YesNo	_ Thick D ₄ _ Sandy M _ Sandy C _ Sandy F _ Stripped _ Dark Su	ark Surface (A12) Jucky Mineral (S1) Gleyed Matrix (S4) Redox (S5) d Matrix (S6) ırface (S7) (LRR R, M	ILRA 149	Depleted Dar Redox Depre IB)	ssion	s (F8)			lron-Mang Piedmont Mesic Spo Red Paren Very Shallo Other (Exp	anese Masses (F12) (LRR K, L, R) Floodplain Soils (F19) (MLRA 149B) dic (TA6) (MLRA 144A, 145, 149B) t Material (F21) ow Dark Surface (TF12) olain in Remarks)
Type: None Depth (inches): Yes	_Thick Da _Sandy N _Sandy C _Sandy F _Stripper _Dark Su	ark Surface (A12) Aucky Mineral (S1) Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) (LRR R, M of hydrophytic yeg	ILRA 149	Depleted Dar Redox Depre B	ology	race (F7) s (F8)	e present. ur	less disturbe	Iron-Mang Piedmont Mesic Spo Red Paren Very Shall Other (Exp ed or problemat	anese Masses (F12) (LRR K, L, R) Floodplain Soils (F19) (MLRA 149B) dic (TA6) (MLRA 144A, 145, 149B) t Material (F21) ow Dark Surface (TF12) olain in Remarks)
Depth (inches):	_ Thick Da _ Sandy M _ Sandy C _ Sandy F _ Stripped _ Dark Su dicators	ark Surface (A12) Mucky Mineral (S1) Gleyed Matrix (S4) Redox (S5) d Matrix (S6) Irface (S7) (LRR R, M of hydrophytic vegi Laver (if observed):	ILRA 149	Depleted Dar Redox Depre }B) and wetland hydr	ssion	7 must be	e present, ur	less disturbe	Iron-Mang Piedmont Mesic Spo Red Paren Very Shall Other (Exp ed or problemat	anese Masses (F12) (LRR K, L, R) Floodplain Soils (F19) (MLRA 149B) dic (TA6) (MLRA 144A, 145, 149B) t Material (F21) ow Dark Surface (TF12) olain in Remarks) ic.
	_ Thick Da _ Sandy M _ Sandy C _ Sandy F _ Stripped _ Dark Su dicators strictive	ark Surface (A12) Mucky Mineral (S1) Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) (LRR R, M of hydrophytic vege Layer (if observed):	ILRA 149	Depleted Dar Redox Depre PB) and wetland hydr None	ssion	race (F7) s (F8) <u>/ must be</u>	e present, ur	less disturbe Present?	Iron-Mang Piedmont Mesic Spo Red Paren Very Shall Other (Exp ed or problemat	anese Masses (F12) (LRR K, L, R) Floodplain Soils (F19) (MLRA 149B) dic (TA6) (MLRA 144A, 145, 149B) t Material (F21) bw Dark Surface (TF12) olain in Remarks) ic.
	Thick D. Sandy N Sandy C Sandy F Stripped Dark Su dicators strictive	ark Surface (A12) Mucky Mineral (S1) Gleyed Matrix (S4) Redox (S5) d Matrix (S6) Irface (S7) (LRR R, M of hydrophytic veg Layer (if observed): Type:	ILRA 149	Depleted Dar Redox Depre }B) and wetland hydr None	ssion	7 must be	e present, ur Hydric Soil	less disturbe Present?	Iron-Mang Piedmont Mesic Spo Red Paren Very Shall Other (Exp ed or problemat	anese Masses (F12) (LRR K, L, R) Floodplain Soils (F19) (MLRA 149B) dic (TA6) (MLRA 144A, 145, 149B) t Material (F21) bw Dark Surface (TF12) olain in Remarks) ic.
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	Thick D. Sandy N Sandy G Sandy F Stripper Dark Su licators trictive	ark Surface (A12) Aucky Mineral (S1) Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) (LRR R, M of hydrophytic vege Layer (if observed): Type: Depth (inches):	ILRA 149	Depleted Dar Redox Depre 9B) and wetland hydr None	ology	race (F7) s (F8) γ must be	e present, ur Hydric Soil	less disturbe Present?	Iron-Mang Piedmont Mesic Spo Red Paren Very Shalld Other (Exp ed or problemat Yes _	anese Masses (F12) (LRR K, L, R) Floodplain Soils (F19) (MLRA 149B) dic (TA6) (MLRA 144A, 145, 149B) t Material (F21) bw Dark Surface (TF12) blain in Remarks) icNo
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	Thick D. Sandy N Sandy C Sandy F Stripper Dark Su dicators trictive	ark Surface (A12) Aucky Mineral (S1) Gleyed Matrix (S4) Redox (S5) d Matrix (S6) Irface (S7) (LRR R, M of hydrophytic vege Layer (if observed): Type: Depth (inches):	ILRA 149	Depleted Dar Redox Depre 9B) and wetland hydr <u>None</u>	olog	/ must be	e present, ur Hydric Soil	less disturbe Present?	Iron-Mang Piedmont Mesic Spo Red Paren Very Shall Other (Exp ed or problemat Yes	anese Masses (F12) (LRR K, L, R) Floodplain Soils (F19) (MLRA 149B) dic (TA6) (MLRA 144A, 145, 149B) t Material (F21) bw Dark Surface (TF12) blain in Remarks) icNo
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Photo of Sample Plot



Project/Site: High Rive	r	C	ity/County: Ams	terdam,			Sampling Date:	2017-July-18
Applicant/Owner: No	extEra				State:	New York	Sampling Point:	W-AJF-06; PAB-1
Investigator(s): Anthe	ony Froonjian,	AJW		Sec	tion, Towns	ship, Range:		
Landform (hillslope, ter	rrace, etc.):	Hillslope		Local relief	(concave,	convex, none):	None	Slope (%): 5-10
Subregion (LRR or MLR	A): LRR L			Lat:	42.893063	31 Long:	-74.1207329	Datum: WGS84
Soil Map Unit Name:	Appleton silt	loam, 3 to 8 perc	ent slopes (ApB)				NWI classifi	cation:
Are climatic/hydrologic	conditions on	the site typical for	or this time of yea	ar?	Yes 🖌	_ No (If n	o, explain in Rema	arks.)
Are Vegetation,	Soil, c	or Hydrology	_ significantly dis	sturbed?	Are "N	ormal Circums	stances" present?	Yes 🟒 No
Are Vegetation,	Soil, c	or Hydrology	_ naturally proble	ematic?	(If need	ded, explain aı	ny answers in Rem	narks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes 🟒 No		
Hydric Soil Present?	Yes 🟒 No	Is the Sampled Area within a Wetland?	Yes 🟒 No
Wetland Hydrology Present?	Yes 🟒 No	If yes, optional Wetland Site ID:	W-AJF-06
Remarks: (Explain alternative procedur	es here or in a separate rep	port)	
TRC covertype is PAB.			

Wetland Hydrology Indicators:				
Primary Indicators (minimum of o	ne is required; check	all that apply)		Secondary Indicators (minimum of two required)
 ✓ Surface Water (A1) ✓ High Water Table (A2) ✓ Saturation (A3) Water Marks (B1) Sediment Deposits (B2) 	Wat ⁄ Aqu Mai Hyc Oxi	ter-Stained Leaves (B9) Iatic Fauna (B13) rl Deposits (B15) Irogen Sulfide Odor (C1) dized Rhizospheres on Living	; Roots (C3)	 Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imageny (C9)
 Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Im Sparsely Vegetated Concave St 	Pre- Rec Thin agery (B7) Oth urface (B8)	sence of Reduced Iron (C4) ent Iron Reduction in Tilled S n Muck Surface (C7) er (Explain in Remarks)	ioils (C6)	 Stunted or Stressed Plants (D1) Geomorphic Position (D2) Shallow Aquitard (D3) Microtopographic Relief (D4) FAC-Neutral Test (D5)
Field Observations:				
Surface Water Present?	Yes 🖌 No	Depth (inches):	36	
Water Table Present?	Yes 🟒 No	Depth (inches):	0	Wetland Hydrology Present? Yes 🟒 No
Saturation Present?	Yes 🟒 No	Depth (inches):	0	-
(includes capillary fringe)				
Describe Recorded Data (stream g	gauge, monitoring wel	ll, aerial photos, previous ins	pections), if	available:

Sampling Point: W-AJF-06; PAB-1

Tree Stratum (Plot size: 30 ft)	Absolute	Dominant	Indicator	Dominance Test works	heet:		
	% Cover	Species?	Status	Number of Dominant S	Species That	3	(A)
1				Are OBL, FACW, or FAC	:		
2				- Across All Strata	nant species	3	(B)
3				Percent of Dominant S	necies That		
4				 Are OBL, FACW, or FAC 	:	100	(A/B)
5				- Prevalence Index work	sheet:		
6.				- <u>Total % Cover</u>	of:	Multiply	<u>By:</u>
7				 OBL species 	40	x 1 =	40
	0	= lotal Cov	/er	FACW species	25	x 2 =	50
<u>Sapling/Shrub Stratum</u> (Plot size: <u>15 ft</u>)				FAC species	5	x 3 =	15
1				– FACU species	0	x 4 =	0
2				– UPL species	0	x 5 =	0
3				– Column Totals	70	(A)	105 (B)
4				Prevalence Ir	ndex = B/A =	1.5	
5				- Hydrophytic Vegetation	n Indicators:		
6				- 1- Rapid Test for I	Hydrophytic V	/egetation	
7				- 🖌 2 - Dominance Te	st is >50%	0	
	0	= Total Cov	/er	3 - Prevalence Inc	dex is $\leq 3.0^1$		
<u>Herb Stratum</u> (Plot size: <u>25 ft. Transect</u>)				4 - Morphological	Adaptations	(Provide	supporting
1. <i>Typha latifolia</i>	25	Yes	OBL	– data in Remarks or on	a separate sh	neet)	
2. <i>Phalaris arundinacea</i>	20	Yes	FACW	Problematic Hydr	ophytic Vege	tation ¹ (Ex	plain)
3. <u>Utricularia macrorhiza</u>	15	Yes	OBL	¹ Indicators of hydric so	il and wetlan	d hydrolog	gy must be
4. <i>Impatiens capensis</i>	5	No	FACW	present, unless disturb	ed or probler	matic	
5. <u>Vitis riparia</u>	5	No	FAC	_ Definitions of Vegetation	on Strata:		
6				_ Tree – Woody plants 3	in. (7.6 cm) or	r more in o	diameter at
7				_ breast height (DBH), re	gardless of h	eight.	
8				_ Sapling/shrub - Woody	/ plants less tl	han 3 in. D	BH and
9				greater than or equal t	:0 3.28 ft (1 m) tall.	
10				Herb – All nerbaceous	(non-woody)	plants, reg o ft toll	gardless of
11				- Woody vines All woo	dy vines great	tor than 3	28 ft in
12				height.	uy vines great	ter than 5.	201111
	70	= Total Cov	/er	Hydrophytic Vegetatic	n Present?		
<u>Woody Vine Stratum</u> (Plot size: <u>30 ft</u>)						ics _ v _ iv	iu
1				-			
2				-			
3				-			
4				-			
	0	= Total Co	/er				
Remarks: (Include photo numbers here or on a sec	arate sheet.)						
- · ·	,						

14 2.5Y 6/1 100	nches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ² Tex	ture	Remarks
extraction D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. *Location: PL = Pore Lining, M = Matrix. istosol (A1)) - 14	2.5Y 6/1	100				Silty	Clay	
e: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. *Location: PL = Pore Lining, M = Matrix. ic Soil Indicators: Indicators for Problematic Hydric Soils?: listos Soil (A1)									
e:: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. *Location: PL = Pore Lining, M = Matrix. ic Soil Indicators: Indicators for Problematic Hydric Soils?: isitistic Sistic Epipedon (A2)									
e: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. ² Location: PL = Pore Lining, M = Matrix. ic Soil Indicators: Indicators for Problematic Hydric Soils?: listosol (A1) Polyvalue Below Surface (S8) (LRR R, MLRA 149B) listic Epipedon (A2) Thin Dark Surface (S9) (LRR R, MLRA 149B) lack Histic (A3) Loamy Gleyed Matrix (F2) lack Histic (A4) Loamy Gleyed Matrix (F2) variatified Layers (A5) Z Depleted Matrix (F3) eepleted Below Dark Surface (A11) Redox Dark Surface (F7) andy Gleyed Matrix (S4) Redox Depressions (F8) andy Redox (S5) Red Parent Material (F21) tripped Matrix (S6) West of Parent Material (F21) line down wetland hydrology must be present, unless disturbed or problematic. ridicators (S7) (LRR R, MLRA 149B) West of Parent Material (F21) line down wetland hydrology must be present, unless disturbed or problematic. ridicators (S5) None Hydric Soil Present? Yes No Depth (inches): None									
e: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. ² Location: PL = Pore Lining, M = Matrix. ic Soil Indicators: Indicators for Problematic Hydric Soils?: listic Soilond(A2)									
e: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. *Location: PL = Pore Lining, M = Matrix. ic Soil Indicators: Indicators for Problematic Hydric Soils*: listosol (A1)			<u> </u>						
a: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. 2Location: PL = Pore Lining, M = Matrix. ic Soil Indicators: indicators for Problematic Hydric Soils*: istosol (A1) Polyvalue Below Surface (S8) (LRR R, MLRA 149B) Coast Prairie Redox (A10) (LRR K, L, R) lack Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) S cm Muck (A10) (LRR K, L, R) ydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Dark Surface (S7) (LRR K, L) ratified Layers (A5) Depleted Matrix (F3) Doylalue Below Surface (S8) (LRR K, L) polytalue Below Dark Surface (A11) Redox Dark Surface (F6) Divalue Below Surface (S9) (LRR K, L) andy Mucky Mineral (S1) Redox Depressions (F8) Divalue Below Surface (S1) (LRR K, L, R) andy Redox (S5) Depleted Dark Surface (F7)									
e: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. *Location: PL = Pore Lining, M = Matrix. ic Soil Indicators: Indicators for Problematic Hydric Soils*: istosol (A1) Polyvalue Below Surface (S8) (LRR R, MLRA 149B) 2 cm Muck (A10) (LRR K, L, MLRA 149B) istic Epipedon (A2)			<u> </u>						
e: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. ?Location: PL = Pore Lining, M = Matrix. ic Soil Indicators: Indicators for Problematic Hydric Soils?: listosol (A1) Polyvalue Below Surface (S8) (LRR R, MLRA 149B) 2 cm Muck (A10) (LRR K, L, MLRA 149B) listic Epipedon (A2)									
e: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. ² Location: PL = Pore Lining, M = Matrix. ic Soil Indicators: Indicators for Problematic Hydric Soils ³ : istosol (A1) Polyvalue Below Surface (S8) (LRR R, MLRA 149B) lstic Epipedon (A2) Thin Dark Surface (S9) (LRR R, MLRA 149B) lack Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) ydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) ydrogen Sulfide (A4) Depleted Matrix (F2) istic Dark Surface (A11) Redox Dark Surface (F6) hick Dark Surface (A12) Depleted Dark Surface (F7) andy Mucky Mineral (S1) Redox Depressions (F8) andy Gleyed Matrix (S4)									
E: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. ² Location: PL = Pore Lining, M = Matrix. ic Soil Indicators: Indicators for Problematic Hydric Soils ³ : istosol (A1)									
ic Soil Indicators: Indicators for Problematic Hydric Soils ³ : iistosol (A1) Polyvalue Below Surface (S8) (LRR R, MLRA 149B) istic Epipedon (A2) Thin Dark Surface (S9) (LRR R, MLRA 149B) lack Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) lack Histic (A3) Loamy Gleyed Matrix (F2) vgdrogen Sulfide (A4) Loamy Gleyed Matrix (F3) vepleted Below Dark Surface (A11) Redox Dark Surface (F6) hick Dark Surface (A12) Depleted Dark Surface (F7) andy Gleyed Matrix (S4) Redox Depressions (F8) andy Redox (S5) Redox Depressions (F8) tripped Matrix (S6) Red Parent Material (F21) very Shallow Dark Surface (T12) Other (Explain in Remarks) cators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. rippe: None Hydric Soil Present? Yes No	e: C = (Concentration, D = [Depletio	n, RM = Reduced	Matr	ix, MS =	Masked Sand Grain	s. ² Location	: PL = Pore Lining, M = Matrix.
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listic Epipedon (A2)	listoso	ol (A1)		Polyvalue Bel	low S	urface (S	8) (LRR R, MLRA 149	B)2	cm Muck (A10) (LRR K, L, MLRA 149B)
Hatch Hstit (XS)	listic E	pipedon (A2)		Thin Dark Su	rface	(S9) (LRR	R, MLRA 149B)	Co	oast Prairie Redox (A16) (LRR K, L, R)
upper loading (FA)	Jack n Judrog	en Sulfide (A4)		Loamy Gleve	d Mat	trix (F2)	LKK N, LJ	5	cm Mucky Peat or Peat (S3) (LRR K, L, R)
andy Redox (S5) tripped Matrix (S6) bark Surface (S7) (LRR R, MLRA 149B) cators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Type: None Depth (inches):	Stratifie	ed Lavers (A5)		✓ Depleted Ma	trix (F	:3)		Da	ark Surface (S7) (LRR K, L)
hick Dark Surface (A12)	Deplete	ad Balow Dark Surfa	ce (Δ11	Depicted ind	Surfac	e (F6)		Po	blyvalue Below Surface (S8) (LRR K, L)
andy Mucky Mineral (S1)Redox Depressions (F8)Iron-Manganese Masses (F12) (LRR K, L, R)Piedmont Floodplain Soils (F12)Red Parent Material (F21)Piedmont Floodplain Soils (F12)Piedmont Surface (TF12)Potery Shallow Dark Surface (TF12)								Th	hin Dark Surface (S9) (I RR K. I)
andy Gleyed Matrix (S4)Piedmont Floodplain Solis (F19) (MLRA 149E) andy Redox (S5)Mesic Spodic (TA6) (MLRA 144A, 145, 149B) tripped Matrix (S6)Red Parent Material (F21) Dark Surface (S7) (LRR R, MLRA 149B)Other (Explain in Remarks) cators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. rictive Layer (if observed): Type: None Depth (inches): Hydric Soil Present? Yes No Arks:	Thick D	ark Surface (A12)		Depleted Dark	·k Sur	face (F7)			
andy Redox (S5)	Thick D Sandy N	ark Surface (A12) Mucky Mineral (S1)		Depleted Dar Depleted Dar Redox Depre	^r k Sur ssion	face (F7) s (F8)		Irc	on-Manganese Masses (F12) (LRR K, L, R)
tripped Matrix (S6) Very Shallow Dark Surface (TF12) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) cators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. rictive Layer (if observed): Type: None Hydric Soil Present? Yes No Depth (inches): arks:	Thick D Sandy N Sandy (ark Surface (A12) Mucky Mineral (S1) Gleyed Matrix (S4)		Depleted Dark	rk Sur ssion	face (F7) s (F8)		Iro Pi	on-Manganese (55) (EIK K, E, E) on-Manganese Masses (F12) (LRR K, L, R) edmont Floodplain Soils (F19) (MLRA 149B
Dark Surface (S7) (LRR R, MLRA 149B) Cators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. rictive Layer (if observed): Type: None Depth (inches): Arks:	Thick D Sandy M Sandy G Sandy G	ark Surface (A12) Mucky Mineral (S1) Gleyed Matrix (S4) Redox (S5)		Depleted Dark	rk Sur ssion	face (F7) s (F8)		Iro Pi M	on-Manganese Masses (F12) (LRR K, L, R) edmont Floodplain Soils (F19) (MLRA 149E esic Spodic (TA6) (MLRA 144A, 145, 149B)
cators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. rictive Layer (if observed): Type:NoneHydric Soil Present? Yes _✓_ No Depth (inches):	Thick D Sandy N Sandy (Sandy F Strippe	ark Surface (A12) Mucky Mineral (S1) Gleyed Matrix (S4) Redox (S5) d Matrix (S6)		Depleted Dar Redox Depre	rk Sur ssion	face (F7) s (F8)		Iro Pi M Re	on-Manganese Masses (F12) (LRR K, L, R) edmont Floodplain Soils (F19) (MLRA 149E esic Spodic (TA6) (MLRA 144A, 145, 149B) ed Parent Material (F21)
rictive Layer (if observed): Type:NoneHydric Soil Present? YesNo Depth (inches): arks:	Thick D Sandy M Sandy G Sandy F Strippe Dark Su	Jark Surface (A12) Mucky Mineral (S1) Gleyed Matrix (S4) Redox (S5) d Matrix (S6) Jurface (S7) (LRR R, M	LRA 149	Depleted Dar Redox Depre	rk Sur ssion	face (F7) s (F8)		Iro Pi M Re Ve	on-Manganese Masses (F12) (LRR K, L, R) edmont Floodplain Soils (F19) (MLRA 149B esic Spodic (TA6) (MLRA 144A, 145, 149B) ed Parent Material (F21) ery Shallow Dark Surface (TF12) ther (Explain in Remarks)
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Project/Site: High River	City/County: Florida, Montgomery Count	у	Sampling Date: 2	017-July-18			
Applicant/Owner: NextEra	State:	New York	Sampling Point: W-	AJF-06; UPL-1			
Investigator(s): Anthony Froonjian, AJW	Section, Townsh	nip, Range:					
Landform (hillslope, terrace, etc.): Hillslope	Local relief (concave, co	onvex, none):	None	Slope (%): 5-10			
Subregion (LRR or MLRA): LRR L	Lat: 42.8930394	4 Long:	-74.1207199	Datum: WGS84			
Soil Map Unit Name: Appleton silt loam, 3 to 8 pe		NWI classificat	ion:				
Are climatic/hydrologic conditions on the site typical for this time of year? Yes 🖌 No (If no, explain in Remarks.)							
Are Vegetation, Soil, or Hydrology	significantly disturbed? Are "No	rmal Circumst	ances" present?	Yes 🟒 No			
Are Vegetation, Soil, or Hydrology	naturally problematic? (If need	ed, explain an	y answers in Remark	<s.)< td=""></s.)<>			

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes No 🟒									
Hydric Soil Present?	Yes No 🟒	Is the Sampled Area within a Wetland?	Yes No 🟒							
Wetland Hydrology Present?	Yes No _	lf yes, optional Wetland Site ID:								
Remarks: (Explain alternative procedures here or in a separate report)										
TRC covertype is UPL.										

Wetland Hydrology Indicators:				
Primary Indicators (minimum of on	e is required; check all th	<u>at apply)</u>	Secondary Indicators (minimum o	<u>f two required)</u>
Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2)	Water-S Aquatic Marl De Hydroge Oxidized	tained Leaves (B9) Fauna (B13) posits (B15) en Sulfide Odor (C1) d Rhizospheres on Living Roots (C3)	 Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Im 	agery (C9)
Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Ima Sparsely Vegetated Concave Su	Presenc Recent I Thin Mu agery (B7) Other (E rface (B8)	e of Reduced Iron (C4) ron Reduction in Tilled Soils (C6) ick Surface (C7) ixplain in Remarks)	 Stunted or Stressed Plants (D1 Geomorphic Position (D2) Shallow Aquitard (D3) Microtopographic Relief (D4) FAC-Neutral Test (D5))
Field Observations:				
Surface Water Present?	Yes No 🟒	Depth (inches):		
Water Table Present?	Yes No 🟒	Depth (inches):	Wetland Hydrology Present?	Yes No 🟒
Saturation Present?	Yes No 🟒	Depth (inches):		
(includes capillary fringe)			_	
Describe Recorded Data (stream ga	auge, monitoring well, ae	rial photos, previous inspections), if	available:	

Sampling Point: W-AJF-06; UPL-1

Indicator Status	Dominance Test worksheet: Number of Dominant Species That	2	(A)	
	Total Number of Dominant Species	4	(B)	
	Percent of Dominant Species That	50	(A/B)	
	Prevalence Index worksheet:			
	- Total % Cover of:	Multiply	Bv:	
	- OBL species 0	x 1 =	- <u></u> 0	
ver	FACW species 30	x 2 =	60	
	FAC species 10	x 3 =	30	
	- FACU species 30	× 4 =	120	
	– LIPI species 35	×5=	175	
	- Column Totals	(A)	20E (D)	
		(A)	363 (B)	
	Hydrophytic Vegetation Indicators:			
	1- Rapid Test for Hydrophytic V	√egetation		
ver	2 - Dominance Test is > 50%			
	3 - Prevalence Index is $\leq 3.0^{1}$			
UPL	4 - Morphological Adaptations	¹ (Provide s	supporting	
FACU	– data in Remarks or on a separate sl	neet)		
FACW	– Problematic Hydrophytic Vege	tation ¹ (Ex	plain)	
	'Indicators of hydric soil and wetland hydrology r			
	present, unless disturbed of proble	matic		
	_ Definitions of vegetation strata:			
	_ Iree – woody plants 3 in. (7.6 cm) o	r more in c Deight	llameter at	
	Sanling/shrub - Woody plants less t	rhan 3 in F	NRH and	
	greater than or equal to 3.28 ft (1 m) tall			
	- Herb - All herbaceous (non-woody)	plants, reg	egardless of	
	size, and woody plants less than 3.2	28 ft tall.	,ur aress or	
	- Woody vines – All woody vines grea	ter than 3.	28 ft in	
	height.			
ver	Hydrophytic Vegetation Present?	Yes N	lo 🖌	
EAC	,	· · ·	·•	
FAC	-			
	-			
	-			
	_			
ver				
vei	r			

Sampling Point: <u>W-AJF-06; UPL-1</u>

rofile Des	cription: (Describe	to the de	epth needed to do Reday	cum Foot	nent the i	ndicator	or confirm the a	bsence of indicators.	.)		
inches)	Color (moist)	06	Color (moist)	1-Ea	Type1		То	vturo		Pomarks	
		100		70	туре	LUC		(Cilt Loom		Remarks	
0-14	101R 3/3	100		—			Graveny				
14 - 18	10YR 3/4	100		—							
	-			—							
				_							
							-				
				_							
	Concentration D =	Denletic	n RM = Reduced	Mat	rix MS =	Masked	Sand Grains 21	ocation: PL = Pore Li	ning M =	Matrix	
ype. c v	Indicators:	Depictic	n, nim neduced	wiat	17, 1915	Maskea		Indicators for Prok	lematic L	Watric Soile3:	
			Debarahua Bal	~~~ ~	urfaca (C	0) /1 00 1				iyunc sons".	
Histic F	ninedon (42)		Thin Dark Su	ow S face	(SQ) /I DD	D MID	1/149D	2 cm Muck (A1	0) (LRR K,	L, MLRA 149B)	
Black H	istic (A3)		Loamy Mucky	/ Mir	eral (F1))	Coast Prairie R	edox (A16	5) (LRR K, L, R)	
Hvdrog	en Sulfide (A4)		Loamy Glever	d Ma	trix (F2)		-)	5 cm Mucky Peat or Peat (S3) (LRR K, L, R)			
Stratifie	d Lavers (A5)		Depleted Mat	rix (l	F3)			Dark Surface (S7) (LRR K, L)			
_ Deplete	d Below Dark Surfa	ace (A11) Redox Dark S	urfa	ce (F6)			Polyvalue Below Surface (S8) (LRR K, L)			
_ Thick D	ark Surface (A12)		Depleted Dar	k Su	rface (F7)			Thin Dark Surfa	ace (S9) (L	.RR K, L)	
_ _ Sandy N	Aucky Mineral (S1)		Redox Depres	ssior	ns (F8)			Iron-Manganese Masses (F12) (LRR K, L, R)			
Sandy (Gleyed Matrix (S4)							Piedmont Floo	dplain So	ils (F19) (MLRA 149B)	
Sandy F	Redox (S5)							Mesic Spodic (IA6) (MLR	A 144A, 145, 149B)	
 Strippe	d Matrix (S6)							Red Parent Ma	terial (F2	l) (TE10)	
Dark Su	Irface (S7) (LRR R, N	ILRA 14	9B)					Very Shallow D	ark Surfa	ce (1F12)	
								Other (Explain	in Remar	KS)	
ndicators	of hydrophytic veg	etation a	and wetland hydr	olog	y must be	e presen	t, unless disturbe	d or problematic.			
estrictive	Layer (II observed):		News			L Is a share of	C .: I D		Me e		
	Туре:		None			Hydric	Soil Present?		Yes	_ NO	
	Depth (inches):										
emarks:											


Project/Site: High River	City/County: Florida, Montgo	omery County	Sampling Date: 201	17-July-18
Applicant/Owner: NextEra		State: New York	Sampling Point: W-AJ	F-07; PFO-1
Investigator(s): Anthony Froonjian, AJV	N Sec	tion, Township, Range:		
Landform (hillslope, terrace, etc.):	errace Local relief	(concave, convex, none):	Concave	Slope (%): 2-5
Subregion (LRR or MLRA): LRR L	Lat:	42.8846146 Long:	-74.1452003	Datum: WGS84
Soil Map Unit Name: Lansing silt loam	n, 8 to 15 percent slopes (LaC)		NWI classification	n:
Are climatic/hydrologic conditions on the	e site typical for this time of year?	Yes 🟒 No (If n	o, explain in Remarks.)	
Are Vegetation, Soil, or H	lydrology significantly disturbed?	Are "Normal Circums	tances" present?	Yes 🟒 No
Are Vegetation, Soil, or H	lydrology naturally problematic?	(If needed, explain ar	ny answers in Remarks.	.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present?	Yes 🧹 No Yes 🖌 No	Is the Sampled Area within a Wetland?	Yes 🖌 No
Wetland Hydrology Present?	Yes _ 🗸 No	If yes, optional Wetland Site ID:	W-AJF-07
Remarks: (Explain alternative procedur	es here or in a separate re	port)	
TRC covertype is PFO.			

Wetland Hydrology Indicators:				
Primary Indicators (minimum of o	ne is required; che	Secondary Indicators (minimum of two required)		
Surface Water (A1) _✓ High Water Table (A2) _✓ Saturation (A3) Water Marks (B1) Sediment Deposits (B2)		Water-Stained Leaves (B9) Aquatic Fauna (B13) Marl Deposits (B15) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living	Roots (C3)	Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imageny (C9)
✓ Drift Deposits (B3) Presence of Reduced Iron (C4) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Iron Deposits (B5) Thin Muck Surface (C7) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8)				
Field Observations:	. ,			
Surface Water Present?	Yes No 🟒	Depth (inches):		
Water Table Present?	Yes 🟒 No 🔄	Depth (inches):	10	Wetland Hydrology Present? Yes No
Saturation Present?	Yes 🟒 No 🔄	Depth (inches):	0	_
(includes capillary fringe)				
Describe Recorded Data (stream g	gauge, monitoring	well, aerial photos, previous insp	pections), if	available:

Sampling Point: W-AJF-07; PFO-1

Incerstration (Not size:) 1. Tsuga canadensis 2. Acer saccharum 3	% Cover 45 40	Species? Yes	Status FACU	Are OBL, FACW, or FAC	Species That ::	3	(A)
I. Tsuga canadensis 2. Acer saccharum 3.	45 40	Yes	FACU	Are OBL, FACW, or FAC			
2. <u>Acer saccharum</u> 3	40	Voc		Are OBL, FACW, OF FAC.			
3.		163	FACU	Across All Strata:		5	(B)
4				Percent of Dominant S	pecies That		(4 (D)
4				Are OBL, FACW, or FAC		60	(A/B)
5				 Prevalence Index work 	sheet:		
7				- <u>Total % Cover</u>	of:	Multiply	<u>By:</u>
/		- Total Cov	or	OBL species	0	x 1 =	0
Saaling/Shrub Stratum (Blot size: 15 ft)		- 10tai COV	ei	FACW species	70	x 2 =	140
<u>Saping/Siliub Stratum</u> (Flot Size. <u>15 it</u>)	10	Voc		FAC species	23	x 3 =	69
1. Ribes americanum		Voc		- FACU species	95	x 4 =	380
2. Carya coruliornins			FAC	UPL species	0	x 5 =	0
3. Betula allegnaniensis	3	NO	FAC	Column Totals	188	(A)	589 (B)
4				Prevalence li	ndex = B/A =	3.1	
6				Hydrophytic Vegetatio	n Indicators:		
7				1- Rapid Test for	Hydrophytic V	/egetation	
/		- Tatal Cau		2 - Dominance Te	st is >50%		
Harb Stratum (Plat size) Eft	10	- 10tal COV	er	3 - Prevalence Inc	dex is $\leq 3.0^1$		
Herb Stratum (Plot Size:)	60	Vec		4 - Morphologica	Adaptations	(Provide	supporting
1. Onocied sensibilits		No		– data in Remarks or on	a separate sh	leet)	
			FAC	Problematic Hydi	rophytic Vege	tation ¹ (Ex	plain)
3. Circaea canadensis			FACU	 ¹Indicators of hydric so 	oil and wetlan	d hydrolog	gy must be
4. Toxicodenaron radicans			FAC	_ present, unless disturb	bed or proble	matic	
s. Partnenocissus quinquerona	3	NO	FACU	Definitions of Vegetation	on Strata:		
o				_ Tree – Woody plants 3	in. (7.6 cm) oi	r more in o aight	diameter at
/				- Sapling (shrub - Wood	garuless of fi	eigni. ban 2 in F	Diland
8				greater than or equal t	o 3 28 ft (1 m) tall	лы апа
9				Herb – All herbaceous	(non-woody)	nlants reg	ardless of
10				size, and woody plants	less than 3.2	8 ft tall.	Sar aress or
12				Woody vines - All woo	dy vines great	ter than 3.	28 ft in
12		Tatal Car		height.	, 0		
	85	= lotal Cov	er	Hydrophytic Vegetatic	on Present?	(es 🖌 N	0
Woody Vine Stratum (Plot size: <u>30 ft</u>)							
I				-			
2				-			
3				-			
4				-			
	0	= Total Cov	er				

Sampling Point: W-AJF-07; PFO-1

Profile Des	cription: (Describe 1 Matrix	to the d	lepth needed to o	docun (Foot	nent the i	indicator or confirm t	he absence of indicator	's.)
(inches)	Color (moist)	06	Color (moist)	06			Toyturo	Bemarks
		<u>- 70</u> OE		1 5	<u>Type</u>	 		Remarks
0-10	TUTK 5/2	05	7.518 5/4	15	<u> </u>			
				·				
				·				
				·				
				·				
Type: C = C	Concentration, D = I	Depleti	on, RM = Reduce	d Mat	rix, MS =	Masked Sand Grains.	² Location: PL = Pore	Lining, M = Matrix.
Hydric Soil	Indicators:						Indicators for Pro	oblematic Hydric Soils ³ :
Histoso	I (A1)		Polyvalue Be	elow S	Surface (S	58) (LRR R, MLRA 149E) 2 cm Muck (A	10) (LRR K, L, MLRA 149B)
Histic Ep	Dipedon (A2)		Thin Dark Su	urface	(S9) (LRF	(R, MLRA 149B)	Coast Prairie	Redox (A16) (LRR K, L, R)
Hydrog	n Sulfide (A1)			d Ma	triv (E2)	(LKK K, L)	5 cm Mucky F	Peat or Peat (S3) (LRR K, L, R)
Stratifie	d Lavers (A5)		✓ Depleted M	atrix (E3)		Dark Surface	(S7) (LRR K, L)
Deplete	d Below Dark Surfa	ace (A1	1) Redox Dark	Surfa	ce (F6)		Polyvalue Bel	ow Surface (S8) (LRR K, L)
Thick Da	ark Surface (A12)	·	Depleted Da	ırk Su	rface (F7))	Thin Dark Sur	face (S9) (LRR K, L)
Sandy N	lucky Mineral (S1)		Redox Depr	essior	ns (F8)		Iron-Mangan	ese Masses (F12) (LRR K, L, R)
Sandy C	Gleyed Matrix (S4)						Pleamont Flo	(TAG) (MI DA 144A 145 149B)
Sandy F	Redox (S5)						Mesic Spould	(1A0) (MERA 144A, 143, 149B)
Strippe	d Matrix (S6)						Very Shallow	Dark Surface (TE12)
Dark Su	rface (S7) (LRR R, N	ILRA 14	19B)				Other (Explain	n in Remarks)
andicators	of hydrophytic yog	otation	and wetland by	rolog	v must b	o procont uplace dist	urbed or problematic	
	l aver (if observed):	etation	and wettand hyd	li ulug	y must b	e present, uniess dist	dibed of problematic.	
Resultave	Type.		None			Hydric Soil Present?		Ves / No
	Depth (inches):		None			inyune son rresent:		
Domorkei	Depth (inches).							
Remarks:								



Project/Site: High River			City/County: Floric	da, Montgo	mery Cour	nty	Sampling Date:	2017-July-18
Applicant/Owner: Next	tEra				State:	New York	Sampling Point:	W-AJF-07; UPL-1
Investigator(s): Anthon	y Froonjian,	AJW		Sec	tion, Towns	hip, Range:		
Landform (hillslope, terra	ice, etc.):	Тое	I	Local relief	(concave,	convex, none):	Convex	Slope (%): 15-20
Subregion (LRR or MLRA):	LRR L			Lat:	42.884527	73 Long:	-74.1452705	Datum: WGS84
Soil Map Unit Name: La	ansing silt lo.	am, 3 to 8 perce	ent slopes (LaC)				NWI classific	cation:
Are climatic/hydrologic co	onditions on	the site typical f	for this time of yea	ır?	Yes 🖌	_ No (If n	o, explain in Rema	rks.)
Are Vegetation, So	oil, C	r Hydrology	significantly dist	turbed?	Are "N	ormal Circums	stances" present?	Yes 🟒 No
Are Vegetation, So	oil, C	r Hydrology	naturally proble	ematic?	(If nee	ded, explain ar	ny answers in Rem	arks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes No 🟒		
Hydric Soil Present?	Yes No 🟒	Is the Sampled Area within a Wetland?	Yes No 🟒
Wetland Hydrology Present?	Yes No 🟒	lf yes, optional Wetland Site ID:	
Remarks: (Explain alternative procedures her	e or in a separate report)	
TRC covertype is UPL.			
51			

Primary Indicators (minimum of one is required; check all that apply) Secondary Indicators (
	<u>idicators (minimum of two required)</u>
	oil Cracks (B6) Patterns (B10) n Lines (B16) on Water Table (C2) Burrows (C8) n Visible on Aerial Imagery (C9)
Field Observations: Surface Water Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:	or Stressed Plants (D1) Shic Position (D2) Aquitard (D3) ographic Relief (D4) tral Test (D5)
Surface Water Present? Yes No _ ✓ Depth (inches): Water Table Present? Yes No _ ✓ Depth (inches): Saturation Present? Yes No _ ✓ Depth (inches): (includes capillary fringe)	
Water Table Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
Saturation Present? Yes No Depth (inches): (includes capillary fringe)	Irology Present? Yes No
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	

Sampling Point: W-AJF-07; UPL-1

Tree Stratum (Plot size: 30 ft)	Absolute	Dominant	Indicator	Dominance Test works	sheet:		
	% Cover	Species?	Status	Number of Dominant Species That		1	(A)
1. Acer saccharum	80	Yes	FACU	Are OBL, FACW, or FAC	2:		
2. <i>Fagus grandifolia</i>	10	No	FACU	Total Number of Domi	inant Species	5	(B)
3. <i>Tsuga canadensis</i>	5	No	FACU	Across All Strata:			
4						20	(A/B)
5				Prevalence Index work	(sheet:		
6				- Total % Cover	r of	Multinly	Bv:
7				- OBL species	0	x 1 =	<u>.</u> 0
	95	= Total Cov	er	FACW species	0	x 2 =	0
Sapling/Shrub Stratum (Plot size: <u>15 ft</u>)				FAC species	30	x 3 =	90
1. <i>Fraxinus americana</i>	30	Yes	FACU	FACU species	151	× 4 =	604
2. <i>Fagus grandifolia</i>	15	Yes	FACU		15	× 5 =	75
3. <u>Betula alleghaniensis</u>	10	No	FAC	Column Totals	196	(A) _	769 (B)
4. <i>Viburnum acerifolium</i>	5	No	UPL	Prevalence I	ndev = B/A =	39	705 (D)
5							
6				Hydrophytic Vegetatio	n Indicators:	/	
7.				1- Rapid Test for	Hydropnytic v	/egetation	
	60	= Total Cov	er	2 - Dominance re	dov ic = 2.01		
<u>Herb Stratum</u> (Plot size: <u>5 ft.</u>)		-		5 - Prevalence in	$dex IS \leq 5.0^{\circ}$	1 (Drovida	cupporting
1. Dryopteris intermedia	20	Yes	FAC	4 - Morphologica	a sonarato sh	(Provide	supporting
2. Viburnum acerifolium	10	Yes	UPL	Problematic Hyd	ronhytic Vege	tation ¹ (Ex	nlain)
3. Parthenocissus quinquefolia	8	No	FACU	¹ Indicators of hydric so	nil and wetlan	d hydrolo	ov must he
4. Fraxinus americana	3	No	FACU	present, unless distur	bed or probler	matic	Symustic
5.				Definitions of Vegetati	on Strata:		
6.				Tree – Woody plants 3	in. (7.6 cm) or	r more in o	diameter at
7.				breast height (DBH), re	egardless of h	eight.	
8.				Sapling/shrub - Wood	y plants less tl	han 3 in. D	OBH and
9.				greater than or equal	to 3.28 ft (1 m) tall.	
10.				Herb – All herbaceous	(non-woody)	plants, reg	gardless of
11.				size, and woody plants	s less than 3.2	8 ft tall.	
12.				Woody vines – All woo	ody vines great	ter than 3.	28 ft in
	41	= Total Cov	er	height.			
Woody Vine Stratum (Plot size:30 ft)		-		Hydrophytic Vegetation	on Present?	Yes N	lo 🟒
1.							
2.				-			
3.				-			
4.				-			
	0	= Total Cov	er	-			
Pomorka (Includo photo numbero horo er er e		-					
Remarks: Unclude photo numbers here or on a se	parate sneet.)						

Sampling Point: <u>W-AJF-07; UPL-1</u>

	Color (moist)	%	Color (moist)	%	Type ¹	Loc ² Te	exture	Remarks
0 - 7	10YR 3/3	100				Sil	t Loam	
7 - 16	10YR 4/4	100				Gravel	y Silt Loam	
pe: C = C dric Soil '	Concentration, D = Indicators:	Depletio	n, RM = Reduced	Matr	ix, MS = I	Masked Sand Grains. ² L	ocation: PL = Pore Li Indicators for Prol	ning, M = Matrix. blematic Hydric Soils³:
Histosol	(A1)		Polyvalue Be	low S	urface (S	8) (LRR R, MLRA 149B)	2 cm Muck (A1	
Histic Ep	pipedon (A2)		Thin Dark Su	rface	(S9) (LRR	R, MLRA 149B)	Coast Prairie R	Redox (A16) (LRR K. L. R)
Black Hi	stic (A3)		Loamy Muck	y Min	eral (F1)	(LRR K, L)	5 cm Mucky Pe	eat or Peat (S3) (LRR K, L, R)
Hydroge	en Sulfide (A4)		Loamy Gleye	d Ma	trix (F2)		Dark Surface (S7) (LRR K, L)
Stratifie	d Layers (A5) d Bolow Dark Surfa	000 (111)	Depleted Ma	trix (F	-3) -a (E6)		Polyvalue Belo	w Surface (S8) (LRR K, L)
Thick D:	u Below Dark Surra ark Surface (A12)	ice (ATT)	Depleted Dark	k Su	face (FO)		Thin Dark Surf	ace (S9) (LRR K, L)
Sandy M	Aucky Mineral (S1)		Bedox Depre	ssion	s (F8)		Iron-Mangane	se Masses (F12) (LRR K, L, R)
Sandy G	loved Matrix (S4)			33101	3 (10)		Piedmont Floo	dplain Soils (F19) (MLRA 149B)
Sandy E	adox (SE)						Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
	Hatrix (SC)						Red Parent Ma	aterial (F21)
_ Dark Su	rface (S7) (LRR R, M	ILRA 149	9B)				Very Shallow E Other (Explain	Dark Surface (TF12) in Remarks)
dicators strictive l	of hydrophytic veg	etation a	and wetland hydr	ology	/ must be	e present, unless disturbe	ed or problematic.	
	Type:		None			Hydric Soil Present?		Yes No /
	iypc.		None	•		ingune son i resent.		
	Depth (inches):							
marke	Depth (inches):							
narks:	Depth (inches):							
narks:	Depth (inches):							
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narks:	Depth (inches):							



Project/Site: High River	City/County:	Amsterdam, Montgomer	y County	Sampling Date: 2	017-July-19
Applicant/Owner: NextEra		State	: New York	Sampling Point: W-	AJF-08; PFO-1
Investigator(s): Anthony Froonjian	n, AJW	Section, Tow	nship, Range:		
Landform (hillslope, terrace, etc.):	Swale	Local relief (concave	, convex, none):	Concave	Slope (%): 2-5
Subregion (LRR or MLRA):	L	Lat: 42.8883	909 Long:	-74.1465875	Datum: WGS84
Soil Map Unit Name: _ Appleton sil	t loam, 3 to 8 percent slopes (АрВ)		NWI classificat	ion:
Are climatic/hydrologic conditions o	n the site typical for this time	of year? Yes	🖊 No (If n	o, explain in Remarks	5.)
Are Vegetation, Soil,	or Hydrology significant	tly disturbed? Are "	Normal Circums	tances" present?	Yes 🟒 No
Are Vegetation, Soil,	or Hydrology naturally	problematic? (If ne	eded, explain ar	ny answers in Remark	<s.)< td=""></s.)<>

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes 🟒 No		
Hydric Soil Present?	Yes 🟒 No	Is the Sampled Area within a Wetland?	Yes 🟒 No
Wetland Hydrology Present?	Yes 🟒 No	If yes, optional Wetland Site ID:	W-AJF-08
Remarks: (Explain alternative procedur	es here or in a separate rep	port)	
TRC covertype is PEO			

Wetland Hydrology Indicators:						
Primary Indicators (minimum of o	ne is required; chec	<u>ck all that apply)</u>		Secondary Indicators (minimum of two required)		
Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2)	W A M H C	Vater-Stained Leaves (B9) .quatic Fauna (B13) /arl Deposits (B15) lydrogen Sulfide Odor (C1))xidized Rhizospheres on Living	Roots (C3)	 Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Assiel Imagenu (C0) 		
Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Im Sparsely Vegetated Concave Si	P R Ti agery (B7) O urface (B8)	resence of Reduced Iron (C4) lecent Iron Reduction in Tilled So hin Muck Surface (C7) Other (Explain in Remarks)	bils (C6)	Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1) ✓ Geomorphic Position (D2) Shallow Aquitard (D3) Microtopographic Relief (D4) ✓ C Neutral Text (DE)		
Field Observations:	2.1000 (20)					
Surface Water Present?	Yes No 🟒	Depth (inches):				
Water Table Present?	Yes 🟒 No	Depth (inches):	9	Wetland Hydrology Present? Yes No		
Saturation Present?	Yes 🟒 No	Depth (inches):	0			
(includes capillary fringe)						
Describe Recorded Data (stream g	;auge, monitoring w	vell, aerial photos, previous insp	ections), if	available:		

Sampling Point: W-AJF-08; PFO-1

Tree Stratum (Plot size: <u>30 ft</u>)	Absolute	Dominant	Indicator	Dominance Test works	heet:			
	% Cover	Species?	Status		Species That	6	(A)	
1. Acer rubrum	35	Yes	FAC	Total Number of Domi	 nant Snecies			
2. Fraxinus americana	20	Yes	FACU	Across All Strata:	nanc species	7	(B)	
3		<u> </u>		Percent of Dominant Species That				
4				- Are OBL, FACW, or FAC:		85.7	(A/B)	
5				 Prevalence Index worksheet: 				
6				Total % Cover	of:	Multiply	By:	
7				OBL species	25	x 1 =	25	
	55	= Total Cov	er	FACW species	53	x 2 =	106	
Sapling/Shrub Stratum (Plot size: <u>15 ft</u>)				FAC species	100	x 3 =	300	
1. Cornus racemosa	30	Yes	FAC	FACU species	30	x 4 =	120	
2. Frangula alnus	20	Yes	FAC	UPL species	0	x 5 =	0	
3. <u>Viburnum lentago</u>	15	Yes	FAC	Column Totals	208	(A)	551 (B)	
4. <i>Rosa multiflora</i>	5	No	FACU	Prevalence I	ndex = B/A =	26	001 (0)	
5						2.0		
6				Hydrophylic Vegetalio	n indicators:	lagatation		
7				1- Rapid Test for	nyuropnyuc v	egetation		
	70	= Total Cov	er	Z - Dominance lest is >50%				
Herb Stratum (Plot size: <u>5 ft.</u>)		-		3 - Prevalence inc	Jex IS ≤ 3.0'	(Due viele)		
1. Onoclea sensibilis	25	Yes	FACW	4 - Morphologica	a soparato sh	(Provide s	supporting	
2. Carex annectens	20	Yes	FACW	Problematic Hyd	a separate sin	tation1 (Ev	nlain)	
3. <i>Carex lurida</i>	15	No	OBL	Indicators of hydric so	nil and wetlan	d hydrolog	y must he	
4. Scirpus hattorianus	10	No	OBL	present, unless disturb	ped or probler	natic	Sy must be	
5. Phalaris arundinacea	8	No	FACW	Definitions of Vegetati	on Strata:			
6. <i>Phleum pratense</i>	5	No	FACU	Tree – Woody plants 3	in. (7.6 cm) or	more in c	liameter at	
7.				breast height (DBH), re	egardless of h	eight.		
8.				Sapling/shrub - Wood	y plants less tl	han 3 in. D	BH and	
9.				greater than or equal	to 3.28 ft (1 m) tall.		
10.				Herb – All herbaceous	(non-woody)	plants, reg	ardless of	
11.				size, and woody plants	less than 3.2	8 ft tall.		
12				Woody vines - All woo	dy vines great	er than 3.	28 ft in	
	83	= Total Cov	er	height.				
Woody Vine Stratum (Plot size: 30 ft)		-		Hydrophytic Vegetatio	on Present?	/es 🟒 N	0	
1								
2		·						
2		·						
		<u> </u>						
4		- Total Cav						
	0		er					
Remarks: (Include photo numbers here or on a separate	e sheet.)							

Profile Desc	ription: (Describe t	o the o	depth needed to o	docun (Feat	nent the i	indicator	or confirm the al	bsence of indicat	ors.)
(inches)	Color (moist)	06	Color (moist)	06 06	Type1	Loc2	Text	Iro	Remarks
0 - 6	2 5¥ 3/1	95	7 5YR 6/6	5	<u> </u>	 M	Silty Clay	/Loam	Kemarks
6 - 18	2.57 5/2	90	7.5YR 6/8	10		M	Silty Clay	/Loam	
	2.51 5/2		7.511(0/0				Jilly Cluy	Loan	
		·		·					
		· —		· —					
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				·					
1T:		. <u> </u>	an DM - Deduce	- <u> </u>			Canad Creating 21		
$\frac{1}{2}$	oncentration, $D = 1$	Jepiet	ion, RIVI = Reduce	a Mat	rix, ivis =	Masked	Sand Grains. ² Lo	ocation: PL = Por	e Lining, M = Matrix.
Hydric Soil I	ndicators:		Daharahaa D					Indicators for P	roblematic Hydric Solls ³ :
HISTOSOI	(AT)		Thin Dark St	rfaco	(Sa) (I DE	O) (LKK H	(, IVILKA 1498) 1498)	2 cm Muck	(A10) (LRR K, L, MLRA 149B)
Black Hi	stic (A3)			w Mir	(39) (EKF neral (F1)	IRRK I)	Coast Prairi	e Redox (A16) (LRR K, L, R)
Hydroge	n Sulfide (A4)		Loamy Gley	ed Ma	trix (F2)	(-)	5 cm Mucky	/ Peat or Peat (S3) (LRR K, L, R)
Stratified	Layers (A5)		Depleted M	atrix (l	F3)			Dark Surfac	e (S7) (LRR K, L)
Depleted	d Below Dark Surfa	ice (A1	1) Redox Dark	Surfa	ce (F6)			Polyvalue B	
Thick Da	rk Surface (A12)		Depleted Da	ark Su	rface (F7))		Inin Dark 3	(LRK R, L)
Sandy M	ucky Mineral (S1)		Redox Depr	essior	ns (F8)			Piedmont F	loodplain Soils (F19) (MI RA 149B)
Sandy G	leyed Matrix (S4)							Mesic Spod	ic (TA6) (MLRA 144A, 145, 149B)
Sandy R	edox (S5)							Red Parent	Material (F21)
Stripped	Matrix (S6)							Very Shallov	w Dark Surface (TF12)
Dark Su	face (S7) (LRR R, N	ILRA 14	49B)					Other (Expl	ain in Remarks)
³ Indicators of	of hydrophytic veg	etatior	and wetland hyd	Irolog	y must b	e presen	t, unless disturbe	d or problematic	
Restrictive L	ayer (if observed):								
	Туре:		None			Hydric	Soil Present?		Yes 🟒 No
	Depth (inches):			_					
Refiferes.									



Project/Site: High River	City/County: Amsterdam, Mo	ontgomery County	Sampling Date: 2017-July-19						
Applicant/Owner: NextEra		State: New York	Sampling Point: W-AJ	F-08; UPL-1					
Investigator(s): Anthony Froonjian, AJW Section, Township, Range:									
Landform (hillslope, terrace, etc.): Hilltop	Local relief	(concave, convex, none):	None	Slope (%): 5-10					
Subregion (LRR or MLRA): LRR L	Lat:	42.8882909 Long:	-74.1466977	Datum: WGS84					
Soil Map Unit Name: Appleton silt loam, 3 to 8 pe	ercent slopes (ApB)		NWI classificatio	n:					
Are climatic/hydrologic conditions on the site typica	l for this time of year?	Yes 🟒 No (If n	o, explain in Remarks.)						
Are Vegetation, Soil, or Hydrology _	significantly disturbed?	Are "Normal Circums	tances" present?	Yes 🟒 No					
Are Vegetation, Soil, or Hydrology _	naturally problematic?	(If needed, explain ar	ny answers in Remarks.	.)					

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes No 🟒								
Hydric Soil Present?	Yes No 🟒	Is the Sampled Area within a Wetland?	Yes No 🟒						
Wetland Hydrology Present?	Yes No 🟒	lf yes, optional Wetland Site ID:							
temarks: (Explain alternative procedures here or in a separate report)									
TRC covertype is UPL.									
51									

Wetland Hydrology Indicators:					
Primary Indicators (minimum of on	e is required; check all that	apply)	Secondary Indicators (minimum of	<u>f two required)</u>	
 Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) 	Water-Stai Aquatic Fa Marl Depo Hydrogen Oxidized R	ned Leaves (B9) una (B13) sits (B15) Sulfide Odor (C1) hizospheres on Living Roots (C3)	 Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8) 		
 Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Ima Sparsely Vegetated Concave Sur 	Presence of Recent Iro Thin Muck gery (B7) Other (Exp rface (B8)	of Reduced Iron (C4) n Reduction in Tilled Soils (C6) Surface (C7) lain in Remarks)	 Stunted or Stressed Plants (D1) Geomorphic Position (D2) Shallow Aquitard (D3) Microtopographic Relief (D4) FAC-Neutral Test (D5))	
Field Observations:					
Surface Water Present?	Yes No 🟒	Depth (inches):			
Water Table Present?	Yes No 🟒	Depth (inches):	Wetland Hydrology Present?	Yes No 🟒	
Saturation Present?	Yes No 🟒	Depth (inches):			
(includes capillary fringe)			-		
Describe Recorded Data (stream ga	auge, monitoring well, aeria	l photos, previous inspections), if a	available:		

Sampling Point: W-AJF-08; UPL-1

Tree Stratum (Plot size: 30 ft)	Absolute	Dominant	Indicator	Dominance Test works	neet:		
1	% Cover	Species?	Status	Are OBL, FACW, or FAC:	pecies That	1	(A)
2.		·		Total Number of Domir	ant Species	3	(B)
3.				Across All Strata:			(D)
4.				Percent of Dominant S	pecies That	33.3	(A/B)
5				Prevalence Index works	sheet.		
6				Total % Cover	of:	Multiply	Bv:
7				- OBL species	0	x 1 =	0
	0	= Total Cov	er	FACW species	30	x 2 =	60
Sapling/Shrub Stratum (Plot size: <u>15 ft</u>)				FAC species	0	x 3 =	0
1				- FACU species	45	x 4 =	180
2				UPL species	25	x 5 =	125
3				Column Totals	100	(Δ) <u>–</u>	365 (B)
4				Prevalence In	idex = B/A =	3.7	303 (D)
5							
6				1- Rapid Test for F	lvdrophytic V	egetation	
7				2 - Dominance Tes	st is $> 50\%$	egetation	
	0	= Total Cov	er	3 - Prevalence Ind	$ex is < 3.0^{1}$		
Herb Stratum (Plot size: <u>5 ft.</u>)				4 - Morphological	Adaptations ¹	(Provide	supporting
1. <i>Phalaris arundinacea</i>	30	Yes	FACW	- data in Remarks or on a	a separate sh	leet)	sabber
2. Phleum pratense	25	Yes	FACU	Problematic Hydr	ophytic Vege	, tation¹ (Ex	plain)
3. <i>Dactylis glomerata</i>	20	Yes	FACU	¹ Indicators of hydric so	il and wetlan	d hydrolo	gy must be
4. Securigera varia	15	No	UPL	present, unless disturb	ed or probler	matic	
5. <i>Centaurea stoebe</i>	10	No	UPL	Definitions of Vegetation	on Strata:		
6				Tree – Woody plants 3 i	n. (7.6 cm) or	more in e	diameter at
7				breast height (DBH), re	gardless of h	eight.	
8				Sapling/shrub - Woody	plants less t	han 3 in. [OBH and
9				greater than or equal to	o 3.28 ft (1 m) tall.	
10				Herb – All herbaceous (non-woody)	plants, reg	gardless of
11				size, and woody plants	less than 3.2	8 ft tall.	
12				Woody vines – All wood	ly vines great	er than 3.	28 ft in
	100	= Total Cov	er	neight.			
Woody Vine Stratum (Plot size: <u>30 ft</u>)				Hydrophytic Vegetatio	n Present?	/es N	lo
1							
2							
3.							
4.							
	0	= Total Cov	er	-			
Remarks: (Include photo numbers here or on a separate	sheet)						
include proto numbers here or on a separate	sileet.)						

nches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0 - 6	10YR 3/3	100		<u></u>			Silt Loam	
5 - 16	10YR 4/3	100				·	Dire Logani	
						·		
				_				
				_				
						<u> </u>		
				_				
				-				
				_		<u> </u>		<u> </u>
						<u> </u>		
	Concentration D	<u> </u>	- DM Deduced	N 4 - 4				
e: C = 0	Concentration, D =	Depletio	n, RM = Reduced	wati	rix, IVIS =	Masked Sand G	rains. ² Location	: PL = Pore Lining, M = Matrix.
ric Soil	Indicators:				<i>c i c</i>		Indica	ators for Problematic Hydric Soils ³ :
	I (A1)		Polyvalue Bel	ow S cfaca	urface (S	8) (LRR R, MLRA	149B)2	cm Muck (A10) (LRR K, L, MLRA 149B)
Riack H	istic (A3)			/ Min	(39) (LKK eral (E1) ((IRRKI)	C	oast Prairie Redox (A16) (LRR K, L, R)
Hvdrog	en Sulfide (A4)		Loamy Gleve	d Ma	trix (F2)		5	cm Mucky Peat or Peat (S3) (LRR K, L, R)
Stratifie	ed Lavers (A5)		Depleted Ma	trix (F	=3)		D	ark Surface (S7) (LRR K, L)
Deplete	ed Below Dark Surfa	ace (A11) Redox Dark S	urfa	ce (F6)		P	blyvalue Below Surface (S8) (LRR K, L)
' Thick D	ark Surface (A12)	•	Depleted Dar	k Sui	rface (F7)		T	nin Dark Surface (S9) (LRR K, L)
	Aucky Mineral (S1)		Redox Depre	ssion	is (F8)		Ir	on-Manganese Masses (F12) (LRR K, L, R)
Sandy r	viacity winter at (51)							
Sandy r Sandy (Gleyed Matrix (S4)						P	edmont Floodplain Soils (F19) (MLRA 149B)
Sandy i Sandy (Sandy i	Gleyed Matrix (S4) Redox (S5)						P	edmont Floodplain Soils (F19) (MLRA 149B) esic Spodic (TA6) (MLRA 144A, 145, 149B)
Sandy F Sandy G Sandy F Strippe	Gleyed Matrix (S4) Redox (S5) d Matrix (S6)						P N R	edmont Floodplain Soils (F19) (MLRA 149B) esic Spodic (TA6) (MLRA 144A, 145, 149B) ed Parent Material (F21)
Sandy F Sandy (Sandy F Strippe Dark Su	Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) (LRR R, N	ILRA 149	<u>—</u> ЭВ)				P N R V	edmont Floodplain Soils (F19) (MLRA 149B) esic Spodic (TA6) (MLRA 144A, 145, 149B) ed Parent Material (F21) ery Shallow Dark Surface (TF12) ther (Explain in Remarks)
Sandy F Sandy (Sandy F Strippe Dark Su	Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) (LRR R, N	ILRA 149)B)				P M R V O	edmont Floodplain Soils (F19) (MLRA 149B) esic Spodic (TA6) (MLRA 144A, 145, 149B) ed Parent Material (F21) ery Shallow Dark Surface (TF12) ther (Explain in Remarks)
Sandy F Sandy G Sandy F Strippe Dark Su dicators	Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) (LRR R, N of hydrophytic veg	ILRA 149	9B) and wetland hydr	ology	y must be	e present, unles:	P M R V O s disturbed or pr	edmont Floodplain Soils (F19) (MLRA 149B) esic Spodic (TA6) (MLRA 144A, 145, 149B) ed Parent Material (F21) ery Shallow Dark Surface (TF12) ther (Explain in Remarks) oblematic.
Sandy F Sandy F Sandy F Strippe Dark Su dicators trictive	Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) (LRR R, N of hydrophytic veg Layer (if observed) :	ILRA 149 etation a	9B) and wetland hydr	olog	y must be	e present, unles:	P M R V O s disturbed or pr	edmont Floodplain Soils (F19) (MLRA 149B) esic Spodic (TA6) (MLRA 144A, 145, 149B) ed Parent Material (F21) ery Shallow Dark Surface (TF12) ther (Explain in Remarks) oblematic.
Sandy (Sandy (Strippe Dark Su licators trictive	Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) (LRR R, M <u>of hydrophytic veg</u> Layer (if observed): Type:	ILRA 149	9B) and wetland hydr	olog	y must be	e present, unless	P M R V O s disturbed or pr sent?	edmont Floodplain Soils (F19) (MLRA 149B) esic Spodic (TA6) (MLRA 144A, 145, 149B) ed Parent Material (F21) ery Shallow Dark Surface (TF12) ther (Explain in Remarks) oblematic.
Sandy (Sandy (Sandy F Strippe Dark Su Dark Su Cators crictive	Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) (LRR R, M <u>of hydrophytic veg</u> Layer (if observed): Type: Depth (inches):	ILRA 149	9B) and wetland hydr None	olog	y must be	e present, unless Hydric Soil Pre	P M R V O s disturbed or pr sent?	edmont Floodplain Soils (F19) (MLRA 149B) esic Spodic (TA6) (MLRA 144A, 145, 149B) ed Parent Material (F21) ery Shallow Dark Surface (TF12) ther (Explain in Remarks) oblematic.
Gandy F Gandy F Gandy F Gark Su Cark Su	Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) (LRR R, M of hydrophytic veg Layer (if observed): Type: Depth (inches):	ILRA 149	9 B) and wetland hydr None	olog	y must be	e present, unles: Hydric Soil Pre	P N R V O s disturbed or pr sent?	edmont Floodplain Soils (F19) (MLRA 149B) lesic Spodic (TA6) (MLRA 144A, 145, 149B) ed Parent Material (F21) ery Shallow Dark Surface (TF12) ther (Explain in Remarks) oblematic.
Gandy F Gandy F Gandy F Gark Su Cators rictive arks:	Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) (LRR R, M of hydrophytic veg Layer (if observed): Type: Depth (inches):	ILRA 149	9B) and wetland hydr None	ology	y must be	e present, unles: Hydric Soil Pre	P M R V O s disturbed or pr sent?	edmont Floodplain Soils (F19) (MLRA 149B) lesic Spodic (TA6) (MLRA 144A, 145, 149B) ed Parent Material (F21) ery Shallow Dark Surface (TF12) ther (Explain in Remarks) oblematic.
Gandy F Gandy F Gandy F Gark Su Dark Su icators rictive	Gleyed Matrix (S4) Gleyed Matrix (S4) d Matrix (S6) urface (S7) (LRR R, M of hydrophytic veg Layer (if observed): Type: Depth (inches):	ILRA 149	9 B) and wetland hydr None	olog	y must be	e present, unles: Hydric Soil Pre	P M R V <u></u> O s disturbed or pr sent?	edmont Floodplain Soils (F19) (MLRA 149B) lesic Spodic (TA6) (MLRA 144A, 145, 149B) ed Parent Material (F21) ery Shallow Dark Surface (TF12) ther (Explain in Remarks) oblematic.
andy F Sandy F Sandy F Strippe Dark Su Cators rictive	Gleyed Matrix (S4) Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) (LRR R, M <u>of hydrophytic veg</u> Layer (if observed): Type: Depth (inches):	/ILRA 14 etation a	9 B) and wetland hydr None	olog	y must be	e present, unles: Hydric Soil Pre	P M R V O s disturbed or pr sent?	edmont Floodplain Soils (F19) (MLRA 149B) lesic Spodic (TA6) (MLRA 144A, 145, 149B) ed Parent Material (F21) ery Shallow Dark Surface (TF12) ther (Explain in Remarks) oblematic.
andy F andy G andy F trippe Dark Su cators rictive arks:	Gleyed Matrix (S4) Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) (LRR R, N of hydrophytic veg Layer (if observed): Type: Depth (inches):	ILRA 149	9 B) and wetland hydr None		y must be	e present, unless Hydric Soil Pre	P M R O s disturbed or pr sent?	edmont Floodplain Soils (F19) (MLRA 149B) esic Spodic (TA6) (MLRA 144A, 145, 149B) ed Parent Material (F21) ery Shallow Dark Surface (TF12) ther (Explain in Remarks) oblematic.
Gandy F Gandy G Gandy F Gtrippe Dark Su cators rictive	Gleyed Matrix (S4) Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) (LRR R, N of hydrophytic veg Layer (if observed): Type: 	ILRA 149	9 B) and wetland hydr None		y must be	e present, unles: Hydric Soil Pre	P M R O <u>s disturbed or pr</u> sent?	edmont Floodplain Soils (F19) (MLRA 149B) esic Spodic (TA6) (MLRA 144A, 145, 149B) ed Parent Material (F21) ery Shallow Dark Surface (TF12) ther (Explain in Remarks) oblematic.
Gandy F Gandy F Gardy F Gark Su Cators rictive arks:	Gleyed Matrix (S4) Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) (LRR R, N of hydrophytic veg Layer (if observed): Type: Depth (inches):	ILRA 149	9B) and wetland hydr None	olog	y must be	e present, unless	P M R O <u>s disturbed or pr</u> sent?	edmont Floodplain Soils (F19) (MLRA 149B lesic Spodic (TA6) (MLRA 144A, 145, 149B) ed Parent Material (F21) ery Shallow Dark Surface (TF12) ther (Explain in Remarks) oblematic.
Sandy F Sandy f Sandy F Strippe Dark Su licators trictive	Gleyed Matrix (S4) Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) (LRR R, N <u>of hydrophytic veg</u> Layer (if observed): Type: Depth (inches):	ILRA 149	9B) and wetland hydr None	olog	y must be	e present, unless	P M R V <u>s disturbed or pr</u> sent?	edmont Floodplain Soils (F19) (MLRA 149B) esic Spodic (TA6) (MLRA 144A, 145, 149B) ed Parent Material (F21) ery Shallow Dark Surface (TF12) ther (Explain in Remarks) oblematic.
Sandy F Sandy f Sandy F Strippe Dark Su icators trictive	Gleyed Matrix (S4) Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) (LRR R, N <u>of hydrophytic veg</u> Layer (if observed): Type: Depth (inches):	ILRA 149	9 B) and wetland hydr None	olog	y must be	e present, unless	P M R V O s disturbed or pr sent?	edmont Floodplain Soils (F19) (MLRA 149B) esic Spodic (TA6) (MLRA 144A, 145, 149B) ed Parent Material (F21) ery Shallow Dark Surface (TF12) ther (Explain in Remarks) oblematic.
Sandy F Sandy f Sandy F Strippe Dark Su icators trictive	Gleyed Matrix (S4) Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) (LRR R, N <u>of hydrophytic veg</u> Layer (if observed): Type: Depth (inches):	ILRA 149	9 B) and wetland hydr None		y must be	e present, unless	P M R V O s disturbed or pr sent?	edmont Floodplain Soils (F19) (MLRA 149B) lesic Spodic (TA6) (MLRA 144A, 145, 149B) ed Parent Material (F21) ery Shallow Dark Surface (TF12) ther (Explain in Remarks) oblematic.
Sandy F Sandy (Sandy F Strippe Dark Su icators trictive	Gleyed Matrix (S4) Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) (LRR R, N <u>of hydrophytic veg</u> Layer (if observed): Type: Depth (inches):	ILRA 145	9B) and wetland hydr None	olog	y must be	e present, unless	P M R V s disturbed or pr sent?	edmont Floodplain Soils (F19) (MLRA 149B) lesic Spodic (TA6) (MLRA 144A, 145, 149B) ed Parent Material (F21) ery Shallow Dark Surface (TF12) ther (Explain in Remarks) oblematic.
Sandy F Sandy (Sandy F Strippe Dark Su icators trictive	Gleyed Matrix (S4) Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) (LRR R, N <u>of hydrophytic veg</u> Layer (if observed): Type: Depth (inches):	ILRA 145	PB) and wetland hydr None		y must be	e present, unless Hydric Soil Pre	P M R V <u> O</u> s disturbed or pr sent?	edmont Floodplain Soils (F19) (MLRA 149B) lesic Spodic (TA6) (MLRA 144A, 145, 149B) ed Parent Material (F21) ery Shallow Dark Surface (TF12) ther (Explain in Remarks) oblematic.
Sandy F Sandy (Sandy F Strippe Dark Su licators trictive	Gleyed Matrix (S4) Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) (LRR R, N <u>of hydrophytic veg</u> Layer (if observed): Type: Depth (inches):	ILRA 14	PB) and wetland hydr None	olog	y must be	e present, unless	P M R V <u>s disturbed or pr</u> sent?	edmont Floodplain Soils (F19) (MLRA 149B) lesic Spodic (TA6) (MLRA 144A, 145, 149B) ed Parent Material (F21) ery Shallow Dark Surface (TF12) ther (Explain in Remarks) oblematic.
Sandy F Sandy (Sandy F Strippe Dark Su licators trictive	Gleyed Matrix (S4) Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) (LRR R, N <u>of hydrophytic veg</u> Layer (if observed): Type: Depth (inches):	ILRA 14	PB) and wetland hydr None	olog	y must be	e present, unless	P N R O s disturbed or pr sent?	edmont Floodplain Soils (F19) (MLRA 149B) lesic Spodic (TA6) (MLRA 144A, 145, 149B) ed Parent Material (F21) ery Shallow Dark Surface (TF12) ther (Explain in Remarks) oblematic.
Sandy F Sandy (Sandy F Strippe Dark Su licators trictive	Gleyed Matrix (S4) Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) (LRR R, N <u>of hydrophytic veg</u> Layer (if observed): Type: Depth (inches):	ILRA 14	2B) and wetland hydr None		y must be	e present, unles: Hydric Soil Pre	P N R O s disturbed or pr sent?	edmont Floodplain Soils (F19) (MLRA 149B) esic Spodic (TA6) (MLRA 144A, 145, 149B) ed Parent Material (F21) ery Shallow Dark Surface (TF12) ther (Explain in Remarks) oblematic.
Sandy F Sandy (Sandy F Strippe Dark Su dicators trictive	Glexy Mincra (ST) Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) (LRR R, M <u>of hydrophytic veg</u> Layer (if observed): Type: Depth (inches):	ILRA 14	2 B) and wetland hydr None	olog	y must be	e present, unles: Hydric Soil Pre	P N R V s disturbed or pr sent?	edmont Floodplain Soils (F19) (MLRA 149B) esic Spodic (TA6) (MLRA 144A, 145, 149B) ed Parent Material (F21) ery Shallow Dark Surface (TF12) ther (Explain in Remarks) oblematic. Yes No
Sandy F Sandy (Sandy F Strippe Dark Su licators trictive	Glexy Minclei (ST) Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) (LRR R, N of hydrophytic veg Layer (if observed): Type: 	ILRA 14	2B) and wetland hydr None	olog	y must be	e present, unles: Hydric Soil Pre	P N R V <u>O</u> s disturbed or pr sent?	edmont Floodplain Soils (F19) (MLRA 149B) esic Spodic (TA6) (MLRA 144A, 145, 149B) ed Parent Material (F21) ery Shallow Dark Surface (TF12) ther (Explain in Remarks) oblematic. Yes No<
Sandy F Sandy (Sandy F Strippe Dark Su icators trictive	Glexy Mincra (ST) Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) (LRR R, N of hydrophytic veg Layer (if observed): Type: 	ILRA 14	PB) and wetland hydr None	olog	y must be	e present, unles: Hydric Soil Pre	P N R V <u>O</u> s disturbed or pr sent?	edmont Floodplain Soils (F19) (MLRA 149B lesic Spodic (TA6) (MLRA 144A, 145, 149B) ed Parent Material (F21) ery Shallow Dark Surface (TF12) ther (Explain in Remarks) oblematic. Yes No<



Project/Site: High River		City/County: Amsterdam, Montgomery County						Sampling Date: 2017-July-19			
Applicant/Owner: NextEra						State: New York		Sa	Sampling Point: W-AJ		-09; PFO-1
Investigator(s): Anthony Froonjian, AJW Section, Township, Range:											
Landform (hillslope, ter	race, etc.):	Channel		Local re	elief	(concave, c	onvex, none	e):	Concave		Slope (%): 2-5
Subregion (LRR or MLR	A): LRR L				Lat:	42.895645	4 Lon	ng:7	74.1448018		Datum: WGS84
Soil Map Unit Name:	Appleton silt	loam, 3 to 8 pei	rcent slopes (A	АрВ)					NWI classifi	cation	:
Are climatic/hydrologic	conditions on	the site typical	for this time o	of year?		Yes 🖌	No (If	no, e	explain in Rema	arks.)	
Are Vegetation,	Soil,	or Hydrology	significantl	ly disturbed	?	Are "No	ormal Circun	mstar	nces" present?	Y	∕es∕_ No
Are Vegetation,	Soil,	or Hydrology	naturally p	roblematic?	•	(If need	led, explain	any a	answers in Rem	narks.)	

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes _ 🖌 🛛 No		
Hydric Soil Present?	Yes 🟒 No	Is the Sampled Area within a Wetland?	Yes 🯒 No
Wetland Hydrology Present?	Yes 🟒 No	If yes, optional Wetland Site ID:	W-AJF-09
Remarks: (Explain alternative procedures he	re or in a separate report)	
TRC covertype is PFO. horses			

Wetland Hydrology Indicators:						
Primary Indicators (minimum of or	ne is required; check all	that apply)		Secondary Indicators (minimum of two required)		
 Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) 	Water ∕ Aquat Marl I Hydro Oxidia	r-Stained Leaves (B9) tic Fauna (B13) Deposits (B15) ogen Sulfide Odor (C1) zed Rhizospheres on Living	; Roots (C3)	 Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8) 		
 Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Im Sparsely Vegetated Concave Summer Summ	Prese Recer Thin M agery (B7) Other urface (B8)	nce of Reduced Iron (C4) nt Iron Reduction in Tilled S Muck Surface (C7) · (Explain in Remarks)	oils (C6)	 Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1) Geomorphic Position (D2) Shallow Aquitard (D3) Microtopographic Relief (D4) Geometric Test (D5) 		
Field Observations:						
Surface Water Present?	Yes No 🟒	Depth (inches):				
Water Table Present?	Yes 🟒 No	Depth (inches):	8	- Wetland Hydrology Present? Yes _∠_ No		
Saturation Present?	Yes 🟒 No	Depth (inches):	2	_		
(includes capillary fringe)						
Describe Recorded Data (stream g	auge, monitoring well, a	aerial photos, previous ins	pections), if	available:		

Sampling Point: W-AJF-09; PFO-1

Tree Stratum (Plot size: <u>30 ft</u>)	Absolute % Cover	Dominant	Indicator Status	Dominance Test works	heet:		
1 Acer negundo	40	Ves	FAC	Are OBL, FACW, or FAC	:	5	(A)
2 Carva cordiformis	20	Ves	FAC	Total Number of Domir	hant Species		(D)
3		105	inc	Across All Strata:		5	(B)
۵. ۲		·		Percent of Dominant S	pecies That	100	(A/R)
5		<u> </u>		Are OBL, FACW, or FAC	:		(/ (/ D)
6		·		 Prevalence Index worksheet: 			
7.		·		- <u>Total % Cover</u>	<u>of:</u>	<u>Multiply</u>	<u>By:</u>
	60	= Total Cov	er	- OBL species -	7	x 1 =	7
Sanling/Shrub Stratum (Plot size: 15 ft)		-		FACW species	75	x 2 =	150
1. Frangula alnus	20	Yes	FAC	FAC species	110	x 3 =	330
2. Rosa multiflora		No	FACU	- FACU species _	18	x 4 =	72
3 Lonicera morrowii	3	No	FACU	- UPL species _	0	x 5 =	0
4			Inco	- Column Totals	210	(A)	559 (B)
۲۰ ۲				Prevalence Ir	ndex = B/A =	2.7	
5		·		Hydrophytic Vegetation	n Indicators:		
7		<u> </u>		1- Rapid Test for H	Hydrophytic V	/egetatior	1
7	20	- Total Cav	~r	2 - Dominance Te	st is >50%		
Harb Stratum (Diat size) Eft	20	- 10tal COV	er	3 - Prevalence Ind	lex is $\leq 3.0^1$		
Herb Stratum (Plot Size: <u>5 It.</u>)	65	Voc		4 - Morphological	Adaptations	¹ (Provide	supporting
1. Impatiens capensis	20			- data in Remarks or on	a separate sh	neet)	
2. Amplitar paea bracleala			FAC	Problematic Hydr	ophytic Vege	tation ¹ (E>	(plain)
3. Tussilago tariara	10		FACU	- ¹ Indicators of hydric so	il and wetlan	d hydrolo	gy must be
4. Plea pumia			FACW	present, unless disturb	ed or proble	matic	
5. Myosotis scorpioldes		<u>NO</u>	OBL	Definitions of Vegetation	on Strata:		
6. Chelone glabra	2	NO	OBL	Tree – Woody plants 3	in. (7.6 cm) oi	r more in	diameter at
/				breast height (DBH), re	gardless of h	eight.	
8.				Sapling/shrub - Woody	o 2 28 ft (1 m	han 3 in. l	JBH and
9					(1) 0 0.20 IL (1 III) ldll.	ardlass of
10				size and woody plants	less than 3.2	8 ft tall	gardiess of
11				Woody vines - All wood	ly vines great	ter than 3	28 ft in
12				height.	ay vinces great		.2010111
	112	= Total Cov	er	Hydrophytic Vogotatio	n Drocont2		
<u>Woody Vine Stratum</u> (Plot size: <u>30 ft</u>)						ies _ / _ l'	
1. <u>Vitis riparia</u>	10	Yes	FAC	-			
2				_			
3				_			
4.				-			
	10	= Total Cov	er				
Remarks: (Include photo numbers here or on a separat	e sheet.)						

Sampling Point: W-AJF-09; PFO-1

Profile Desc Depth	ription: (Describe t Matrix	to the o	depth needed to d Redox	docum < Feati	ient the i ures	ndicator	or confirm the at	osence of indicators.)	
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	1	Texture	Remarks
0 - 5	2.5Y 3/1	95	7.5YR 6/6	5	C	M	Rocky S	ilty Clay Loam	
5 - 12	2.5Y 5/2	85	10YR 6/8	15	С	М	Gravelly	Silty Clay Loam	
				·				- <u>, , , , , , , , , , , , , , , , , , ,</u>	
				· —					
				· —					
				· —					
				· —					
				·			-		
				·					
				·			-		
				· —					
				· —					
1 Type: C = C	oncentration D = I	Denlet	ion RM = Reduce	d Mati	ix MS =	Masked	Sand Grains 21 (ocation: PL = Pore Lining	M = Matrix
Hydric Soil I	ndicators:	Depice		amaci	1, 113	masilea		Indicators for Problema	tic Hydric Soils ³
Histosol	(A1)		Polyvalue B	-low S	urface (S	8) (I RR I	R MI RA 149B)		
Histic Ep	ipedon (A2)		Thin Dark S	urface	(S9) (LRF	R. MLR	A 149B)	2 cm Muck (A10) (LR	(A 1 C) (I DD K I D)
Black His	stic (A3)		Loamy Muc	ky Min	eral (F1)	, (LRR K, L	_)	Coast Prairie Redox	(A16) (LKK K, L, K)
Hydroge	n Sulfide (A4)		Loamy Gley	ed Ma	trix (F2)			Dark Surface (S7) (I	Pear (55) (LKK K, L, K)
Stratified	d Layers (A5)		_∕ Depleted M	atrix (I	-3)			Polyvalue Below Sur	face (S8) (I RR K . I)
Depleted	d Below Dark Surfa	ice (A1	1)_✓ Redox Dark	Surfa	ce (F6)			Thin Dark Surface (S	59) (LRR K. L)
Thick Da	rk Surface (A12)		Depleted Da	ark Su	face (F7))		Iron-Manganese Ma	sses (F12) (LRR K, L, R)
Sandy M	ucky Mineral (ST)		Redox Depr	essior	is (F8)			Piedmont Floodplair	n Soils (F19) (MLRA 149B)
Sandy G	leyed Matrix (S4)							Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
Sandy R	edox (S5)							Red Parent Material	(F21)
Stripped	Matrix (S6)		400)					Very Shallow Dark S	urface (TF12)
Dark Sul	Tace (S7) (LRR R, N	ILKA 14	49B)					Other (Explain in Re	marks)
³ Indicators of	of hydrophytic veg	etatior	and wetland hyd	rolog	/ must be	e presen	t, unless disturbe	d or problematic.	
Restrictive L	ayer (if observed):								
	Туре:		None	_		Hydric	Soil Present?	· ·	Yes 🟒 No
	Depth (inches):								
Remarks:									



Project/Site: High River	City/County: Amsterdam, Montgomery County	Sampling Date: 2017-July-19
Applicant/Owner: NextEra	State: New York	Sampling Point: W-AJF-09; UPL-1
Investigator(s): Anthony Froonjian, AJW	Section, Township, Range:	
Landform (hillslope, terrace, etc.): Hillslope	Local relief (concave, convex, none)	: None Slope (%): 10-15
Subregion (LRR or MLRA): LRR L	Lat: 42.8955631 Long	<u>-74.1445384</u> Datum: WGS84
Soil Map Unit Name: Appleton silt loam, 3 to 8 pe	rcent slopes (ApB)	NWI classification:
Are climatic/hydrologic conditions on the site typica	for this time of year? Yes 🖌 No (If r	ıo, explain in Remarks.)
Are Vegetation, Soil, or Hydrology _	significantly disturbed? Are "Normal Circum	stances" present? Yes 🟒 No
Are Vegetation, Soil, or Hydrology _	naturally problematic? (If needed, explain a	ny answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes No 🟒		
Hydric Soil Present?	Yes No 🟒	Is the Sampled Area within a Wetland?	Yes No 🟒
Wetland Hydrology Present?	Yes No 🟒	lf yes, optional Wetland Site ID:	
Remarks: (Explain alternative procedures he	re or in a separate report)	
TRC covertype is UPL.			

Primary Indicators (minimum of one is required; check all that apply) Secondary Indicators (
	<u>idicators (minimum of two required)</u>
	oil Cracks (B6) Patterns (B10) n Lines (B16) on Water Table (C2) Burrows (C8) n Visible on Aerial Imagery (C9)
Field Observations: Surface Water Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:	or Stressed Plants (D1) Shic Position (D2) Aquitard (D3) ographic Relief (D4) tral Test (D5)
Surface Water Present? Yes No _ ✓ Depth (inches): Water Table Present? Yes No _ ✓ Depth (inches): Saturation Present? Yes No _ ✓ Depth (inches): (includes capillary fringe)	
Water Table Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
Saturation Present? Yes No Depth (inches): (includes capillary fringe)	Irology Present? Yes No
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	

Sampling Point: W-AJF-09; UPL-1

1. Carya cordiformis 2. Ostrya virginiana 3. Prunus avium 4. 5. 6. 7. Sapling/Shrub Stratum (Plot size:15 ft) 1. Lonicera morrowii	% Cover 55 15 5	Yes Yes No	FAC FACU FACU	Are OBL, FACW, or FAC		3	(A)
1. Carya corditormis 2. Ostrya virginiana 3. Prunus avium 4. 5. 6. 7. Sapling/Shrub Stratum (Plot size:15 ft) 1. Lonicera morrowii	55 15 5	Yes Yes No	FAC FACU FACU	Total Number of Domin	ant Enocios		
2. Ostrya virginiana 3. Prunus avium 4	5	Yes No	FACU	rotar Hamber of Bonni			
3. Prunus avium 4		NO		Across All Strata:	iane species	6	(B)
4			inco	Percent of Dominant S	oecies That		
<u>Sapling/Shrub Stratum (Plot size:15 ft)</u> <u>Lonicera morrowii</u>				Are OBL, FACW, or FAC		50	(A/B)
6 7 <u>Sapling/Shrub Stratum (Plot size:15 ft</u>) 1. <u>Lonicera morrowii</u>				Prevalence Index work	sheet:		
 <u>Sapling/Shrub Stratum</u> (Plot size: <u>15 ft</u>) <u>Lonicera morrowii</u> 				- <u>Total % Cover</u>	<u>of:</u>	Multiply	<u>By:</u>
<u>Sapling/Shrub Stratum</u> (Plot size: <u>15 ft</u>) 1. <i>Lonicera morrowii</i>				OBL species	0	x 1 =	0
Sapling/Shrub Stratum (Plot size: <u>15 ft</u>) 1. Lonicera morrowii	75	= Total Cov	er	FACW species	0	x 2 =	0
1. Lonicera morrowii				FAC species	80	x 3 =	240
	15	Yes	FACU	FACU species	75	x 4 =	300
2. Frangula alnus	10	Yes	FAC	- UPL species	0	x 5 =	0
3				– Column Totals	155	(A)	540 (B)
4				- Prevalence Ir	dex = B/A =	3.5	
5					Indicators:		
6				1 Papid Test for L	Judrophytic V	agetation	
7					5×10^{11}	egetation	
	25	= Total Cov	er	2 - Dominance re	51.15 - 50.00		
<u>Herb Stratum</u> (Plot size: <u>5 ft.</u>)				5 - Prevalence ind	Adaptations ¹		currenting
1. Prunus virginiana	25	Yes	FACU	4 - Morphological	Audpidiions' a sonarato sh		supporting
2. Toxicodendron radicans	15	Yes	FAC	Problematic Hydr	onhytic Veget	tation ¹ (Ex	nlain)
3. Potentilla simplex	10	No	FACU	Indicators of hydric so	il and wetland	d hydrolo	øv must he
4. Circaea canadensis	5	No	FACU	present, unless disturb	ed or probler	natic	By mast be
5.				Definitions of Vegetation	n Strata:		
6.				Tree – Woody plants 3 i	n. (7.6 cm) or	more in o	diameter at
7.				breast height (DBH), re	gardless of he	eight.	
8.				Sapling/shrub - Woody	plants less th	nan 3 in. D	OBH and
9.				greater than or equal t	o 3.28 ft (1 m)) tall.	
10.				Herb – All herbaceous	(non-woody)	plants, reg	gardless of
11.				size, and woody plants	less than 3.2	8 ft tall.	
12.				Woody vines – All wood	dy vines great	er than 3.	.28 ft in
	55	= Total Cov	er	height.			
Woody Vine Stratum (Plot size: 30 ft)		-		Hydrophytic Vegetatio	n Present? Y	′es N	lo 🟒
1							
2				-			
3				-			
۶				-			
4		- Total Cov	~r	-			
	0	- 10tal COV	ei				
Remarks: (Include photo numbers here or on a separa	ite sheet.)						

Sampling Point: <u>W-AJF-09; UPL-1</u>

(inches)			pur needed to d		ient the li	ndicator or confirm the	absence of indicators.)	
(inches)	Matrix		Redox	Feat	ures		- .	
	Color (moist)	%	Color (moist)	<u>%</u>	Type	Loc ²	lexture	Remarks
0 - 5	10YR 3/4	100				Gr	avelly Silt Loam	
5 - 10	10YR 4/4	100				Grave	lly Silty Clay Loam	
10 - 18	2.5Y 4/4	100						
		. <u> </u>						
						·		
				_				
	-					·		
		·						
·		·				·		
	oncentration D =		n RM = Reduced	Mati	riv MS = I	Masked Sand Grains	² location: Pl = Pore Lining	M = Matrix
lydric Soil I	ndicators:	Depietio		wide	1, 115		Indicators for Problem:	atic Hydric Soils ³
Historol	(Δ1)		Polyvalue Bol		urface (S			
Histic Fr	vou vinedon (A2)		Thin Dark Su	rface	(S9) (I RD		2 cm Muck (A10) (Li	RR K, L, MLRA 149B)
Black Hi	stic (A3)		Loamy Muck	v Min	eral (F1)	(LRR K. L)	Coast Prairie Redox	(A16) (LRR K, L, R)
Hydroge	en Sulfide (A4)		Loamy Gleve	d Ma	trix (F2)		5 cm Mucky Peat or	Peat (S3) (LRR K, L, R)
Stratified	d Layers (A5)		Depleted Ma	trix (l	-3)		Dark Surface (S7) (L	
Depleted	d Below Dark Surfa	ace (A11)	Redox Dark S	Surfa	ce (F6)		Polyvalue Below Su	mace (S8) (LRK K, L)
Thick Da	ark Surface (A12)		Depleted Dar	rk Su	rface (F7)		I nin Dark Surface (
Sandy M	lucky Mineral (S1)		Redox Depre	ssior	ns (F8)		Iron-Manganese Ma	asses (FTZ) (LKK K, L, K)
Sandy G	ileyed Matrix (S4)						Pleamont Floodplai	(MLRA 149B)
Sandy R	edox (S5)						Mesic Spould (TA6) ((WILKA 144A, 145, 149B)
Stripped	d Matrix (S6)						Red Parent Materia	I (FZI) Surfaco (TE12)
Dark Su	rface (S7) (LRR R, N	ILRA 149	9B)					amarks)
	C 1 1 1 1		and wetland hvdr	ology	y must be	e present, unless distur	bed or problematic.	
Indicators o	of hydrophytic veg	etation a						
Indicators (Restrictive L	of hydrophytic veg .ayer (if observed): Type:	etation a	None			Hydric Soil Present?		Ves No /
Indicators (Restrictive L	of hydrophytic veg . ayer (if observed): Type: Donth (inchoc):		None	-		Hydric Soil Present?		Yes No 🟒
Indicators of Restrictive L	of hydrophytic veg . ayer (if observed): Type: Depth (inches):		None	-		Hydric Soil Present?		Yes No/_
emarks:	of hydrophytic veg . ayer (if observed): Type: Depth (inches):		None	-		Hydric Soil Present?		Yes No
Indicators of Restrictive L	of hydrophytic veg . ayer (if observed): Type: Depth (inches):		None	-		Hydric Soil Present?		Yes No
Indicators (lestrictive L	of hydrophytic veg . ayer (if observed): Type: Depth (inches):		None			Hydric Soil Present?		Yes No⁄_
Indicators (lestrictive L lemarks:	of hydrophytic veg . ayer (if observed): Type: Depth (inches):		None	-		Hydric Soil Present?		Yes No
Indicators (estrictive L emarks:	of hydrophytic veg . ayer (if observed): Type: Depth (inches):		None			Hydric Soil Present?		Yes No⁄
ndicators (estrictive L emarks:	of hydrophytic veg . ayer (if observed): Type: Depth (inches):		None	-		Hydric Soil Present?		Yes No⁄_
ndicators (estrictive L emarks:	of hydrophytic veg . ayer (if observed) : Type: Depth (inches):		None	-		Hydric Soil Present?		Yes No
Indicators (lestrictive L	of hydrophytic veg . ayer (if observed) : Type: Depth (inches):		None			Hydric Soil Present?		Yes No
Indicators (Restrictive L	of hydrophytic veg . ayer (if observed): Type: Depth (inches):		None			Hydric Soil Present?		Yes No
lndicators (lestrictive L lemarks:	of hydrophytic veg . ayer (if observed): Type: Depth (inches):		None			Hydric Soil Present?		Yes No
lndicators (lestrictive L lemarks:	of hydrophytic veg . ayer (if observed): Type: Depth (inches):		None	-		Hydric Soil Present?		Yes No
lndicators (lestrictive L lemarks:	of hydrophytic veg . ayer (if observed): Type: Depth (inches):		None			Hydric Soil Present?		Yes No⁄
Indicators (Restrictive L	of hydrophytic veg .ayer (if observed): Type: Depth (inches):		None			Hydric Soil Present?		Yes No⁄
Restrictive L	of hydrophytic veg .ayer (if observed): Type: Depth (inches):		None	-		Hydric Soil Present?		Yes No⁄
Indicators (Restrictive L Remarks:	of hydrophytic veg .ayer (if observed): Type: Depth (inches):		None	-		Hydric Soil Present?		Yes No⁄_
Aestrictive L	of hydrophytic veg . ayer (if observed) : Type: Depth (inches):		None	-		Hydric Soil Present?		Yes No⁄_
Indicators (Restrictive L Remarks:	of hydrophytic veg .ayer (if observed): Type: Depth (inches):		None	-		Hydric Soil Present?		Yes No
Indicators (Restrictive L Remarks:	of hydrophytic veg .ayer (if observed): Type: Depth (inches):		None			Hydric Soil Present?		Yes No
Indicators (Restrictive L Remarks:	of hydrophytic veg .ayer (if observed): Type: Depth (inches):		None			Hydric Soil Present?		Yes No



Project/Site: High River	City/County: Amsterdam	n, Montgomery County	Sampling Date: 20	17-July-20
Applicant/Owner: NextEra		State: New York	Sampling Point: W-A	IF-10; PEM-1
Investigator(s): Anthony Froonjian, A	JW	Section, Township, Range:		
Landform (hillslope, terrace, etc.):	Terrace Local r	relief (concave, convex, none):	None	Slope (%): 0-1
Subregion (LRR or MLRA): LRR L		Lat: 42.8984644 Long:	-74.1458403	Datum: WGS84
Soil Map Unit Name: Madalin silty cla	ay loam, 0 to 3 percent slopes (Ma)		NWI classificatio	n:
Are climatic/hydrologic conditions on th	he site typical for this time of year?	Yes 🟒 No (If n	o, explain in Remarks.)	
Are Vegetation, Soil, or	Hydrology significantly disturbed	d? Are "Normal Circums	tances" present?	Yes 🟒 No
Are Vegetation, Soil, or	Hydrology naturally problematic	? (If needed, explain ar	ny answers in Remarks	.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes No		
Hydric Soil Present?	Yes 🟒 No	Is the Sampled Area within a Wetland?	Yes 🟒 No
Wetland Hydrology Present?	Yes 🟒 No	If yes, optional Wetland Site ID:	W-AJF-10
Remarks: (Explain alternative procedures h	ere or in a separate report	t)	
TRC covertype is PEM.			
51			

e is required; check all that apply)	Secondary Indicators (minimum of two required)		
Water-Stained Leaves (B9) Aquatic Fauna (B13) Marl Deposits (B15) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Roots (C3)	 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) 		
 Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Thin Muck Surface (C7) Other (Explain in Remarks) face (B8) 	 Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1) Geomorphic Position (D2) Shallow Aquitard (D3) Microtopographic Relief (D4) 		
Yes No ✓ Depth (inches): Yes No ✓ Depth (inches):	Wetland Hydrology Present? Yes 🟒 No		
Yes 🖌 No Depth (inches): 9			
uge, monitoring well, aerial photos, previous inspections), if	available:		
	Less required; check all that apply) Water-Stained Leaves (B9) Aquatic Fauna (B13) Marl Deposits (B15) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Roots (C3) Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Thin Muck Surface (C7) gery (B7) Other (Explain in Remarks) face (B8) Yes No Depth (inches): Yes No Depth (inches): Yes No Depth (inches): ger, Mo Depth (inches): Yes No Depth (inches):		

Sampling Point: W-AJF-10; PEM-1

Tree Stratum (Plot size:30 ft)	Absolute	Dominant	Indicator	Dominance Test worksheet:	hat		
1	% COVEI	species:	Status	Are OBL FACW or FAC	liat	3	(A)
1	·			Total Number of Dominant Spe	cies		
2				Across All Strata:		3	(B)
3	·	·		Percent of Dominant Species T	nat 1	00	
т с	·			Are OBL, FACW, or FAC:		00	(A/D)
5				Prevalence Index worksheet:			
7				- <u>Total % Cover of:</u>	<u>Multi</u>	ply By	<u>/:</u>
		= Total Cov		- OBL species 2	x 1 =		2
Sanling/Shruh Stratum (Plot size: 25 ft Transect)		- 10001 000		FACW species 75	x 2 =		150
1 Corpus racemosa	10	Voc	FAC	FAC species 30	x 3 =		90
2		103	TAC	- FACU species 5	x 4 =		20
2	·	<u> </u>		- UPL species 0	x 5 =		0
		·		- Column Totals 112	(A)		262 (B)
4				Prevalence Index = B	A =2.3		
5	·	<u> </u>		- Hydrophytic Vegetation Indicat	ors:		
o	·	·		1- Rapid Test for Hydroph	/tic Vegeta	ion	
7				2 - Dominance Test is >50	6		
	10	= lotal Cov	/er	$_{✓}$ 3 - Prevalence Index is \leq 3	.0 ¹		
Herb Stratum (Plot size: <u>25 ft. Iransect</u>)	45		EA CIA/	4 - Morphological Adaptat	ions ¹ (Prov	de su	pporting
1. Unociea sensibilis	45	Yes	FACW	- data in Remarks or on a separa	te sheet)		
	15	Yes	FAC	Problematic Hydrophytic	/egetation ¹	(Expl	ain)
3. Salix discolor	10	NO	FACW	- ¹ Indicators of hydric soil and w	etland hydr	ology	must be
4. Phragmites australis	10	<u>No</u>	FACW	_ present, unless disturbed or pr	oblematic		
5. <i>Phalaris arundinacea</i>	10	No	FACW	_ Definitions of Vegetation Strata	:		
6. <i>Solidago canadensis</i>	5	No	FACU	Tree – Woody plants 3 in. (7.6 c	n) or more	in dia	ameter at
7. <u>Cornus racemosa</u>	3	No	FAC	breast height (DBH), regardless	of height.		
8. <u>Lythrum salicaria</u>	2	No	OBL	Sapling/shrub – Woody plants l	ess than 3 i	n. DB	H and
9. <u>Vitis riparia</u>	2	No	FAC	greater than or equal to 3.28 ft	(Tm) tall.		
10				Herb – All nerbaceous (non-wo	ody) plants,	rega I	rdiess of
11				Woody vines All woody vines	TO 20 IL LAI	1. n 2 79	? ft in
12	. <u> </u>	. <u> </u>		- height	greater tha	11 5.20	51111
	102	= Total Cov	/er		13 \/	. N	
<u>Woody Vine Stratum</u> (Plot size: <u>30 ft</u>)				Hydrophytic Vegetation Prese	t? Yes	NO	
1				_			
2				_			
3				_			
4	<u> </u>			_			
	0	= Total Cov	/er				
Remarks: (Include photo numbers here or on a separa	te sheet)						
	ie Sneed)						

Sampling Point: W-AJF-10; PEM-1

l			Kedox	reat		1 2		_	
nches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Туре ¹	Loc ²	Textur	e	Remarks
0 - 8	2.5Y 3/1	95	7.5YR 5/4	5	C	<u>M</u>	Silty Clay L	.oam	
8 - 18	2.5Y 4/2	90	10YR 6/6	10	C	M	Silty Cla	ау	
				·					
				·					
				·					
e: C = C	Concentration, D =	Depleti	on, RM = Reduce	d Mat	rix, MS =	Masked Sand G	rains. ² Loc	ation: PL = Po	re Lining, M = Matrix.
ric Soil	Indicators:						l	ndicators for	Problematic Hydric Soils ³ :
listoso	l (A1)		Polyvalue Be	elow S	urface (S	8) (LRR R, MLRA	149B)	2 cm Muck	(A10) (LRR K, L, MLRA 149B)
listic Ep	oipedon (A2)		Thin Dark Su	urface	(S9) (LRR	R, MLRA 149B)		Coast Prai	rie Redox (A16) (LRR K, L, R)
Black Hi	istic (A3)		Loamy Mucl	ky Mir	ieral (F1)	(LRR K, L)		5 cm Muck	xy Peat or Peat (S3) (LRR K, L, R)
Hyaroge	en Sulfide (A4)		Loamy Gleye	ea Ma	trix (FZ)			Dark Surfa	ice (S7) (LRR K, L)
Donloto	d Below Dark Surf:	مرم (1۵	Depieteu Ma 1) ∠ Redox Dark	Surfa	-5) (F6)			Polyvalue	Below Surface (S8) (LRR K, L)
Thick Da	ark Surface (A12)		Depleted Da	ark Su	rface (F7)			Thin Dark	Surface (S9) (LRR K, L)
Sandy N	Aucky Mineral (S1)		Redox Depr	essior	ns (F8)			Iron-Mang	anese Masses (F12) (LRR K, L, R)
					- (-)			Piedmont	Floodolain Soils (F19) (MI RA 149B
Sandy G	Gleved Matrix (S4)								
Sandy G Sandy F	Gleyed Matrix (S4) Redox (S5)		·					Mesic Spo	dic (TA6) (MLRA 144A, 145, 149B)
Sandy G Sandy F Strippe	Gleyed Matrix (S4) Redox (S5) d Matrix (S6)							Mesic Spo Red Paren	dic (TA6) (MLRA 144A, 145, 149B) t Material (F21)
Sandy C Sandy F Stripped Dark Su	Gleyed Matrix (S4) Redox (S5) d Matrix (S6) Irface (S7) (LRR R, M	1LRA 14	49B)				•	Mesic Spor Red Paren Very Shallo	dic (TA6) (MLRA 144A, 145, 149B) t Material (F21) ow Dark Surface (TF12)
Sandy C Sandy F Stripped Dark Su	Gleyed Matrix (S4) Redox (S5) d Matrix (S6) Irface (S7) (LRR R, N	1LRA 14	19B)					Mesic Spo Red Paren Very Shallo Other (Exp	dic (TA6) (MLRA 144A, 145, 149B) t Material (F21) ow Dark Surface (TF12) olain in Remarks)
Sandy C Sandy F Stripped Dark Su licators	Gleyed Matrix (S4) Redox (S5) d Matrix (S6) Irface (S7) (LRR R, M of hydrophytic veg	ILRA 1 4 etation	19B) and wetland hyc	Irolog	y must be	e present, unles	s disturbed	Mesic Spo Red Paren Very Shallo Other (Exp or problemati	dic (TA6) (MLRA 144A, 145, 149B) t Material (F21) ow Dark Surface (TF12) ilain in Remarks) c.
Sandy G Sandy F Stripped Dark Su licators trictive l	Gleyed Matrix (S4) Redox (S5) d Matrix (S6) Irface (S7) (LRR R, N of hydrophytic veg Layer (if observed) :	ILRA 14 etation	19B) and wetland hyc	Irolog	y must be	e present, unles	s disturbed	Mesic Spo Red Paren Very Shallo Other (Exp or problemati	dic (TA6) (MLRA 144A, 145, 149B) t Material (F21) ow Dark Surface (TF12) ilain in Remarks) c.
Sandy G Sandy F Stripped Dark Su icators crictive I	Gleyed Matrix (S4) Redox (S5) d Matrix (S6) Irface (S7) (LRR R, M of hydrophytic veg Layer (if observed): Type:	ILRA 14 etation	19B) and wetland hyc	Irolog	y must be	e present, unles Hydric Soil Pre	s disturbed	Mesic Spo Red Paren Very Shallo Other (Exp or problemati	dic (TA6) (MLRA 144A, 145, 149B) t Material (F21) ow Dark Surface (TF12) olain in Remarks) c. Yes No
Sandy C Sandy F Strippe Dark Su Dark Su icators rictive	Gleyed Matrix (S4) Redox (S5) d Matrix (S6) Irface (S7) (LRR R, M of hydrophytic veg Layer (if observed): Type: Depth (inches):	ILRA 14 etation	19B) and wetland hyc None	Irolog	y must be	e present, unles Hydric Soil Pre	s disturbed	Mesic Spo Red Paren Very Shallo Other (Exp or problemati	dic (TA6) (MLRA 144A, 145, 149B) t Material (F21) ow Dark Surface (TF12) olain in Remarks) c. Yes No
Sandy C Sandy F Stripped Dark Su icators rictive I	Gleyed Matrix (S4) Redox (S5) d Matrix (S6) Irface (S7) (LRR R, M of hydrophytic veg Layer (if observed): Type: 	ILRA 14 etation	49B) and wetland hyc None	Irolog	y must be	e present, unles Hydric Soil Pre	s disturbed	Mesic Spo Red Paren Very Shallo Other (Exp or problemati	dic (TA6) (MLRA 144A, 145, 149B) t Material (F21) ow Dark Surface (TF12) olain in Remarks) c. Yes No
Sandy C Sandy F Stripper Dark Su icators rictive I	Gleyed Matrix (S4) Gleyed Matrix (S4) d Matrix (S6) urface (S7) (LRR R, M of hydrophytic veg Layer (if observed): Type: Depth (inches):	ILRA 14	49B) and wetland hyc None	Irolog	y must be	e present, unles Hydric Soil Pre	s disturbed	Mesic Spo Red Paren Very Shallo Other (Exp or problemati	dic (TA6) (MLRA 144A, 145, 149B) t Material (F21) ow Dark Surface (TF12) olain in Remarks) c. Yes No
Sandy C Sandy F Stripped Dark Su icators rictive I	Gleyed Matrix (S4) Gleyed Matrix (S4) d Matrix (S6) urface (S7) (LRR R, N of hydrophytic veg Layer (if observed): Type: Depth (inches):	ILRA 14 etation	19B) and wetland hyd None	Irolog	y must be	e present, unles Hydric Soil Pre	s disturbed	Mesic Spo Red Paren Very Shallo Other (Exp or problemati	dic (TA6) (MLRA 144A, 145, 149B) t Material (F21) ow Dark Surface (TF12) olain in Remarks) c. Yes No
Gandy C Gandy F Stripped Dark Su icators rictive l	Gleyed Matrix (S4) Gleyed Matrix (S4) d Matrix (S6) Irface (S7) (LRR R, N of hydrophytic veg Layer (if observed): Type: Depth (inches):	ILRA 14 etation	19B) and wetland hyc None	Irolog	y must be	e present, unles Hydric Soil Pre	s disturbed	Mesic Spo Red Paren Very Shallo Other (Exp or problemati	dic (TA6) (MLRA 144A, 145, 149B) t Material (F21) ow Dark Surface (TF12) olain in Remarks) c. Yes No
andy C andy F arripped Dark Su cators rictive I arks:	Gleyed Matrix (S4) Gleyed Matrix (S4) d Matrix (S6) Irface (S7) (LRR R, N of hydrophytic veg Layer (if observed): Type: Depth (inches):	ILRA 14 etation	19B) and wetland hyc None	Irolog	y must be	e present, unles Hydric Soil Pre	s disturbed	Mesic Spo Red Paren Very Shallo Other (Exp or problemati	dic (TA6) (MLRA 144A, 145, 149B) t Material (F21) ow Dark Surface (TF12) olain in Remarks) c. Yes _∠_ No
andy C andy F artipped Dark Su cators rictive I arks:	Gleyed Matrix (S4) Gleyed Matrix (S4) d Matrix (S6) Irface (S7) (LRR R, N of hydrophytic veg Layer (if observed): Type: Depth (inches):	ILRA 14 etation	19B) and wetland hyc None	Irolog	y must be	e present, unles Hydric Soil Pre	s disturbed	Mesic Spo Red Paren Very Shallo Other (Exp or problemati	dic (TA6) (MLRA 144A, 145, 149B) t Material (F21) ow Dark Surface (TF12) olain in Remarks) cNo
andy C Sandy F Stripped Dark Su Cators rictive	Gleyed Matrix (S4) Gleyed Matrix (S4) d Matrix (S6) Irface (S7) (LRR R, N of hydrophytic veg Layer (if observed): Type: Depth (inches):	ILRA 14 etation	19B) and wetland hyc None		y must be	e present, unles Hydric Soil Pre	s disturbed	Mesic Spo Red Paren Very Shallo Other (Exp or problemati	dic (TA6) (MLRA 144A, 145, 149B) t Material (F21) ow Dark Surface (TF12) olain in Remarks) c Yes _∠_ No
Sandy C Sandy F Stripped Dark Su icators trictive I	Gleyed Matrix (S4) Gleyed Matrix (S4) d Matrix (S6) Irface (S7) (LRR R, M of hydrophytic veg Layer (if observed): Type: Depth (inches):	ILRA 14 etation	19B) and wetland hyc None	Irolog	y must be	e present, unles Hydric Soil Pre	s disturbed	Mesic Spo Red Paren Very Shallo Other (Exp or problemati	dic (TA6) (MLRA 144A, 145, 149B) t Material (F21) ow Dark Surface (TF12) olain in Remarks) c. Yes No
Sandy C Sandy F Stripped Dark Su icators rictive	Gleyed Matrix (S4) Gleyed Matrix (S4) d Matrix (S6) Irface (S7) (LRR R, M of hydrophytic veg Layer (if observed): Type: Depth (inches):	ILRA 14 etation	19B) and wetland hyc None	Irolog	y must be	e present, unles Hydric Soil Pre	s disturbed	Mesic Spo Red Paren Very Shallo Other (Exp or problemati	dic (TA6) (MLRA 144A, 145, 149B) t Material (F21) ow Dark Surface (TF12) olain in Remarks) c. Yes No
Sandy C Sandy F Stripped Dark Su icators rrictive I	Gleyed Matrix (S4) Gleyed Matrix (S4) d Matrix (S6) Irface (S7) (LRR R, M of hydrophytic veg Layer (if observed): Type: Depth (inches):	ILRA 14	19B) and wetland hyc None	Irolog	y must be	e present, unles Hydric Soil Pre	s disturbed	Mesic Spo Red Paren Very Shallo Other (Exp or problemati	dic (TA6) (MLRA 144A, 145, 149B) t Material (F21) ow Dark Surface (TF12) olain in Remarks) c. Yes No
Sandy C Sandy F Stripped Dark Su icators rrictive I	Gleyed Matrix (S4) Gleyed Matrix (S4) d Matrix (S6) Irface (S7) (LRR R, M of hydrophytic veg Layer (if observed): Type: Depth (inches):	ILRA 14	19B) and wetland hyc None	Irolog	y must be	e present, unles	s disturbed	Mesic Spo Red Paren Very Shallo Other (Exp or problemati	dic (TA6) (MLRA 144A, 145, 149B) t Material (F21) ow Dark Surface (TF12) olain in Remarks) c. YesNo
Sandy C Sandy F Stripped Dark Su icators rrictive I	Gleyed Matrix (S4) Gleyed Matrix (S4) d Matrix (S6) urface (S7) (LRR R, N of hydrophytic veg Layer (if observed): Type: Depth (inches):	ILRA 14	19B) and wetland hyc None	Irolog	y must be	e present, unles	s disturbed	Mesic Spo Red Paren Very Shallo Other (Exp or problemati	dic (TA6) (MLRA 144A, 145, 149B) t Material (F21) ow Dark Surface (TF12) olain in Remarks) c. Yes No
Sandy C Sandy F Stripped Dark Su icators trictive I	Gleyed Matrix (S4) Gleyed Matrix (S4) d Matrix (S6) Irface (S7) (LRR R, N <u>of hydrophytic veg</u> Layer (if observed): Type: Depth (inches):	ILRA 14	19B) and wetland hyc None	Irolog	y must be	e present, unles	s disturbed	Mesic Spo Red Paren Very Shalld Other (Exp or problemati	dic (TA6) (MLRA 144A, 145, 149B) t Material (F21) ow Dark Surface (TF12) olain in Remarks) c. Yes No
Sandy C Sandy F Stripped Dark Su licators trictive l	Gleyed Matrix (S4) Gleyed Matrix (S4) d Matrix (S6) Irface (S7) (LRR R, N <u>of hydrophytic veg</u> Layer (if observed): Type: Depth (inches):	ILRA 14	19B) and wetland hyc None	lrolog	y must be	e present, unles Hydric Soil Pre	s disturbed	Mesic Spo Red Paren Very Shallo Other (Exp or problemati	dic (TA6) (MLRA 144A, 145, 149B) t Material (F21) ow Dark Surface (TF12) olain in Remarks) c. Yes No
Sandy C Sandy F Stripped Dark Su licators trictive I	Gleyed Matrix (S4) Gleyed Matrix (S4) d Matrix (S6) Irface (S7) (LRR R, N of hydrophytic veg Layer (if observed): Type: Depth (inches):	ILRA 14	19B) and wetland hyc None	Irolog	y must be	e present, unles	s disturbed	Mesic Spo Red Paren Very Shallo Other (Exp or problemati	dic (TA6) (MLRA 144A, 145, 149B) t Material (F21) ow Dark Surface (TF12) olain in Remarks) c. Yes No
Sandy C Sandy F Stripped Dark Su licators trictive	Gleyed Matrix (S4) Gleyed Matrix (S4) d Matrix (S6) Irface (S7) (LRR R, N of hydrophytic veg Layer (if observed): Type: 	ILRA 14	49B) And wetland hyce None	Irolog	y must be	e present, unles	s disturbed	Mesic Spo Red Paren Very Shallo Other (Exp or problemati	dic (TA6) (MLRA 144A, 145, 149B) t Material (F21) ow Dark Surface (TF12) olain in Remarks) c. Yes _∠_ No
Sandy C Sandy F Stripped Dark Su licators trictive I	Gleyed Matrix (S4) Gleyed Matrix (S4) d Matrix (S6) Irface (S7) (LRR R, N of hydrophytic veg Layer (if observed): Type: Depth (inches):	ILRA 14	49B) None	Irolog	y must be	e present, unles	s disturbed	Mesic Spo Red Paren Very Shallo Other (Exp or problemati	dic (TA6) (MLRA 144A, 145, 149B) t Material (F21) ow Dark Surface (TF12) olain in Remarks) c. Yes _∠_ No
Sandy C Sandy F Stripped Dark Su icators trictive I	Gleyed Matrix (S4) Gleyed Matrix (S4) d Matrix (S6) Irface (S7) (LRR R, N of hydrophytic veg Layer (if observed): Type: Depth (inches):	ILRA 14	49B) None	<u>Irolog</u>	y must be	e present, unles	s disturbed	Mesic Spo Red Paren Very Shallo Other (Exp or problemati	dic (TA6) (MLRA 144A, 145, 149B) t Material (F21) ow Dark Surface (TF12) olain in Remarks) c. Yes _∠_ No



Project/Site: High River		City/County	/: Amsterdam,	Montgomery	County	Sampling Date:	2017-July-20
Applicant/Owner: NextE	Fra		State: New York				V-AJF-10; PFO-2
Investigator(s): Anthony	Froonjian, A	JW	S	Section, Towns	hip, Range:		
Landform (hillslope, terrace	e, etc.):	Terrace	Local re	lief (concave, o	convex, none):	None	Slope (%): 0-1
Subregion (LRR or MLRA):	LRR L		L	.at: 42.898210	1 Long:	-74.1461139	Datum: WGS84
Soil Map Unit Name: Ma	adalin silty cla	ay loam, 0 to 3 percent sl	opes (Ma)			NWI classific	ation:
Are climatic/hydrologic con	nditions on th	he site typical for this tim	e of year?	Yes 🖌	_ No (If no	o, explain in Remar	ˈks.)
Are Vegetation, Soil	l, or	Hydrology significa	ntly disturbed?	Are "N	ormal Circums	tances" present?	Yes 🟒 No
Are Vegetation, Soil	l, or	Hydrology naturally	y problematic?	(If need	ded, explain an	y answers in Rema	arks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes 🖌 No		
Hydric Soil Present?	Yes 🟒 No	Is the Sampled Area within a Wetland?	Yes 🟒 No
Wetland Hydrology Present?	Yes 🟒 No	If yes, optional Wetland Site ID:	W-AJF-10
Remarks: (Explain alternative procedur	es here or in a separate rep	port)	
TRC covertype is PFO.			

<u>condary Indicators (minimum of two required)</u> Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16)
condary Indicators (minimum of two required) Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16)
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)
Stunted or Stressed Plants (D1) Geomorphic Position (D2) Shallow Aquitard (D3) Microtopographic Relief (D4) FAC-Neutral Test (D5)
etland Hydrology Present? Yes 🟒 No
lable:
· · · · · · · · · · · · · · · · · · ·

Sampling Point: W-AJF-10; PFO-2

Tree Stratum (Plot size: 30 ft)	Absolute	Dominant	Indicator	Dominance Test works	heet:		
	% Cover	Species?	Status	Number of Dominant	Species That	4	(A)
1. Populus tremuloides	75	Yes	FACU	Are OBL, FACW, or FAC			
2. <i>Carpinus caroliniana</i>	5	No	FAC	Iotal Number of Domi	nant Species	5	(B)
3				Across All Strata:	n a air a That		
4					pecies mac	80	(A/B)
5				Prevalence Index work	sheet.		
6				Total % Cover	of	Multinly	Bv:
7				OBL species	0	x 1 =	<u>.</u> 0
	80	= Total Cov	er	EACW species	40	×2=	80
Sapling/Shrub Stratum (Plot size: <u>15 ft</u>)				FAC species	80	×2- -	240
1. <i>Cornus racemosa</i>	35	Yes	FAC	EACLI species	05	× 4 -	240
2. Rhamnus cathartica	15	Yes	FAC		95	×4- ×5-	002
3. <i>Rosa multiflora</i>	10	No	FACU	Column Totals	215	x 5 -	700 (D)
4. <i>Carya cordiformis</i>	10	No	FAC		215	(A)	700 (B)
5. <i>Lonicera morrowii</i>	5	No	FACU	Prevalence II	ndex = B/A =	<u>3.3</u>	
6.				Hydrophytic Vegetatio	n Indicators:		
7.				1- Rapid Test for	Hydrophytic V	egetatior/	ı
	75	= Total Cov	er	2 - Dominance Te	st is >50%		
Herb Stratum (Plot size: 5 ft.)		_		3 - Prevalence Inc	dex is $\leq 3.0^1$		
1. Onoclea sensibilis	25	Yes	FACW	4 - Morphologica	l Adaptations ¹	(Provide	supporting
2. Impatiens pallida	15	Yes	FACW	data in Remarks or on	a separate sh	ieet)	
3. Cornus racemosa	10	No	FAC	Problematic Hydi	rophytic Vege	tation' (E)	kplain)
4. Circaea canadensis	5	No	FACU	Indicators of hydric so	and wetian	a nyarolo matic	gy must be
5. Amphicarpaea bracteata		No	FAC	Definitions of Vegetati	on Strata:	nauc	
6			1/10	Tree Weedy plants 2	in (7.6 cm) or	, moro in	diameter at
7				hreast height (DBH) re	ardless of h	eight	ulameter at
8				Sanling/shruh - Woody	v nlants less ti	han 3 in T	OBH and
9				greater than or equal t	:o 3.28 ft (1 m) tall.	5 Bir ana
10				Herb – All herbaceous	(non-woodv)	plants, re	gardless of
11				size, and woody plants	less than 3.2	8 ft tall.	0
12				Woody vines - All woo	dy vines great	ter than 3	.28 ft in
12	60	- Total Cav		height.			
WeederVine Christian (District 20 ft)	60	_ 10tal Cov	er	Hvdrophytic Vegetatio	on Present?	íes 🖌 N	No
woody vine stratum (Plot size: <u>30 it</u>)				, , , , , , , , , , , , , , , , , , ,			
1							
2.							
3							
4							
	0	= Total Cov	er				
Remarks: (Include photo numbers here or on a separa	ate sheet.)						

Sampling Point: W-AJF-10; PFO-2

Profile Des	cription: (Describe	to the d	lepth needed to c	locum	nent the i	indicato	r or confirm the at	osence of indicato	ors.)
Depth	Matrix		Redo	x Feat	ures		_		
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Textu	Jre	Remarks
0 - 8	2.5Y 3/1	100					Silty Clay	Loam	
8 - 18	2.5Y 5/2	85	5YR 6/4	15			Silty C	lay	
<u> </u>									
	Concontration D -	Daplati				Mackad	Sand Crains 21	cation: DL - Dara	Lipipg M - Matrix
Type. C = C	Loncentration, D –	Depleti	on, Rivi – Reduced	liviali	f IX, IVIS –	waskeu	Sanu GrainsLu	Judiante de Pore	- Linning, M – Maurix.
Hydric Soil	Indicators:							Indicators for Pr	roblematic Hydric Solls ³ :
Histoso	I (A1)		Polyvalue Be	elow S	urtace (S	8) (LRR	K, MLKA 149B)	2 cm Muck (/	A10) (LRR K, L, MLRA 149B)
HISTIC E	bipedon (A2)			Irtace	(59) (LRR	K K, MLK	A 149B)	Coast Prairie	e Redox (A16) (LRR K, L, R)
Black H	ISUC (A3) op Sulfido (A4)			d Ma	triv (E2)	(LKK K, I	_)	5 cm Mucky	Peat or Peat (S3) (LRR K, L, R)
Hyurug Stratifie	d Lavors (A5)		Loanly Gleye	triv (I	(11X (FZ)			Dark Surface	e (S7) (LRR K, L)
Stratine	d Below Dark Surf	ace (A11	_• Depleted Ma L) Redox Dark	Surfa	-5) ce (F6)			Polyvalue Be	elow Surface (S8) (LRR K, L)
Thick D	ark Surface (A12)		Depleted Da	rk Su	rface (F7)			Thin Dark Su	urface (S9) (LRR K, L)
Sandy N	/uckv Mineral (S1)		Redox Depr	essior	ns (F8)			Iron-Mangar	nese Masses (F12) (LRR K, L, R)
Sandy (Gleved Matrix (S4)				.5 (. 6)			Piedmont Flo	oodplain Soils (F19) (MLRA 149B)
Sandy F	Redax (S5)							Mesic Spodie	c (TA6) (MLRA 144A, 145, 149B)
Strippo	d Matrix (S6)							Red Parent N	Material (F21)
Suippe	u Matrix (50) urfaco (S7) (LPP P L							Very Shallow	v Dark Surface (TF12)
Dark Su	111ace (37) (LKK K, 1	VILKA 14	90)					Other (Expla	in in Remarks)
³ Indicators	of hydrophytic veg	getation	and wetland hyd	rolog	y must be	e preser	it, unless disturbe	d or problematic.	
Restrictive	Layer (if observed)	:							
	Туре:		None			Hydric	Soil Present?	•	Yes 🟒 No
	Depth (inches):			-		-			
Remarks:	<u> </u>	_							



Project/Site: High River		City/County: Amsterdam	, Montgomery	County	Sampling Date:	2017-July-20
Applicant/Owner: NextEra			State:	New York	Sampling Point: <u>W</u>	/-AJF-10; PSS-1
Investigator(s): Anthony Fro	onjian, AJW		Section, Towns	hip, Range:		
Landform (hillslope, terrace, et	t c.): Terrace	Local re	elief (concave, o	convex, none):	Concave	Slope (%): 0-1
Subregion (LRR or MLRA):	LRR L	I	Lat: 42.898028	38 Long:	-74.1460334	Datum: WGS84
Soil Map Unit Name: Madal	in silty clay loam, 0 to	3 percent slopes (Ma)			NWI classifica	ation:
Are climatic/hydrologic conditi	ons on the site typica	l for this time of year?	Yes 🟒	_ No (If no	, explain in Remar	ks.)
Are Vegetation, Soil	_, or Hydrology _	significantly disturbed	? Are "N	ormal Circums	ances" present?	Yes 🟒 No
Are Vegetation, Soil	_, or Hydrology _	naturally problematic?	? (If need	ded, explain an	y answers in Rema	rks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes 🟒 No		
Hydric Soil Present?	Yes 🟒 No	Is the Sampled Area within a Wetland?	Yes 🯒 No _
Wetland Hydrology Present?	Yes 🟒 No	If yes, optional Wetland Site ID:	W-AJF-10
Remarks: (Explain alternative procedure	es here or in a separate rep	ort)	
TRC covertype is PSS.			

Wetland Hydrology Indicators:				
Primary Indicators (minimum of on	e is required; check all	<u>that apply)</u>		Secondary Indicators (minimum of two required)
 Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) 	Water Aquat Marl I Hydro Oxidiz	r-Stained Leaves (B9) cic Fauna (B13) Deposits (B15) ogen Sulfide Odor (C1) zed Rhizospheres on Living R	coots (C3)	 Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imageny (C9)
 Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Ima Sparsely Vegetated Concave Su 	Prese Recen Thin N agery (B7) Other rface (B8)	nce of Reduced Iron (C4) It Iron Reduction in Tilled Soi Auck Surface (C7) (Explain in Remarks)	ls (C6)	 Stunted or Stressed Plants (D1) Geomorphic Position (D2) Shallow Aquitard (D3) Microtopographic Relief (D4) FAC-Neutral Test (D5)
Field Observations:				
Surface Water Present?	Yes No 🟒	Depth (inches):		
Water Table Present?	Yes 🟒 No	Depth (inches):	4	- Wetland Hydrology Present? Yes _∠_ No
Saturation Present?	Yes 🟒 No	Depth (inches):	0	-
(includes capillary fringe)				-
Describe Recorded Data (stream ga	auge, monitoring well, a	aerial photos, previous inspe	ections), if	available:

Sampling Point: <u>W-AJF-10; PSS-1</u>

Tree Stratum (Plot size: <u>30 ft</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test work Number of Dominant	sheet: Species That	5	(A)
1. Fraxinus americana	5	Yes	FACU	Are OBL, FACW, or FAC:			(~)
2.				Total Number of Dom	ninant Species	6	(B)
3				- Percent of Dominant	Spacias That		
4		·		- Are OBL, FACW, or FA	C:	83.3	(A/B)
5.		·		Prevalence Index wor	ksheet:		
6				- <u>Total % Cove</u>	<u>er of:</u>	Multiply	<u>By:</u>
7				- OBL species	13	x 1 =	13
	5	= lotal Cov	er	FACW species	103	x 2 =	206
<u>Sapling/Shrub Stratum</u> (Plot size: <u>15 ft</u>)				FAC species	40	x 3 =	120
1. Cornus racemosa	35	Yes	FAC	- FACU species	10	x 4 =	40
2. Sambucus nigra	10	Yes	FACW	- UPL species	0	x 5 =	0
3. Lonicera morrowii	5	No	FACU	- Column Totals	166	(A)	379 (B)
4				- Prevalence	Index = B/A =	2.3	
5.		<u> </u>		Hydrophytic Vegetati	on Indicators:		
6.				1- Rapid Test for	⁻ Hydrophytic V	egetation	
7				- 2 - Dominance T	est is >50%	0	
	50 = Total Cover			$_\checkmark$ 3 - Prevalence Index is ≤ 3.0 ¹			
<u>Herb Stratum</u> (Plot size: <u>5 ft.</u>)				4 - Morphologic	al Adaptations ¹	(Provide :	supporting
1. Onoclea sensibilis	30	Yes	FACW	- data in Remarks or o	n a separate sh	neet)	11 0
2. <i>Solidago gigantea</i>	25	Yes	FACW	Problematic Hyd	drophytic Vege	tation ¹ (Ex	plain)
3. <i>Phalaris arundinacea</i>	20	Yes	FACW	¹ Indicators of hydric s	oil and wetlan	d hydrolog	gy must be
4. Agrostis stolonifera	15	No	FACW	present, unless distu	rbed or probler	matic	
5. <i>Typha latifolia</i>	10	No	OBL	Definitions of Vegetat	tion Strata:		
6. <i>Euthamia graminifolia</i>	5	No	FAC	Tree – Woody plants	3 in. (7.6 cm) or	r more in o	diameter at
7. Scirpus hattorianus	3	No	OBL	breast height (DBH), i	regardless of h	eight.	
8. Cyperus strigosus	3	No	FACW	Sapling/shrub - Wood	dy plants less tl	han 3 in. D	OBH and
9				greater than or equal	to 3.28 ft (1 m) tall.	
10				Herb – All herbaceou	s (non-woody)	plants, reg	gardless of
11				size, and woody plant	ts less than 3.2	8 ft tall.	
12				Woody vines – All wo	ody vines great	ter than 3.	28 ft in
	111	= Total Cov	er	Height.		(())	-
<u>Woody Vine Stratum</u> (Plot size: <u>30 ft</u>)				Hydrophytic Vegetat	ion Present?	res 🟒 N	0
1				_			
2				_			
3				_			
4							
	0	= Total Cov	er				
Remarks: (Include photo numbers here or on a se	eparate sheet.)						

(inchoc)	Matrix		Redox	x Feat	nent the i Tures	ndicator or confirm t	he absence of indicato	ors.)
(incres)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0 - 6	2.5Y 3/1	100					ilt Loam	
6 - 11	10YR 4/2	90	7.5YR 6/4	10	С	M Silty	Clay Loam	
11 - 18	2.5Y 6/2	85	7.5YR 6/8	15			ilty Clay	
						··		
						··		
						··		
						··		
$v_{\text{res}} = 0$	Concentration, D =	Depletio	on. RM = Reduced	d Mat	rix. MS =	Masked Sand Grains	² l ocation: PL = Pore	Lining M = Matrix
vdric Soil	Indicators:				.,		Indicators for P	roblematic Hydric Soils ³ :
Histoso	l (A1)		Polyvalue Be	elow S	urface (S	8) (LRR R, MLRA 1498) 2 cm Muck (
Histic Ep	pipedon (A2)		Thin Dark Su	irface	(S9) (LRR	R, MLRA 149B)	Coast Prairie	
Black H	istic (A3)		Loamy Muck	y Min	eral (F1)	(LRR K, L)	5 cm Mucky	Peat or Peat (S3) (I RR K R)
Hydroge	en Sulfide (A4)		Loamy Gleye	ed Ma	trix (F2)		Dark Surface	e (S7) (LRR K. L)
Stratifie	d Layers (A5)		_✓ Depleted Ma	atrix (I	-3)		Polyvalue Be	elow Surface (S8) (LRR K, L)
_ Deplete	ed Below Dark Surl	ace (A11) Redox Dark	Surfa	ce (F6)		Thin Dark Su	urface (S9) (LRR K, L)
_ THICK Da Sandy N	ark Surface (ATZ) Auchy Mineral (S1)		Depieted Da	rk Sul	riace (F7)		Iron-Mangai	nese Masses (F12) (LRR K, L, R)
Sandy C	Floved Matrix (S4)			255101	15 (FO)		Piedmont Fl	oodplain Soils (F19) (MLRA 149B)
_ Sandy C	Deday (S5)						Mesic Spodi	c (TA6) (MLRA 144A, 145, 149B)
_ Sanuy r Strinner	d Matrix (S6)						Red Parent l	Material (F21)
	urface (S7) (I RR R	MI RA 14	9B)				Very Shallov	v Dark Surface (TF12)
Dark Su			50)				Other (Expla	in in Remarks)
_ Dark Su					(muct be	e present, unless dist	urbed or problematic.	
_ Dark Su ndicators	of hydrophytic ve	getation	and wetland hyd	rolog	y must be	Í.		
Dark Su ndicators estrictive l	of hydrophytic ve Layer (if observed)	getation):	and wetland hyd	rolog	y must be			
Dark Su ndicators estrictive l	of hydrophytic ve Layer (if observed) Type:	getation):	and wetland hyd None	rolog	y must be	Hydric Soil Present?		Yes No
Dark Su ndicators estrictive l	of hydrophytic ve Layer (if observed Type: Depth (inches):	getation :	and wetland hyd None	rolog	y must be	Hydric Soil Present?		Yes _ 🖌 _ No
Dark Su ndicators estrictive emarks:	of hydrophytic ver Layer (if observed) Type: Depth (inches):	getation :	and wetland hyd None	rolog	y must be	Hydric Soil Present?		Yes _ 🖌 _ No
Dark Su ndicators estrictive l emarks:	of hydrophytic ve Layer (if observed Type: Depth (inches):	getation :	and wetland hyd None	<u>rolog</u>	y must be	Hydric Soil Present?		Yes _ 🖌 No
_ Dark Su ndicators estrictive l emarks:	of hydrophytic ve Layer (if observed Type: Depth (inches):	getation : 	and wetland hyd None	<u>-</u>		Hydric Soil Present?		Yes _
_ Dark Su estrictive l emarks:	of hydrophytic ve; Layer (if observed Type: Depth (inches):	getation :	and wetland hyd None	<u>-</u>	y must be	Hydric Soil Present?		Yes _ 🖌 No
_ Dark Sundicators estrictive emarks:	of hydrophytic ve; Layer (if observed Type: Depth (inches):	getation :	and wetland hyd None	<u>-</u>	y must be	Hydric Soil Present?		Yes _ 🖌 No
_ Dark Su ndicators estrictive emarks:	of hydrophytic ve Layer (if observed Type: Depth (inches):	getation :	and wetland hyd None	<u>-</u>	y must be	Hydric Soil Present?		Yes _ 🖌 No
_ Dark Su ndicators estrictive emarks:	of hydrophytic ve Layer (if observed Type: Depth (inches):	getation :	and wetland hyd None	-	y must be	Hydric Soil Present?		Yes _ 🖌 No
_ Dark Su ndicators estrictive emarks:	of hydrophytic ve Layer (if observed Type: Depth (inches):	getation :	and wetland hyd None	<u>-</u>	y must be	Hydric Soil Present?		Yes No
Dark Su ndicators estrictive emarks:	of hydrophytic ve Layer (if observed Type: Depth (inches):	<u>getation</u>): 	and wetland hyd None	-	y must be	Hydric Soil Present?		Yes _ 🖌 No
Dark Su ndicators estrictive emarks:	of hydrophytic ve Layer (if observed Type: Depth (inches):	<u>getation</u> :	and wetland hyd	<u>-</u>	y must be	Hydric Soil Present?		Yes _ 🖌 No
Dark Su ndicators estrictive emarks:	of hydrophytic ve Layer (if observed Type: Depth (inches):	getation :	and wetland hyd			Hydric Soil Present?		Yes _ 🖌 No
Dark Su ndicators estrictive emarks:	of hydrophytic ve Layer (if observed Type: Depth (inches):	<u>getation</u> :	and wetland hyd	-		Hydric Soil Present?		Yes _ 🖌 No
Dark Su ndicators estrictive emarks:	of hydrophytic ve Layer (if observed Type: Depth (inches):	getation :	and wetland hyd	-		Hydric Soil Present?		Yes _ 🖌 No
Dark Su ndicators estrictive emarks:	of hydrophytic ve Layer (if observed Type: Depth (inches):	getation :	and wetland hyd	- -		Hydric Soil Present?		Yes _ 🖌 No
Dark Su estrictive emarks:	of hydrophytic ve Layer (if observed Type: Depth (inches):	getation :	and wetland hyd	- -		Hydric Soil Present?		Yes _ 🖌 No
Dark Su Indicators Restrictive I	of hydrophytic ve Layer (if observed Type: Depth (inches):	getation :	and wetland hyd	-	y must be	Hydric Soil Present?		Yes _ 🖌 No
Dark Su ndicators estrictive l emarks:	of hydrophytic ve Layer (if observed Type: Depth (inches):	getation :: 	and wetland hyd	-	y must be	Hydric Soil Present?		Yes No
Dark Su ndicators estrictive emarks:	of hydrophytic ve Layer (if observed) Type: Depth (inches):	getation :: 	and wetland hyd	-	y must be	Hydric Soil Present?		Yes No
_ Dark Su ndicators estrictive emarks:	of hydrophytic ve Layer (if observed Type: Depth (inches):	<u>getation</u>	and wetland hyd	-	y must be	Hydric Soil Present?		Yes No


Project/Site: High River	City/County: Amsterdam, Montgomery County	Sampling Date: 20	17-July-20
Applicant/Owner: NextEra	State: New You	rk Sampling Point: W-AJ	IF-10; UPL-1
Investigator(s): Anthony Froonjian, AJW	Section, Township, Ran	ge:	
Landform (hillslope, terrace, etc.): Flat	Local relief (concave, convex, r	none): None	Slope (%): 2-5
Subregion (LRR or MLRA): LRR L	Lat: 42.8981327	Long: -74.1458947	Datum: WGS84
Soil Map Unit Name: Darien silt loam, 3 to 8 perce	nt slopes (DaB)	NWI classificatio	n:
Are climatic/hydrologic conditions on the site typical	for this time of year? Yes 🖌 No	_ (If no, explain in Remarks.)	
Are Vegetation, Soil, or Hydrology	significantly disturbed? Are "Normal Ci	rcumstances" present?	Yes 🟒 No
Are Vegetation, Soil, or Hydrology	naturally problematic? (If needed, exp	lain any answers in Remarks	.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes No 🟒		
Hydric Soil Present?	Yes No 🟒	Is the Sampled Area within a Wetland?	Yes No 🟒
Wetland Hydrology Present?	Yes No	If yes, optional Wetland Site ID:	
Remarks: (Explain alternative procedures her	e or in a separate report)	
TRC covertype is UPL. tilled and mowed			

Wetland Hydrology Indicators:		
Primary Indicators (minimum of on	e is required; check all that apply)	Secondary Indicators (minimum of two required)
Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2)	 Water-Stained Leaves (B9) Aquatic Fauna (B13) Marl Deposits (B15) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Roots (C3) 	 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)
 Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Ima Sparsely Vegetated Concave Sur 	 Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Thin Muck Surface (C7) Other (Explain in Remarks) rface (B8) 	 Stunted or Stressed Plants (D1) Geomorphic Position (D2) Shallow Aquitard (D3) Microtopographic Relief (D4) FAC-Neutral Test (D5)
Field Observations:		
Surface Water Present?	Yes No Depth (inches):	
Water Table Present?	Yes No Depth (inches):	Wetland Hydrology Present? Yes No
Saturation Present?	Yes No Depth (inches):	
(includes capillary fringe)		-
Describe Recorded Data (stream ga	auge, monitoring well, aerial photos, previous inspections), if	available:

Sampling Point: W-AJF-10; UPL-1

Tree Stratum (Plot size: <u>30 ft</u>)	Absolute	Dominant	Indicator	Dominance Test worksho	eet:		
	% Cover	species	Status	Are OBL_EACW_or_EAC	ecles mat	1	(A)
1				- Total Number of Domina	ant Species		
2				Across All Strata:	and species	3	(B)
3.				Percent of Dominant Spe	ecies That		(4.(5))
4.				Are OBL, FACW, or FAC:		33.3	(A/B)
5				 Prevalence Index worksh 	neet:		
o				- <u>Total % Cover o</u>	<u>f:</u>	Multiply I	<u>By:</u>
7		Tabal Ca		– OBL species	0	x 1 =	0
	0	= lotal Cov	/er	FACW species	20	x 2 =	40
<u>Sapling/Shrub Stratum</u> (Plot size: <u>15 ft</u>)				FAC species	0	x 3 =	0
1				– FACU species	20	x 4 =	80
2				– UPL species	30	x 5 =	150
3				– Column Totals	70	(A)	270 (B)
4				Prevalence Ind	lex = B/A =	3.9	
5				Hydrophytic Vegetation	Indicators:		
6				1- Rapid Test for Hy	/drophytic V	egetation	
7				2 - Dominance Test	; is > 50%	0	
	0	= Total Cov	/er	3 - Prevalence Inde	x is $\leq 3.0^1$		
<u>Herb Stratum</u> (Plot size: <u>25 ft. Transect</u>)				4 - Morphological A	daptations ¹	(Provide s	supporting
1. <i>Pastinaca sativa</i>	25	Yes	UPL	– data in Remarks or on a	separate sh	ieet)	
2. Cirsium arvense	20	Yes	FACU	Problematic Hydro	, phytic Vege	tation ¹ (Ex	plain)
3. <i>Phalaris arundinacea</i>	15	Yes	FACW	_ Indicators of hydric soil	and wetlan	d hydrolog	gy must be
4. Securigera varia	5	No	UPL	present, unless disturbe	d or probler	matic	
5. <i>Onoclea sensibilis</i>	5	No	FACW	_ Definitions of Vegetation	n Strata:		
6				_ Tree – Woody plants 3 in	. (7.6 cm) or	r more in c	liameter at
7				breast height (DBH), reg	ardless of h	eight.	
8				Sapling/shrub – Woody p	plants less t	han 3 in. D	BH and
9				greater than or equal to	3.28 ft (1 m) tall.	
10				Herb – All herbaceous (n	ion-woody)	plants, reg	ardless of
11				size, and woody plants le	ess than 3.2	8 ft tall.	20 6 1.
12				woody vines – All woody	/ vines great	ter than 3.	28 TT IN
	70	= Total Cov	/er				
<u>Woody Vine Stratum</u> (Plot size: <u>30 ft</u>)				Hydrophytic Vegetation	Present?	/es N	0 🖌
1				_			
2				_			
3				_			
4.							

Sampling Point: <u>W-AJF-10; UPL-1</u>

Profile Des	cription: (Describe	to the de	epth needed to d	ocum	nent the i	ndicato	or confirm the ab	sence of indicators.)	
Depth	Matrix		Redox	Feat	tures				
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	T	exture	Remarks
0 - 10	10YR 3/3	100					Rocky	/ Silt Loam	
10 - 18	2.5Y 4/3	100					Rocky Si	lty Clay Loam	
		<u> </u>							
<u> </u>							-		
Type: C = C	concentration, D =	Depletio	n, RM = Reduced	Mat	rix, MS =	Masked	Sand Grains. ² Lc	ocation: PL = Pore Lining	g, M = Matrix.
Hydric Soil	Indicators:							Indicators for Problem	natic Hydric Soils ³ :
Histoso	I (A1)		Polyvalue Be	ow S	urtace (S	8) (LRR	R, MLRA 149B)	2 cm Muck (A10) (LRR K, L, MLRA 149B)
Histic Ep	Dipedon (A2)		Thin Dark Su	rtace	(S9) (LRR	R, MLR	A 149B)	Coast Prairie Redo	ox (A16) (LRR K, L, R)
BIACK HI	ISTIC (A3)			/ IVIII d Maa	triv (F2)	(LRR K, I	_)	5 cm Mucky Peat of	or Peat (S3) (LRR K, L, R)
Hyuruge Stratifio	d Lavors (A5)		Loany Gleye	u ivia triv (l	UIX (FZ)			Dark Surface (S7)	(LRR K, L)
Su aune Denlete	d Below Dark Surf.	ace (A11)	Depieted Ma	unx (i Jurfa	-5) ce (E6)			Polyvalue Below S	ourface (S8) (LRR K, L)
Thick D	ark Surface (A12)		Depleted Dark	k Su	rface (F7)			Thin Dark Surface	(S9) (LRR K, L)
Sandy N	lucky Mineral (S1)		Redox Depre	ssior	nace (i 7) ns (F8)			Iron-Manganese N	Masses (F12) (LRR K, L, R)
Sandy (Gleved Matrix (S4)				()			Piedmont Floodpl	ain Soils (F19) (MLRA 149B)
Sandy G	Redox (S5)							Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
Strinner	d Matrix (S6)							Red Parent Materi	ial (F21)
Dark Su	urface (S7) (I RR R N)B)					Very Shallow Dark	Surface (TF12)
Durk 50		nei0(14.	,0)					Other (Explain in F	Remarks)
³ Indicators	of hydrophytic veg	getation a	and wetland hydr	olog	y must be	e preser	t, unless disturbed	d or problematic.	
Restrictive	Layer (if observed)	:							
	Туре:		None	-		Hydric	Soil Present?		Yes No 🟒
	Depth (inches):								
Remarks:									

Photo of Sample Plot



Project/Site: High River	City/County: Amsterdam, M	ontgomery County	Sampling Date: 20	17-July-20
Applicant/Owner: NextEra		State: New York	Sampling Point: W-A	JF-10; UPL-2
Investigator(s): Anthony Froonjian, AJW	Sec	tion, Township, Range:		
Landform (hillslope, terrace, etc.): Toe slope	Local relief	f (concave, convex, none):	Convex	Slope (%): 5-10
Subregion (LRR or MLRA): LRR L	Lat:	42.8981478 Long:	-74.1464408	Datum: WGS84
Soil Map Unit Name: Darien silt loam, 3 to 8 p	ercent slopes (DaB)		NWI classificatio	on:
Are climatic/hydrologic conditions on the site typ	ical for this time of year?	Yes 🟒 No (If n	o, explain in Remarks.)
Are Vegetation, Soil, or Hydrolog	y significantly disturbed?	Are "Normal Circums	tances" present?	Yes 🟒 No
Are Vegetation, Soil, or Hydrolog	y naturally problematic?	(If needed, explain ar	ny answers in Remarks	5.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes No 🟒		
Hydric Soil Present?	Yes No 🟒	Is the Sampled Area within a Wetland?	Yes No 🟒
Wetland Hydrology Present?	Yes No 🟒	lf yes, optional Wetland Site ID:	
Remarks: (Explain alternative procedures he	re or in a separate report)	
TRC covertype is UPL.			

Primary Indicators (minimum of one is required; check all that apply) Secondary Indicators (
	<u>idicators (minimum of two required)</u>
	oil Cracks (B6) Patterns (B10) n Lines (B16) on Water Table (C2) Burrows (C8) n Visible on Aerial Imagery (C9)
Field Observations: Surface Water Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:	or Stressed Plants (D1) Shic Position (D2) Aquitard (D3) ographic Relief (D4) tral Test (D5)
Surface Water Present? Yes No _ ✓ Depth (inches): Water Table Present? Yes No _ ✓ Depth (inches): Saturation Present? Yes No _ ✓ Depth (inches): (includes capillary fringe)	
Water Table Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
Saturation Present? Yes No Depth (inches): (includes capillary fringe)	Irology Present? Yes No
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	

Sampling Point: W-AJF-10; UPL-2

Tree Stratum (Plot cize: 20 ft)	Absolute	Dominant	Indicator	Dominance Test works	heet:		
	% Cover	Species?	Status	Number of Dominant S	Species That	1	(A)
1. Acer saccharum	40	Yes	FACU	Are OBL, FACW, or FAC	•		
2. Populus tremuloides	25	Yes	FACU	Total Number of Domi	nant Species	7	(B)
3. Pinus strobus	15	No	FACU	Across All Strata:			
4. Ostrya virginiana	10	No	FACU	Percent of Dominant S	pecies That	14.3	(A/B)
5. <i>Carpinus caroliniana</i>	5	No	FAC	Are OBL, FACW, or FAC	shaati		
6.				Tetal % Cover	sneet:	Multiply	D. <i>a</i>
7.					<u> </u>		<u> </u>
	95	= Total Cov	er		0	× 1	0
Sapling/Shrub Stratum (Plot size: <u>15 ft</u>)		-		FACW species	10	x 2 =	0
1. Acer saccharum	20	Yes	FACU	FAC species	18	x 3 =	54
2. Rhamnus cathartica	10	Yes	FAC	FACU species	165	×4=	660
3. <i>Fraxinus americana</i>	5	No	FACU		0	x 5 =	0
4. Lonicera morrowii	5	No	FACU		183	(A) _	/14 (B)
5. Carya cordiformis	3	No	FAC	Prevalence li	ndex = B/A =	3.9	
6.		·		Hydrophytic Vegetation	n Indicators:		
7.				1- Rapid Test for I	Hydrophytic V	egetation	
	43	= Total Cov	er	2 - Dominance Te	st is > 50%		
Herb Stratum (Plot size: 5 ft)		-		3 - Prevalence Inc	dex is $\leq 3.0^1$		
1. Acer saccharum	15	Yes	FACU	4 - Morphological	l Adaptations ¹	(Provide s	supporting
2. Circaea canadensis	15	Yes	FACU	data in Remarks or on	a separate sh	eet)	
3. Prunus virginiana	10	Yes	FACU	Problematic Hydr	rophytic Vegei	tation' (Ex	plain)
4. Ouercus rubra	5	No	FACU	Indicators of hydric sc	and wetian	a nyarolog matic	gy must be
5				Definitions of Vegetativ	on Ctrata	Hauc	
6				Tree Weedy plants 2	in (7.6 cm) or	moroin	liamator at
7.		·		breast height (DBH), re	gardless of h	eight.	lameter at
8.				Sapling/shrub - Wood	y plants less tl	nan 3 in. D	BH and
9.				greater than or equal t	o 3.28 ft (1 m) tall.	
10.				Herb – All herbaceous	(non-woody)	plants, reg	ardless of
11.		· ·		size, and woody plants	less than 3.2	8 ft tall.	
12		· ·		Woody vines – All woo	dy vines great	er than 3.	28 ft in
	45	= Total Cov	er	height.			
Woody Vine Stratum (Plot size: 30 ft)		-		Hydrophytic Vegetatic	on Present?	′es N	0 🖌
1							
2							
3							
···		- Total Cov	or				
	0		ei				
Remarks: (Include photo numbers here or on a separat	e sheet.)						

Sampling Point: W-AJF-10; UPL-2

0-1 10YR 3/3 100	inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Те	xture		R	emarks
1-6 10YR 4/4 100	0 - 1	10YR 3/3	100					L	oam			
-12 10YR 5/6 100	1 - 6	10YR 4/4	100					Silt	Loam			
22-16 10YR 6/6 100 Gravelly Silt Loam Gravelly Silt Loam Gravelly Silt Loam Gravely Silt Loam Gravely Silt Loam <	6 - 12	10YR 5/6	100					Silt	Loam			
pe: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. ² Location: PL = Pore Lining, M = Matrix. iric Soil Indicators: Indicators for Problematic Hydric Soils*: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, MLRA 149B) 2 cm Muck (A10) (LRR K, L, MLRA 149B) Black Histic (A3)	12 - 16	10YR 6/6	100					Gravell	v Silt Loam			
De: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. ² Location: PL = Pore Lining, M = Matrix. Indicators: Indicators for Problematic Hydric Soils*: Histosol (A1) Polyvalue Below Surface (S9) (LRR R, MLRA 149B) Histosol (A1) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Loamy Gleyed Matrix (F2) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Stratified Layers (A5) Depleted Dark Surface (F6) Thin Dark Surface (F7) Thin Dark Surface (F6) Thick Sulface (A11) Redox Dark Surface (F7) Sandy Mucky Mineral (S1) Redox Depressions (F8) Sandy Medyx (S5) Depleted Dark Surface (F7) Stripped Matrix (S4) Red Parent Material (F21) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S4) Second Carba (C16) (MLR A 1449B) Stripped Matrix (S6) Other (Explain in Remarks) dicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Trictive Layer (if observed): None Type: None Depth (inches): None Depth (inches): Hydric Soil Present? YesNo Yes			- <u> </u>						,			
pe: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. ²Location: PL = Pore Lining, M = Matrix. tric Soil Indicators: Indicators for Problematic Hydric Soils ² : Histosol (A1) Polyvalue Below Surface (S8) (LRR R, MLRA 149B) Cast Prairie Redox (A10) (LRR K, L, R) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) S com Muck (A10) (LRR K, L, R) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Dark Surface (S3) (LRR R, MLRA 149B) Stratified Layers (A5) Depleted Matrix (F3) Dolyvalue Below Surface (F0) Depleted Below Dark Surface (A11) Redox Dark Surface (F7) Thin Dark Surface (S9) (LRR K, L) Sandy Mucky Mineral (S1) Redox Depressions (F8) Ieron-Manganese Masses (F12) (LRR K, L, R) Sandy Redox (S5)												
pe: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. ² Location: PL = Pore Lining, M = Matrix. tric Soil Indicators: Indicators for Problematic Hydric Soils ³ : Histosol (A1) Polyvalue Below Surface (S8) (LRR R, MLRA 149B) 2 cm Muck (A10) (LRR K, L, MLRA 149B) Black Histic (A3)												
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pe: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. ?Location: PL = Pore Lining, M = Matrix. Indicators: Indicators for Problematic Hydric Soils?: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, MLRA 149B) Histosol (A2) Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Stratified Layers (A5) Depleted Matrix (F3) Depleted Balow Dark Surface (A11) Redox Dark Surface (F6) Thin Dark Surface (A12) Depleted Dark Surface (F7) Sandy Mucky Mineral (S1) Redox Depressions (F8) Sandy Redox (S5)												
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Histic Epipedon (A2) Thin Dark Surface (S9) (LRR R, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Jopeleted Matrix (F2) Depleted Matrix (F3) Depleted Below Dark Surface (A11) Redox Dark Surface (F6) Thin Dark Surface (S7) (LRR K, L) Polyvalue Below Surface (S9) (LRR K, L) Polyvalue Below Surface (S9) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Polyvalue Below Surface (S9) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Polyvalue Below Surface (S9) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Polyvalue Below Surface (S9) (LRR K, L) Polyvalue Below Surface (S9) (LRR K, L, R) Sandy Mucky Mineral (S1) Redox Depressions (F8) Piedmont Floodplain Soils (F19) (MLRA 144B) Nesic Spodic (TA6) (MLRA 144A, 145, 149B) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) dictors of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. trictive Layer (if observed): None Hydric Soil Present? Yes No Yes No Partice None Depth (inches): Depth (inches): Depth (inches): No Yes No Yes No	Histoso	l (A1)		Polyvalue Be	low S	urface (S	8) (LRR R, M	/ILRA 149B)	2 cm Muck (A1	0) (LRR K	L, ML	RA 149B)
Black Histic (A3)	_ Histic E	pipedon (A2)		Thin Dark Su	rface	(S9) (LRR	R, MLRA 1	49B)	Coast Prairie R	edox (A1	6) (LRF	t K, L, R)
Instruction	BIACK H	ISUC (A3) on Sulfido (A1)			d Ma	eral (F1) triv (E2)	(LKK K, L)		5 cm Mucky Pe	at or Pea	t (S3)	(LRR K, L, R)
Depleted Below Dark Surface (A11) Redox Dark Surface (F6) Thick Dark Surface (A12) Depleted Dark Surface (F7) Sandy Mucky Mineral (S1) Redox Depressions (F8) Sandy Gleyed Matrix (S4) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Red Parent Material (F21) Dark Surface (S7) (LRR R, MLRA 149B) Very Shallow Dark Surface (TF12) dicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. trictive Layer (if observed): Type: None Depth (inches): Hydric Soil Present? Yes No	Stratifie	ell Sullide (A4)		Loany Gleye	trix (F				Dark Surface (57) (LRR k	, L)	
Thick Dark Surface (A12)	Deplete	ed Below Dark Surfa	ace (A11)	Redox Dark S	Surfac	ce (F6)			Polyvalue Belo	w Surface	e (S8) (LRR K, L)
Sandy Mucky Mineral (51)Redox Depressions (F8)Piedmont Floodplain Soils (F12) (LRR K, L, R)Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Redox (S5)Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sitipped Matrix (S6)Red Parent Material (F21)Very Shallow Dark Surface (TF12)Other (Explain in Remarks) dicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. trictive Layer (if observed): Type: None Hydric Soil Present? YesNo Depth (inches):	Thick D	ark Surface (A12)		Depleted Dar	'k Sui	face (F7)			Thin Dark Surf	ace (S9) (I	_RR K,	L)
Sandy Gleyed Matrix (S4)	Sandy M	Mucky Mineral (S1)		Redox Depre	ssion	ıs (F8)			Iron-Manganes	de Masse	5 (FIZ)	
Sandy Redox (S5)	Sandy (Gleyed Matrix (S4)							Pleamont Floo	upiain 50 TA6) (MI E	115 (F1: Δ 1//	9) (IVILKA 1490) A 1/15 1/198)
Stripped Matrix (S6)	_ canay (~	~, 143, 1430)
Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) dicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. trictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? YesNo	_ Sandy F	Redox (S5)							Red Parent Ma	terial (F2	1)	
dicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. trictive Layer (if observed): Type:NoneHydric Soil Present? YesNo _✓ Depth (inches):	_ Sandy F _ Strippe	Redox (S5) d Matrix (S6)							Red Parent Ma Verv Shallow D	terial (F2 ark Surfa	1) ce (TF	12)
trictive Layer (if observed): Type:NoneHydric Soil Present? YesNo _∠ Depth (inches): narks:	_ Sandy F _ Sandy F _ Strippe _ Dark Su	Redox (S5) d Matrix (S6) urface (S7) (LRR R, N	/LRA 149	9B)					Red Parent Ma Very Shallow D Other (Explain	terial (F2 oark Surfa in Remar	1) ice (TF iks)	12)
Type: None Depth (inches):	_ Sandy F _ Sandy F _ Strippe _ Dark Su	Redox (S5) d Matrix (S6) urface (S7) (LRR R, N of hydrophytic yeg	ILRA 14 9 retation a	9B) and wetland hydr	ology	v must be	e present. I	unless disturbe	Red Parent Ma Very Shallow D Other (Explain ed or problematic.	terial (F2 oark Surfa in Remar	1) ice (TF iks)	12)
Depth (inches):	_ Sandy I _ Sandy I _ Strippe _ Dark Su dicators	Redox (S5) d Matrix (S6) urface (S7) (LRR R, N <u>of hydrophytic veg</u> Laver (if observed)	ILRA 149 etation a	9 B) and wetland hydr	ology	/ must be	e present, u	ınless disturbe	Red Parent Ma Very Shallow D Other (Explain ed or problematic.	terial (F2 oark Surfa in Remar	1) ice (TF iks)	12)
narks:	_ Sandy I _ Sandy I _ Strippe _ Dark Su dicators strictive	Redox (S5) d Matrix (S6) urface (S7) (LRR R, N of hydrophytic veg Layer (if observed): Type:	ILRA 149 retation a	9 B) and wetland hydr None	ology	/ must be	e present, u	inless disturbe	Red Parent Ma Very Shallow D Other (Explain d or problematic.	terial (F2 oark Surfa in Remar Yes	1) ice (TF ks) No	12)
	_ Sandy I _ Strippe _ Dark Su dicators strictive	Redox (S5) d Matrix (S6) urface (S7) (LRR R, N <u>of hydrophytic veg</u> Layer (if observed): Type: Depth (inches):	ILRA 149 getation a	9 B) and wetland hydr None	ology	/ must be	e present, u Hydric So	inless disturbe il Present?	Red Parent Ma Very Shallow D Other (Explain ed or problematic.	terial (F2 bark Surfa in Remar Yes	1) ice (TF iks) _ No _	12) ✓
	Sandy I Strippe Dark Su dicators strictive	Redox (S5) d Matrix (S6) urface (S7) (LRR R, N of hydrophytic veg Layer (if observed) : Type: Depth (inches):	ILRA 149	9 B) and wetland hydr None	ology	/ must be	e present, u Hydric So	inless disturbe il Present?	Red Parent Ma Very Shallow D Other (Explain ed or problematic.	terial (F2 bark Surfa in Remar Yes	1) ice (TF ks) _ No _	12) ✓
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	Sandy I Strippe Dark Su dicators strictive	Redox (S5) d Matrix (S6) urface (S7) (LRR R, N <u>of hydrophytic veg</u> Layer (if observed) : Type: Depth (inches):	ILRA 149	9B) and wetland hydr None	ology	y must be	e present, u Hydric So	inless disturbe il Present?	Red Parent Ma Very Shallow D Other (Explain ed or problematic.	terial (F2 park Surfa in Remar Yes	1) ice (TF ks) _ No _	12) ✓
	Sandy I Strippe Dark Su dicators strictive	Redox (S5) d Matrix (S6) urface (S7) (LRR R, N <u>of hydrophytic veg</u> Layer (if observed) : Type: Depth (inches):	ILRA 149	9B) and wetland hydr None	ology	/ must be	e present, u Hydric So	inless disturbe	Red Parent Ma Very Shallow D Other (Explain ed or problematic.	terial (F2 park Surfa in Remar Yes	1) ice (TF ks) _ No _	12) ✓
	Sandy I Strippe Dark Su dicators strictive	Redox (S5) d Matrix (S6) urface (S7) (LRR R, N <u>of hydrophytic veg</u> Layer (if observed) : Type: Depth (inches):	ULRA 149	9 B) and wetland hydr None	ology	/ must be	e present, u Hydric So	inless disturbe il Present?	Red Parent Ma Very Shallow D Other (Explain ed or problematic.	terial (F2 park Surfa in Remar Yes	1) ice (TF ks) _ No _	12) ✓
	Sandy I Strippe Dark Su dicators trictive	Redox (S5) d Matrix (S6) urface (S7) (LRR R, N <u>of hydrophytic veg</u> Layer (if observed) : Type: Depth (inches):	ILRA 149	9 B) and wetland hydr None	ology	γ must be	e present, ι Hydric So	inless disturbe	Red Parent Ma Very Shallow D Other (Explain ed or problematic.	terial (F2 park Surfa in Remar Yes	1) ice (TF ks) _ No _	12) ✓
	Sandy I Strippe Dark Su dicators trictive	Redox (S5) d Matrix (S6) urface (S7) (LRR R, N <u>of hydrophytic veg</u> Layer (if observed) : Type: Depth (inches):	ILRA 149	9 B) and wetland hydr None	ology	/ must be	Hydric So	inless disturbe	Red Parent Ma Very Shallow D Other (Explain ed or problematic.	terial (F2 park Surfa in Reman Yes	1) ice (TF ks) _ No _	12) ✓
	Sandy I Strippe Dark Su dicators strictive	Redox (S5) d Matrix (S6) urface (S7) (LRR R, N <u>of hydrophytic veg</u> Layer (if observed) : Type: Depth (inches):	ILRA 149	9 B) and wetland hydr None	olog <u>)</u>	/ must be	Hydric So	inless disturbe	Red Parent Ma Very Shallow D Other (Explain ed or problematic.	terial (F2 bark Surfa in Reman Yes	1) ice (TF ks) _ No _	12) ✓
	Sandy I Strippe Dark Su dicators strictive	Redox (S5) d Matrix (S6) urface (S7) (LRR R, N <u>of hydrophytic veg</u> Layer (if observed): Type: <u>Depth (inches):</u>	ILRA 149	9 B) and wetland hydr None	ology	/ must be	Hydric So	inless disturbe	Red Parent Ma Very Shallow D Other (Explain ed or problematic.	terial (F2 park Surfa in Remar Yes	1) ce (TF ks) No	12) ✓
	Sandy I Strippe Dark Su dicators strictive	Redox (S5) d Matrix (S6) urface (S7) (LRR R, N <u>of hydrophytic veg</u> Layer (if observed): Type: <u>Depth (inches):</u>	ILRA 149	9 B) and wetland hydr None	ology	/ must be	<u>e present, ι</u> Hydric So	inless disturbe	Red Parent Ma Very Shallow D Other (Explain ed or problematic.	terial (F2 park Surfa in Remar Yes	1) cce (TF ks) No	12) ✓
	Sandy I Strippe Dark Su dicators strictive	Redox (S5) d Matrix (S6) urface (S7) (LRR R, N <u>of hydrophytic veg</u> Layer (if observed) : Type: <u>Depth (inches)</u> :	ILRA 149	9 B) and wetland hydr None	<u>olog</u> ,	y must be	e present, u Hydric So	inless disturbe	Red Parent Ma Very Shallow D Other (Explain ed or problematic.	terial (F2 park Surfa in Remar Yes	1) ce (TF ks) _ No _	12) ✓
	Sandy I Strippe Dark Su dicators strictive	Redox (S5) d Matrix (S6) urface (S7) (LRR R, N of hydrophytic veg Layer (if observed) : Type: Depth (inches):	/ILRA 149	9 B) and wetland hydr None	olog <u>)</u>	y must be	e present, ι Hydric So	inless disturbe	Red Parent Ma Very Shallow D Other (Explain ed or problematic.	terial (F2 park Surfa in Remar Yes	1) cce (TF ks) _ No _	12) ✓
	Sandy I Strippe Dark Su dicators strictive	Redox (S5) d Matrix (S6) urface (S7) (LRR R, N of hydrophytic veg Layer (if observed) : Type: Depth (inches):	/ILRA 149	98) and wetland hydr None	<u>.</u>	y must be	e present, ι Hydric So	inless disturbe	Red Parent Ma Very Shallow D Other (Explain ed or problematic.	terial (F2 park Surfa in Remar Yes	1) cce (TF ks) _ No _	12) ∡
	Sandy I Strippe Dark Su dicators strictive	Redox (S5) d Matrix (S6) urface (S7) (LRR R, N of hydrophytic veg Layer (if observed) Type: Depth (inches):	/ILRA 149	98) and wetland hydr None	<u>.</u>	<u>y must be</u>	e present, u Hydric So	inless disturbe	Red Parent Ma Very Shallow D Other (Explain ed or problematic.	terial (F2 park Surfa in Remar Yes	1) cce (TF ks) _ No _	12) ✓
	Sandy I Strippe Dark Su dicators strictive marks:	Redox (S5) d Matrix (S6) urface (S7) (LRR R, N of hydrophytic veg Layer (if observed) : Type: Depth (inches):	ILRA 149	98) and wetland hydr None	<u>olog</u>	y must be	e present, u Hydric So	inless disturbe	Red Parent Ma Very Shallow D Other (Explain ed or problematic.	terial (F2 park Surfa in Remar Yes	1) cce (TF ks) _ No _	12) ✓
	Sandy I Strippe Dark Su dicators strictive	Redox (S5) d Matrix (S6) urface (S7) (LRR R, N <u>of hydrophytic veg</u> Layer (if observed) : Type: Depth (inches):	ILRA 149	98) and wetland hydr None	<u>olog</u>	<u>y must be</u>	e present, u Hydric So	inless disturbe	Red Parent Ma Very Shallow D Other (Explain ed or problematic.	terial (F2 park Surfa in Remar Yes	1) cce (TF ks) _ No _	12)
	Sandy I Strippe Dark Su dicators strictive	Redox (S5) d Matrix (S6) urface (S7) (LRR R, N <u>of hydrophytic veg</u> Layer (if observed) : Type: 	ILRA 149	98) and wetland hydr None	<u>olog</u>	<u>y must be</u>	e present, u Hydric So	inless disturbe	Red Parent Ma Very Shallow D Other (Explain ed or problematic.	terial (F2 park Surfa in Remar Yes	1) ce (TF ks) _ No _	12) ✓

Photo of Sample Plot



Project/Site: High Rive	er		City/County:	Amsterdam,	, Montgome	ry County	/	Sampling Date:	2017-July-20
Applicant/Owner: N	extEra				Stat	e: New Y	′ork	Sampling Point: V	V-AJF-11; PSS-1
Investigator(s): Anth	ony Froonjian	, AJW			Section, Tov	vnship, Ra	inge:		
Landform (hillslope, te	rrace, etc.):	Terrace		Local re	elief (concav	e, convex	, none):	None	Slope (%): 0-1
Subregion (LRR or MLR	RA): LRR	<u> </u>		L	at: 42.899	2267	Long:	-74.1452532	Datum: WGS84
Soil Map Unit Name:	Fluvaquents	, loamy (FL)						NWI classific	ation:
Are climatic/hydrologic	conditions or	n the site typical	for this time	of year?	Yes _	🖌 No	(If no	o, explain in Remar	ʻks.)
Are Vegetation,	Soil,	or Hydrology	significan	tly disturbed?	? Are	"Normal	Circums	tances" present?	Yes 🟒 No
Are Vegetation,	Soil,	or Hydrology	naturally	problematic?	(lf n	eeded, ex	plain an	y answers in Rema	arks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes 🟒 No		
Hydric Soil Present?	Yes 🟒 No	Is the Sampled Area within a Wetland?	Yes 🯒 No
Wetland Hydrology Present?	Yes 🟒 No	If yes, optional Wetland Site ID:	W-AJF-11
Remarks: (Explain alternative procedur	es here or in a separate rep	port)	
TRC covertype is PSS.			

Primary Indicators (minimum of one is required; check all that apply) Surface Water (A1) Water-Stained Leaves (B9) Water Table (A2) Water Table (A2)	Secondary Indicators (minimum of two required)
Surface Water (A1)Water-Stained Leaves (B9)	
	 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)
 Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) 	 Stunted or Stressed Plants (D1) Geomorphic Position (D2) Shallow Aquitard (D3) Microtopographic Relief (D4) FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No 🟒 Depth (inches):	
Water Table Present? Yes No 🖌 Depth (inches):	Wetland Hydrology Present? Yes No
Saturation Present? Yes 🖌 No Depth (inches): 8	
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if a	available:

Sampling Point: W-AJF-11; PSS-1

<u>Tree Stratum</u> (Plot size: <u>30 ft</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test wo Number of Domina	rksheet: nt Species That	3	(A)
2.				Total Number of Do	minant Species	4	(B)
3 4				Percent of Dominar	nt Species That AC:	75	(A/B)
5				Prevalence Index w	orksheet:		
6				- Total % Co	ver of:	Multiply	BV:
7				- OBL species	0	x 1 =	0
	0	= Total Cov	er	FACW species	110	x 2 =	220
<u>Sapling/Shrub Stratum</u> (Plot size: <u>15 ft</u>)				FAC species	15	x 3 =	45
1. <i>Salix discolor</i>	35	Yes	FACW	- FACU species	25	x 4 =	100
2.				- UPL species	0	x 5 =	0
3				- Column Totals	150	(A)	365 (B)
4				- Prevalenc	e Index = B/A =	24	303 (8)
5						2,¬	·
6.				Hydrophytic Vegeta	tion Indicators:		
7.				1- Rapid Test f	or Hydrophytic V	/egetatioi	٦
	35	= Total Cov	er	2 - Dominance	e lest is >50%		
<u>Herb Stratum (Plot size: _5 ft)</u>		-		3 - Prevalence	Index is $\leq 3.0^{\circ}$		
1. Solidago gigantea	40	Yes	FACW	4 - Morpholog	ical Adaptations	' (Provide	supporting
2. Solidago canadensis	25	Yes	FACU		udrophytic Vogo	tation1 (E	volain)
3. <i>Phalaris arundinacea</i>	20	No	FACW	Problematic H	yuropriytic vege	d bydrold	xpiairi)
4. Agrostis stolonifera	15	No	FACW	nresent unless dist	urbed or proble	u nyuroic matic	bgy must be
5. Euthamia graminifolia	10	No	FAC	Definitions of Veget	ation Strata	matic	
6.				Tree - Woody plants	3 in (7.6 cm) or	r more in	diameter at
7				breast height (DBH)	regardless of h	eight.	ulameter at
8				Sapling/shrub – Wo	odv plants less t	han 3 in.	DBH and
9				greater than or equ	al to 3.28 ft (1 m) tall.	
10				Herb – All herbaceo	us (non-woody)	plants, re	gardless of
11		·		size, and woody pla	nts less than 3.2	8 ft tall.	0
12				Woody vines – All w	oody vines great	ter than 3	8.28 ft in
12	110	- Total Cov	or	height.			
Mandu Mine Streeture (Diet sizes 20 ft)		- 10tal Cov	er	Hydrophytic Vegeta	ation Present?	Yes 🖌	No
woody vine stratum (Piot size: <u>30 it</u>)	-		54.6	J. 1 J. 300			
	5	res	FAC	-			
2.		·		-			
3				-			
4				_			
	5	= Total Cov	er				

Depth	cription: (Describe	to the d	epth needed to o	locum	ient the i	ndicator o	or confirm the ab	sence of indicato	ors.)
(inchoc)	Color (moist)	06	Color (moist)			1002	Toxtu	ro	Pomarks
	2 5V 2/1	100		90	туре	<u>LUC-</u>	Silt Lo	200	Remarks
9 16	2.51 3/1	85	7 5VD 5/6	15	<u> </u>		Silty Clay	Loam	
9-10	2.31 4/2	00	7.518 5/0		<u> </u>		Silty Clay	Loan	
				· —					
				·				<u>.</u>	
				· —				<u> </u>	
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				·					
				·	. <u> </u>				
				·				<u>.</u>	
				·					
				·					
¹ Type: C = C	Concentration, D =	Depletio	on, RM = Reduced	d Mati	ix, MS =	Masked S	and Grains. ² Lo	cation: PL = Pore	e Lining, M = Matrix.
Hydric Soil	Indicators:							Indicators for P	roblematic Hydric Soils ³ :
Histosol	(A1)		Polyvalue Be	low S	urface (S	8) (LRR R,	MLRA 149B)	2 cm Muck (A10) (LRR K, L, MLRA 149B)
Histic Ep	bipedon (A2)		Thin Dark Su	irface	(S9) (LRR	R, MLRA	149B)	Coast Prairie	e Redox (A16) (LRR K, L, R)
Black Hi	Stic (A3)		Loamy Muck	y Min	eral (F1)	(LRR K, L)		5 cm Mucky	Peat or Peat (S3) (LRR K, L, R)
Tyuroge	d Lavors (A5)		Loanly Gleye	u Ma triv (I	LIIX (FZ)			Dark Surface	e (S7) (LRR K, L)
Stratine Denlete	d Below Dark Surf	face (A11	Depleted Wa) Redox Dark	Surfac	-5) Te (F6)			Polyvalue Be	elow Surface (S8) (LRR K, L)
Thick Da	ark Surface (A12)		Depleted Da	rk Sui	face (F7)			Thin Dark Su	urface (S9) (LRR K, L)
Sandy N	lucky Mineral (S1)		Redox Depr	essior	is (F8)			Iron-Mangai	nese Masses (F12) (LRR K, L, R)
Sandy G	leved Matrix (S4)				. ,			Piedmont Fl	oodplain Soils (F19) (MLRA 149B)
Sandy R	edox (S5)							Mesic Spodi	c (TA6) (MLRA 144A, 145, 149B)
Stripped	d Matrix (S6)							Red Parent I	Material (F21)
Dark Su	rface (S7) (LRR R, I	MLRA 14	9B)					Very Shallov	v Dark Surface (TFT2)
³ Indicators	of hydrophytic veg	getation	and wetland hyd	rolog	/ must be	e present,	unless disturbed	l or problematic.	
Restrictive I	Layer (if observed)):							
	Туре:		None			Hydric S	oil Present?		Yes 🟒 No
	Depth (inches):								
Domorkey									
Remarks.									
Remarks.									
Remarks.									
Remarks.									
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Photo of Sample Plot



Project/Site: High River	City/County: Amsterdam, Mo	ontgomery County	Sampling Date: 20	17-July-20
Applicant/Owner: NextEra		State: New York	Sampling Point: W-A	JF-11; UPL-1
Investigator(s): Anthony Froonjian, AJW	Sec	tion, Township, Range:		
Landform (hillslope, terrace, etc.): Terrace	Local relief	f (concave, convex, none):	None	Slope (%): 0-1
Subregion (LRR or MLRA): LRR L	Lat:	42.899241 Long	-74.1451748	Datum: WGS84
Soil Map Unit Name: Darien silt loam, 3 to 8 percent	ent slopes (DaB)		NWI classificatio	n:
Are climatic/hydrologic conditions on the site typica	l for this time of year?	Yes 🟒 No (If n	o, explain in Remarks.)	1
Are Vegetation, Soil, or Hydrology _	significantly disturbed?	Are "Normal Circums	stances" present?	Yes 🟒 No
Are Vegetation, Soil, or Hydrology _	naturally problematic?	(If needed, explain a	ny answers in Remarks	.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes No 🟒		
Hydric Soil Present?	Yes No 🟒	Is the Sampled Area within a Wetland?	Yes No 🟒
Wetland Hydrology Present?	Yes No 🟒	lf yes, optional Wetland Site ID:	
Remarks: (Explain alternative procedures he	re or in a separate report)	
TRC covertype is UPL.			

Wetland Hydrology Indicators:				
Primary Indicators (minimum of on	e is required; check all th	<u>at apply)</u>	Secondary Indicators (minimum o	<u>f two required)</u>
Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2)	Water-S Aquatic Marl De Hydroge Oxidized	tained Leaves (B9) Fauna (B13) posits (B15) en Sulfide Odor (C1) d Rhizospheres on Living Roots (C3)	 Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Im 	agery (C9)
Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Ima Sparsely Vegetated Concave Su	Presenc Recent I Thin Mu agery (B7) Other (E rface (B8)	e of Reduced Iron (C4) ron Reduction in Tilled Soils (C6) ick Surface (C7) ixplain in Remarks)	 Stunted or Stressed Plants (D1 Geomorphic Position (D2) Shallow Aquitard (D3) Microtopographic Relief (D4) FAC-Neutral Test (D5))
Field Observations:				
Surface Water Present?	Yes No 🟒	Depth (inches):		
Water Table Present?	Yes No 🟒	Depth (inches):	Wetland Hydrology Present?	Yes No 🟒
Saturation Present?	Yes No 🟒	Depth (inches):		
(includes capillary fringe)			_	
Describe Recorded Data (stream ga	auge, monitoring well, ae	rial photos, previous inspections), if	available:	

Sampling Point: W-AJF-11; UPL-1

<u>Tree Stratum</u> (Plot size: <u>30 ft</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test works	n eet: pecies That	0	(A)
1 2				Total Number of Domir	ant Species	4	(B)
3				 Percent of Dominant Sp Are OBL_EACW_or EAC 	pecies That	0	(A/B)
5				Prevalence Index works	sheet:		
6				– Total % Cover	of:	Multiply	Bv:
7				– OBL species	0	x 1 =	0
	0	= Total Cov	/er	FACW species	5	x 2 =	10
<u>Sapling/Shrub Stratum</u> (Plot size: <u>15 ft</u>)				FAC species	0	x 3 =	0
1				– FACU species	80	x 4 =	320
2				– UPL species	10	x 5 =	50
3				– Column Totals	95	(A)	380 (B)
4.				Prevalence In	dex = B/A =	4	500 (2)
5						<u> </u>	
6				1- Rapid Test for H	i muicators. Ivdrophytic V	agetation	1
7				- 2 - Dominance Tes	t is $> 50\%$	egetation	I
	0	= Total Cov	ver	3 - Prevalence Ind	av is < 3.01		
<u>Herb Stratum</u> (Plot size: <u>25 ft. Transect</u>)				4 - Mornhological	Adaptations ¹	(Provide	supporting
1. <i>Trifolium repens</i>	25	Yes	FACU	- data in Remarks or on a	a separate sh	eet)	Supporting
2. Phleum pratense	20	Yes	FACU	Problematic Hydr	ophytic Vege	tation ¹ (E)	(plain)
3. <i>Cirsium arvense</i>	15	Yes	FACU	Indicators of hydric so	il and wetlan	d hydrolo	gy must be
4. Cichorium intybus	15	Yes	FACU	present, unless disturb	ed or probler	natic	
5. <i>Asclepias syriaca</i>	10	No	UPL	Definitions of Vegetation	n Strata:		
6. <i>Phalaris arundinacea</i>	5	No	FACW	_ Tree – Woody plants 3 i	n. (7.6 cm) or	more in	diameter at
7. Dactylis glomerata	5	No	FACU	breast height (DBH), re	gardless of h	eight.	
8				Sapling/shrub – Woody	plants less t	nan 3 in. I	OBH and
9				greater than or equal to	o 3.28 ft (1 m) tall.	
10.				Herb – All herbaceous (non-woody)	plants, re	gardless of
11				size, and woody plants	less than 3.2	8 ft tall.	
12.				Woody vines – All wood	ly vines great	er than 3	.28 ft in
	95	= Total Cov	ver	neight.			
<u>Woody Vine Stratum</u> (Plot size: <u>30 ft</u>)		-		Hydrophytic Vegetatio	n Present?	′es N	No 🔽
1.							
2.							
3.				=			
4.				-			
		- Total Cov	er	-			

Sampling Point: <u>W-AJF-11; UPL-1</u>

(inches)	IVICUIA		Redox	Feat	ures		absence of indicators	
<u> </u>	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0 - 7	2.5Y 3/2	100				Grave	elly Silt Loam	
7 - 16	2.5Y 4/4	95	7.5YR 6/6	5		Silty	Clay Loam	
, 10	2.31 0 1		7.511(0)0					
·								
						·		
ype: C = C	oncentration, D =	Depletic	on, RM = Reduced	Mati	ix, MS = I	Masked Sand Grains.	² Location: PL = Pore Li	ning, M = Matrix.
/dric Soil I	ndicators:	•					Indicators for Prol	olematic Hydric Soils ³ :
Histosol	(A1)		Polyvalue Be	low S	urface (S	8) (LRR R, MLRA 149B)	2 cm Muck (A1	
– Histic Ep	oipedon (A2)		Thin Dark Su	rface	(S9) (LRR	R, MLRA 149B)	2 CHI MUCK (AT	U) (LRR N, L, MILRA 149B)
Black His	stic (A3)		Loamy Muck	y Min	eral (F1)	(LRR K, L)	E cm Mucky B	edux (ATO) (LKK K, L, K)
_ Hydroge	en Sulfide (A4)		Loamy Gleye	d Ma	trix (F2)		5 cm Mucky Pe	$(\mathbf{J} \mathbf{D} \mathbf{P} \mathbf{K} \mathbf{I})$
_ Stratified	d Layers (A5)		Depleted Ma	trix (I	3)			W Surface (S8) (I PP K 1)
_ Depleted	d Below Dark Surfa	ace (A11) Redox Dark S	Surfa	ce (F6)		Thin Dark Surf	
_ Thick Da	ark Surface (A12)		Depleted Date	rk Su	face (F7)		Iron-Mangane	se Masses (F12) (I RR K. L. R)
_ Sandy M	lucky Mineral (S1)		Redox Depre	ssior	s (F8)		Piedmont Floo	dolain Soils (F19) (MI RA 149R)
_ Sandy G	ileyed Matrix (S4)						Mesic Spodic (TA6) (MI RA 144A, 145, 149B)
_ Sandy R	edox (S5)						Red Parent Ma	aterial (F21)
_ Stripped	l Matrix (S6)						Very Shallow D	Dark Surface (TF12)
_ Dark Su	rface (S7) (LRR R, N	/LRA 14	9B)				Other (Explain	in Remarks)
ndicators	of hvdrophytic veg	etation	and wetland hvdr	olog	/ must be	e present, unless distur	ped or problematic.	
estrictive I	ayer (if observed):							
	, , ,		None			Hvdric Soil Present?		Yes No 🗸
	Type:			-		,		
	Type: Depth (inches):							
marks.	Type: Depth (inches):							
emarks:	Type: Depth (inches):							
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emarks:	Type: Depth (inches):							

Photo of Sample Plot



Project/Site: High Rive	er		City/County:	Florida, Mont	gomery Cou	nty		Sampling Date:	: 2018-	May-22
Applicant/Owner: N	lextEra				State:	New York	S	ampling Point:	W-AJF-1	12; PEM-2
Investigator(s): Don	Lockwood, Ka	ate McGowan		S	ection, Town	ship, Range	e:			
Landform (hillslope, te	rrace, etc.):	Depression		Local rel	ief (concave,	convex, no	ne):	Concave		5lope (%): 1-10
Subregion (LRR or MLF	RA): LRR	L		Lä	at: 42.89950	99 Lo	ong:	-74.1433007	D	atum: WGS84
Soil Map Unit Name:	Fluvaquents	s, loamy						NWI classifi	cation:	PEM
Are climatic/hydrologic	c conditions o	n the site typical	for this time o	of year?	Yes 🟒	_ No ((lf no,	explain in Rema	arks.)	
Are Vegetation,	Soil,	or Hydrology	significantl	y disturbed?	Are "N	Iormal Circu	umsta	ances" present?	Ye	s _ 🖌 No
Are Vegetation,	Soil,	or Hydrology	naturally p	roblematic?	(If nee	ded, explai	in any	answers in Rem	narks.)	

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes 🟒 No		
Hydric Soil Present?	Yes 🟒 No	Is the Sampled Area within a Wetland?	Yes 🟒 No
Wetland Hydrology Present?	Yes 🟒 No	If yes, optional Wetland Site ID:	W-AJF-12
Remarks: (Explain alternative procedure	s here or in a separate rep	port)	
TRC covertype is PEM. Area is wetland, a	all three wetland paramete	ers are present.	

Wetland Hydrology Indicators:				
Primary Indicators (minimum of on	e is required; check all t	hat apply)		Secondary Indicators (minimum of two required)
Surface Water (A1) High Water Table (A2) _ Saturation (A3) Water Marks (B1) Sediment Deposits (B2)	Water- Aquatio Marl Do Hydrog Oxidize	Stained Leaves (B9) Fauna (B13) eposits (B15) en Sulfide Odor (C1) d Rhizospheres on Living Ro	oots (C3)	 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)
 Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Ima Sparsely Vegetated Concave Su 	Presen Recent Thin Ma agery (B7) Other (rface (B8)	ce of Reduced Iron (C4) Iron Reduction in Tilled Soils uck Surface (C7) Explain in Remarks)	s (C6)	 Stunted or Stressed Plants (D1) Geomorphic Position (D2) Shallow Aquitard (D3) Microtopographic Relief (D4) FAC-Neutral Test (D5)
Field Observations:				
Surface Water Present?	Yes No 🟒	Depth (inches):		
Water Table Present?	Yes 🟒 No	Depth (inches):	2	Wetland Hydrology Present? Yes No
Saturation Present?	Yes 🟒 No	Depth (inches):	0	
(includes capillary fringe)		-		
Describe Recorded Data (stream ga	auge, monitoring well, ae	erial photos, previous inspec	tions), if	available:
Remarks:				
A positive indication of wetland hyd	drology was observed (p	rimary and secondary indica	itors wer	e present).

Sampling Point: W-AJF-12; PEM-2

0 10 10 10 10 30 40 30	 	rer FACW FAC UPL rer FACW	Are OBL, FACW, or FAC: Total Number of Dominant Species Across All Strata: Percent of Dominant Species Th Are OBL, FACW, or FAC: Prevalence Index worksheet: OBL species 50 FACW species 80 FAC species 20 FACU species 00 UPL species 10 Column Totals 160 Prevalence Index = B/. Hydrophytic Vegetation Indicator 1- Rapid Test for Hydrophy ✓ 2 - Dominance Test is >509 ✓ 3 - Prevalence Index is ≤ 3 4 - Morphological Adaptati	Multiply x1 = x2 = x3 = x4 = x5 = (A) x = x6 = 01 01 01 01 01 01 02 03 04	(B) (A/B) (A
0 10 10 10 10 30 40 30	 	rer FACW FAC UPL rer FACW	Total Number of Dominant Species Across All Strata: Percent of Dominant Species Th Are OBL, FACW, or FAC: Prevalence Index worksheet: OBL species 50 FACW species 80 FAC species 20 FACU species 00 UPL species 10 Column Totals 160 Prevalence Index = B/. Hydrophytic Vegetation Indicator 1- Rapid Test for Hydrophy ✓ 2 - Dominance Test is >509 ✓ 3 - Prevalence Index is ≤ 3 4 - Morphological Adaptati	$\begin{array}{c} 6 \\ \hline \\ at \\ \hline \\ 83.3 \\ \hline \\ \\ x1 \\ x2 \\ x2 \\ x3 \\ x4 \\ x5 \\ x4 \\ x5 \\ (A) \\ x \\ x5 \\ (A) \\ x \\ x5 \\ (A) \\ x \\ x5 \\ (A) \\ (A) \\ x \\ $	(B) (A/B) (A/B) (By: 50 160 60 0 50 320 (B) 320 (B)
0 10 10 10 10 30 40 30	= Total Cov Yes Yes Yes = Total Cov 	rer FACW FAC UPL rer FACW	 Percent of Dominant Species The Are OBL, FACW, or FAC: Prevalence Index worksheet: Total % Cover of: OBL species 50 FACW species 80 FAC species 20 FACU species 0 UPL species 10 Column Totals 160 Prevalence Index = B/. Hydrophytic Vegetation Indicator 1- Rapid Test for Hydrophy ✓ 2 - Dominance Test is >509 ✓ 3 - Prevalence Index is ≤ 3 4 - Morphological Adaptati 	Multiply x 1 = x 2 = x 3 = x 4 = x 5 = (A) x = x 5 = (A) x = x 0 x 0 x 1 =	(A/B) (By: 50 160 60 0 50 320 (B) 1 supporting
0 10 10 10 30 40 30	= Total Cov Yes Yes Yes = Total Cov 	rer FACW FAC UPL rer FACW	Prevalence Index worksheet: - OBL species 50 FACW species 80 FAC species 20 FACU species 0 UPL species 10 Column Totals 160 Prevalence Index = B/. Hydrophytic Vegetation Indicator 1- Rapid Test for Hydrophy ✓ 2 - Dominance Test is >509 ✓ 3 - Prevalence Index is ≤ 3 4 - Morphological Adaptati	Multiply x 1 = x 2 = x 3 = x 4 = x 5 = (A) x = x : cic Vegetation 01 cons1 (Provide	By: 50 160 60 0 50 320 (B) 320 (C)
0 10 10 10 30 40 30	Total Cov Yes Yes 	rer FACW FAC UPL rer FACW	Total % Cover of: OBL species 50 FACW species 80 FAC species 20 FACU species 0 UPL species 0 Column Totals 160 Prevalence Index = B/. Hydrophytic Vegetation Indicator 1 - Rapid Test for Hydrophy ✓ 2 - Dominance Test is >509 ✓ 3 - Prevalence Index is ≤ 3 4 - Morphological Adaptati	Multiply x 1 = x 2 = x 3 = x 4 = x 5 = (A) x = 2 rs: cic Vegetation x^{0}	By: 50 160 60 50 320 (B) 320 (B)
0 10 10 10 30 40 30	= Total Cov Yes Yes Yes = Total Cov Yes Yes	FACW FAC UPL //er FACW	OBL species 50 FACW species 80 FAC species 20 FACU species 0 UPL species 0 OBL species 0 UPL species 10 Column Totals 160 Prevalence Index = B/ 1 Hydrophytic Vegetation Indicator 1 - 1 - Rapid Test for Hydrophy ✓ 2 - Dominance Test is >50% ✓ 3 - Prevalence Index is ≤ 3 4 - Morphological Adaptati	x 1 = $x 2 =$ $x 3 =$ $x 4 =$ $x 5 =$ (A) $x = 2$ $x =$ $x =$ $x = 2$ x	50 160 60 0 50 320 (B) 1 1 1 1 1 1 1 1 1 1 1 1 1
0 10 10 10 30 40 30	_= Total Cov Yes Yes 	FACW FAC UPL ver FACW	FACW species 80 FAC species 20 FAC species 0 UPL species 10 Column Totals 160 Prevalence Index = B/. Hydrophytic Vegetation Indicate 1 - Rapid Test for Hydrophy 2 - Dominance Test is >50% 3 - Prevalence Index is ≤ 3 4 - Morphological Adaptati	x 2 = $x 3 =$ $x 4 =$ $x 5 =$ (A) $x = 2$ $x =$ $x =$ $x = 2$ x	160 60 50 320 (B)
10 10 10 30 40 30	Yes Yes Total Cov Yes	FACW FAC UPL ///////////////////////////////////	FAC species 20 FACU species 0 UPL species 10 Column Totals 160 Prevalence Index = B/. Hydrophytic Vegetation Indicate 1 - Rapid Test for Hydrophy 2 - Dominance Test is >50% 3 - Prevalence Index is ≤ 3 4 - Morphological Adaptati	x 3 = $x 4 =$ $x 5 =$ (A) $x = 2$ $x =$ $x = 2$	60 0 50 320 (B)
10 10 10 30 40 30	Yes Yes Yes Total Cov	FACW FAC UPL	 FACU species UPL species Column Totals Prevalence Index = B/. Hydrophytic Vegetation Indicate 1- Rapid Test for Hydrophy 2 - Dominance Test is >50% 3 - Prevalence Index is ≤ 3 4 - Morphological Adaptati 	x 4 = x 5 = (A) x = 2 rs: cic Vegetation 01 01 01 01 01 01 01 01 01 01 01 01 01	0 50 320 (B)
10 10 30 40 30	<u>Yes</u> Yes 	FAC UPL	UPL species 10 Column Totals 160 Prevalence Index = B/. Hydrophytic Vegetation Indicator 1 - Rapid Test for Hydrophy ✓ 2 - Dominance Test is >509 ✓ 3 - Prevalence Index is ≤ 3 4 - Morphological Adaptati	x 5 = (A) (A) (A) (A) (A) (A) (A) (A) (A) (A)	50 320 (B)
10 30 40 30	Yes 	ver FACW	Column Totals <u>160</u> Prevalence Index = B/ Hydrophytic Vegetation Indicate 1- Rapid Test for Hydrophy ✓2 - Dominance Test is >509 ✓3 - Prevalence Index is ≤ 3 4 - Morphological Adaptati	(A) (A) (A) (A) (A) (A) (A) (A) (A) (A)	320 (B)
30 40 30	= Total Cov Yes Yes	/er FACW	 Prevalence Index = B/. Hydrophytic Vegetation Indicator 1- Rapid Test for Hydrophy ✓ 2 - Dominance Test is >50% ✓ 3 - Prevalence Index is ≤ 3 4 - Morphological Adaptati 	<pre></pre>	supporting
30 40 30	= Total Cov Yes Yes	ver FACW	 Hydrophytic Vegetation Indicato Hydrophytic Vegetation Indicato 1- Rapid Test for Hydrophy ✓ 2 - Dominance Test is >509 ✓ 3 - Prevalence Index is ≤ 3 4 - Morphological Adaptati 	rs: ic Vegetation 01 ons ¹ (Provide	supporting
30 40 30	= Total Cov	/er FACW	 Hydrophytic Vegetation indicate 1- Rapid Test for Hydrophy ✓ 2 - Dominance Test is >509 ✓ 3 - Prevalence Index is ≤ 3 4 - Morphological Adaptati 	tic Vegetation 01 01 (Provide	n supporting
30 40 30	= Total Cov Yes Yes	ver FACW	 2 - Dominance Test is >50% 3 - Prevalence Index is ≤ 3 4 - Morphological Adaptati 	01 Dns1 (Provide	supporting
30 40 30	= Total Cov Yes Yes	FACW	\checkmark 3 - Prevalence Index is \leq 3 \checkmark 4 - Morphological Adaptati	01 ons1 (Provide	supporting
40 30	Yes Yes	FACW	4 - Morphological Adaptati	ons ¹ (Provide	supporting
40 30	Yes Yes	FACW			supporting
30	Yes		 data in Remarks or on a separat 	- Sheen	
		FACW	– Problematic Hydrophytic V	egetation ¹ (E	xplain)
20	No	OBL	Indicators of hydric soil and we	land hydrold	ogy must be
15	No	OBL	present, unless disturbed or pro	blematic	0)
15	No	OBL	Definitions of Vegetation Strata:		
			Tree – Woody plants 3 in. (7.6 cr	ı) or more in	diameter at
			breast height (DBH), regardless	of height.	
			Sapling/shrub – Woody plants le	ss than 3 in.	DBH and
			greater than or equal to 3.28 ft (1 m) tall.	
			Herb – All herbaceous (non-woo	dy) plants, re	gardless of
			size, and woody plants less than	3.28 ft tall.	
			Woody vines – All woody vines g	reater than 3	8.28 ft in
120	= Total Cov	ver	height.		
	-		Hydrophytic Vegetation Presen	?Yes 🖌 🛛	No
10	Yes	FAC			
			-		
			-		
			-		
10	= Total Cov	ver	-		
sheet.)					
	120 10 10 10 sheet.)	120 = Total Cov 10 Yes 10 = Total Cov 10 = Total Cov sheet.)	120 = Total Cover 10 Yes FAC 10 = Total Cover 10 = Total Cover sheet.) = Total Cover	Image: Constraint of the backbox (non-wood) Size, and woody plants less than Woody vines – All woody vines grade 120 = Total Cover Height. Hydrophytic Vegetation Present 10 Yes FAC 10 = Total Cover 10 = Total Cover sheet.)	Image: Contract of the formation of the for

Profile Des	cription: (Describe Matrix	to the c	lepth needed to o	docun v Eost	nent the i	indicator	or confirm the al	osence of indicators.)
(inches)	Color (moist)	06	Color (moist)	06 N	Type1		Texture	Pemarks
		100			туре	<u>L0C</u> -	Silt Loom	
2 12	101R 3/2	70	10VP 3/6	30			Silt Loam	
5-10	101K 5/1	70	1018 3/0	30	<u> </u>	IVI	Silt LUali	
						<u> </u>		·
¹ Type: $C = C$	Concentration, D =	Depleti	on, RM = Reduce	d Mat	rix, MS =	Masked	Sand Grains. ² Lo	ocation: PL = Pore Lining, M = Matrix.
Hydric Soil	Indicators:	•						Indicators for Problematic Hydric Soils ³ :
Histoso	l (A1)		Polyvalue Be	elow S	urface (S	58) (LRR F	R, MLRA 149B)	
Histic Ep	pipedon (A2)		Thin Dark Su	urface	(S9) (LRF	R R, MLR	A 149B)	2 CHI MUCK (ATO) (LRR N, L, MLRA 149B)
Black Hi	istic (A3)		Loamy Mucl	ky Mir	neral (F1)	(LRR K, L	.)	E cm Mucley Deat or Deat (S2) (LRR K, L, R)
Hydroge	en Sulfide (A4)		Loamy Gleye	ed Ma	trix (F2)			Dark Surface (S7) (I PP K 1)
Stratifie	d Layers (A5)		Depleted Ma	atrix (l	F3)			Polyvalue Below Surface (S8) (I PP K 1)
Deplete	d Below Dark Surf	face (A1	1) Redox Dark	Surfa	ce (F6)			Thin Dark Surface (S0) (I BB K 1)
Thick Da	ark Surface (A12)		Depleted Da	ırk Su	rface (F7))		Iron-Manganese Masses (E12) (I RR K R)
Sandy N	lucky Mineral (S1)		Redox Depr	essior	ns (F8)			Piedmont Eloodnlain Soils (E19) (MI RA 149B)
Sandy C	Gleyed Matrix (S4)							Mesic Spodic (TA6) (MI RA 144A 145 149B)
Sandy F	Redox (S5)							Red Parent Material (F21)
Strippe	d Matrix (S6)							Very Shallow Dark Surface (TE12)
Dark Su	rface (S7) (LRR R, I	MLRA 14	19B)					Other (Explain in Remarks)
3 Indicators	of hydrophytic you	actation	and wotland by	rolog	v must b	o procop	t uplace disturba	d or problematic
Postrictivo	or hydrophytic ve			li olog	y must b	e presen	t, uniess distuibe	
Restrictive).	Nama			متعاملا		Vac (Na
	Type:		None	-		Hydric	Soli Present?	Yes No
	Depth (inches):							
Remarks:								
1								
1								

Hydrology Photos



Vegetation Photos



Soil Photos



Photo of Sample Plot

Project/Site: High Rive	City/County: Amsterdam, Montgomery County				Sampling Date: 2017-July-20				
Applicant/Owner: NextEra			State: New York				Sampling Point: W-AJF-12; PSS-1		
Investigator(s): Anthony Froonjian, AJW Section, Township, Range:									
Landform (hillslope, te	rrace, etc.):	Terrace		Local re	lief (concave	, convex,	none):	Concave	Slope (%): 0-1
Subregion (LRR or MLF	RA): LRR I	-		L	at: 42.8995	177	Long:	-74.1448213	Datum: WGS84
Soil Map Unit Name:	Fluvaquents,	loamy (FL)						NWI classific	ation:
Are climatic/hydrologic	c conditions or	the site typical	for this time	of year?	Yes 🔔	<u>No</u>	(If no	o, explain in Remai	rks.)
Are Vegetation,	Soil,	or Hydrology	significant	ly disturbed?	Y Are "	Normal C	ircums	tances" present?	Yes 🟒 No
Are Vegetation,	Soil,	or Hydrology	naturally p	problematic?	(lf ne	eded, exp	plain an	y answers in Rema	arks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes 🟒 No	ļ	
Hydric Soil Present?	Yes 🟒 No	Is the Sampled Area within a Wetland?	Yes 🯒 No _
Wetland Hydrology Present?	Yes 🟒 No	If yes, optional Wetland Site ID:	W-AJF-12
Remarks: (Explain alternative procedure	es here or in a separate repo	prt)	
TRC covertype is PSS.			

Wetland Hydrology Indicators:						
Primary Indicators (minimum of or	e is required; chec	<u>k all that apply)</u>		Secondary Indicators (minimum of	two required)	
 Surface Water (A1) High Water Table (A2) ✓ Saturation (A3) Water Marks (B1) Sediment Deposits (B2) 	W A M H 0	/ater-Stained Leave: quatic Fauna (B13) larl Deposits (B15) ydrogen Sulfide Od xidized Rhizosphere	s (B9) or (C1) es on Living Roots (C:	 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) 		
 Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Ima Sparsely Vegetated Concave Su 	P R Ti agery (B7) O rface (B8)	resence of Reduced ecent Iron Reductio hin Muck Surface (C ther (Explain in Ren	Iron (C4) n in Tilled Soils (C6) 7) narks)	 Stunted or Stressed Plants (D1) Geomorphic Position (D2) Shallow Aquitard (D3) Microtopographic Relief (D4) FAC-Neutral Test (D5) 		
Field Observations:						
Surface Water Present?	Yes No 🟒	Depth (in	ches):			
Water Table Present?	Yes No 🟒	Depth (inc	ches):	Wetland Hydrology Present?	Yes 🟒 No	
Saturation Present?	Yes 🟒 No	Depth (inc	ches): 6			
(includes capillary fringe)						
Describe Recorded Data (stream g	auge, monitoring w	vell, aerial photos, p	revious inspections),	if available:		

Sampling Point: W-AJF-12; PSS-1

Tree Stratum (Plot size: <u>30 ft</u>)	Absolute	Dominant	Indicator	Dominance Test works	neet:			
1		species:	Status	Are OBL FACW or FAC	pecies mar	4	(A)	
1		·		Total Number of Domir	ant Species			
2.				Across All Strata:		4	(B)	
3. 		·		Percent of Dominant S	pecies That	100	(A/B)	
т				Are OBL, FACW, or FAC			(A/ D)	
6				Prevalence Index works	sheet:			
7				Total % Cover	<u>of:</u>	<u>Multiply</u>	<u>By:</u>	
/·	0	- Total Cov	or	OBL species	30	x 1 =	30	
Sanling/Shruh Stratum (Plot size: 15 ft)	0		CI	FACW species	80	x 2 =	160	
1 Acer negundo	20	Ves	FAC	FAC species	35	x 3 =	105	
2 Cornus alba	10	Ves	FACW	FACU species	0	x 4 =	0	
3 Illmus americana	5		FACW	UPL species	0	x 5 =	0	
A Salix discolor	5	No	FACW	Column Totals	145	(A)	295 (B)	
4. <u>Sanx discolor</u>	5	110	FACIN	Prevalence Ir	idex = B/A =	2		
з. 		<u> </u>		Hydrophytic Vegetation	Indicators:			
7		<u> </u>		1- Rapid Test for H	lydrophytic V	/egetatior	ı	
/·	40	- Total Cov	or	2 - Dominance Te	st is >50%			
Llark Stratum (Blat size) Eft	40		ei	3 - Prevalence Ind	ex is $\leq 3.0^1$			
<u>herb Stratum</u> (Flot Size. <u>_5 It.</u>				4 - Morphological	Adaptations	(Provide	supporting	
 1. Phalaris arundinacea	35	Yes	FACW	data in Remarks or on	a separate sh	ieet)		
2. Typha latifolia	25	Yes	OBI	 Problematic Hydrophytic Vegetation¹ (Explain) 				
3. Epilobium hirsutum	20	No	FACW	 Indicators of hydric soil and wetland hydrology must be 				
4. Calvstegia senium	15	No	FAC	present, unless disturb	ed or problei	matic		
5. <i>Lythrum salicaria</i>	5	No	OBL	Definitions of Vegetatio	on Strata:		-1:	
6. Impatiens pallida	5	No	FACW	broast beight (DBH) ro	n. (7.6 cm) 01 aardloss of b	r more in oight	diameter at	
7				Sanling/shrub Woody	plants loss t	ban 3 in 1		
8				greater than or equal to	n 3 28 ft (1 m) tall	DBITAIlu	
9				Herb – All herbaceous (non-woody)	plants, re	gardless of	
10				size, and woody plants	less than 3.2	8 ft tall.	Bai aress or	
11				Woody vines - All wood	ly vines great	ter than 3	.28 ft in	
12		·		height.	, ,			
12	105	- Total Cov	or	Hydrophytic Vegetatio	n Present?	(es 🖌 N	No	
M(a a du) / in a Stratum (Diatairau 20 ft)	105	- 10101 COV						
<u>woody vine stratum</u> (Piot size: <u>30 it</u>)								
1		·						
2.								
3								
4								
	0	= Iotal Cov	er					
Remarks: (Include photo numbers here or on a separate	sheet.)							

Profile Des Depth	cription: (Describe Matrix	to the d	epth needed to o Redo	locum x Feat	nent the i Tures	ndicator	or confirm the at	osence of indicat	ors.)
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Textu	ıre	Remarks
0 - 4	2.5Y 2.5/1	100					Silt Lo	am	
4 - 8	2.5Y 4/1	95	7.5YR 5/4	5			Silty Clay	/ Loam	
8 - 18	2.5Y 5/2	85	7.5YR 6/6	15		M	Silty (lav	
0.0									
<u> </u>									
<u> </u>					<u> </u>				
<u> </u>					<u> </u>				
	Concontration D -	Doplati	DM - Doduco			Mackad	Sand Crains 21	cation: DL - Dar	a Liping M - Matrix
Type. C = C		Depletic	on, Rivi – Reduce	l iviali	IX, IVIS –	waskeu	Sanu Grains. ² LC	Indicators for D	e Linnig, M – Matrix.
iyaric Soli	Indicators:		Debaselus D		fa a a (C			Indicators for P	roblematic Hydric Solls ³ :
Histic F	ninedon (A2)			rface	(SQ) /I DD	O) (LKK I	(, WILKA 1498) 1498)	2 cm Muck	(A10) (LRR K, L, MLRA 149B)
Black H	istic (A3)			v Min	eral (F1)	(I RR K. I)	Coast Prairi	e Redox (A16) (LRR K, L, R)
Hydrog	en Sulfide (A4)		Loamy Gleve	ed Ma	trix (F2)	(, _	,	5 cm Mucky	/ Peat or Peat (S3) (LRR K, L, R)
Stratifie	ed Layers (A5)		Depleted Ma	atrix (I	-3)			Dark Surfac	e (S7) (LRR K, L)
Deplete	ed Below Dark Surf	face (A11) Redox Dark	Surfa	ce (F6)			Polyvalue B	
Thick D	ark Surface (A12)		Depleted Da	rk Su	rface (F7)			Inin Dark S	
Sandy N	Mucky Mineral (S1)		Redox Depr	essior	ns (F8)				loodplain Soils (F12) (MI RA 1/9R)
Sandy (Gleyed Matrix (S4)							Mesic Spod	ic (TA6) (MI RA 144A, 145, 149B)
Sandy F	Redox (S5)							Red Parent	Material (F21)
Strippe	d Matrix (S6)							Very Shallov	w Dark Surface (TF12)
Dark Su	urface (S7) (LRR R, I	MLRA 14	9B)					Other (Expl	ain in Remarks)
³ Indicators	of hydrophytic ve	getation	and wetland hvd	rolog	v must be	e presen	t. unless disturbe	d or problematic	
Restrictive	Laver (if observed):		0.	,		.,		
	Type:		None			Hvdric	Soil Present?		Yes 🖌 No
	Depth (inches):			-					· · · · <u>·</u> · · · · <u>· · · · · · · · · ·</u>
Remarks [.]									
Cernarks.									

Photo of Sample Plot



Project/Site: High River	City/County: Amsterdam, M	ontgomery County	Sampling Date: 2017-July-20						
Applicant/Owner: NextEra		State: New York	Sampling Point: W-AJF-12; UPL-1						
Investigator(s): Anthony Froonjian, AJW Section, Township, Range:									
Landform (hillslope, terrace, etc.): Terrace	Local relie	f (concave, convex, none):	None	Slope (%): 0-1					
Subregion (LRR or MLRA): LRR L	Lat:	42.8995427 Long:	-74.1448381	Datum: WGS84					
Soil Map Unit Name: Darien silt loam, 3 to 8 percent	ent slopes (DaB)		NWI classificatio	n:					
Are climatic/hydrologic conditions on the site typica	I for this time of year?	Yes 🟒 No (If n	o, explain in Remarks.)						
Are Vegetation, Soil, or Hydrology _	significantly disturbed?	Are "Normal Circums	tances" present?	Yes 🟒 No					
Are Vegetation, Soil, or Hydrology _	naturally problematic?	(If needed, explain ar	ny answers in Remarks	.)					

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes No 🟒										
Hydric Soil Present?	Yes No 🟒	Is the Sampled Area within a Wetland?	Yes No 🟒								
Wetland Hydrology Present?	Yes No 🟒	lf yes, optional Wetland Site ID:									
Remarks: (Explain alternative procedures here or in a separate report)											
TRC covertype is UPL.											

Wetland Hydrology Indicators:					
Primary Indicators (minimum of on	e is required; check all that apply)	Secondary Indicators (minimum of two required)			
Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2)	 Water-Stained Leaves (B9) Aquatic Fauna (B13) Marl Deposits (B15) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Roots (C3) 	 Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imageny (C9) 			
Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Ima Sparsely Vegetated Concave Sur	 Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Thin Muck Surface (C7) Other (Explain in Remarks) face (B8) 	 Stunted or Stressed Plants (D1) Geomorphic Position (D2) Shallow Aquitard (D3) Microtopographic Relief (D4) FAC-Neutral Test (D5) 			
Field Observations:					
Surface Water Present?	Yes No Depth (inches):				
Water Table Present?	Yes No _	Wetland Hydrology Present? Yes No			
Saturation Present?	Yes No Depth (inches):				
(includes capillary fringe)					
Describe Recorded Data (stream ga	uge, monitoring well, aerial photos, previous inspections), if	available:			

Sampling Point: W-AJF-12; UPL-1

<u>Tree Stratum</u> (Plot size: <u>30 ft</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test work	sheet: Species That	0	(A)
1				Are OBL, FACW, or FA	L: In out Coursian		
2				- Across All Strata	inant Species	2	(B)
3				Percent of Dominant	Species That		
4				- Are OBL, FACW, or FA	C:	0	(A/B)
5				- Prevalence Index wor	ksheet:		
6				- <u>Total % Cove</u>	<u>r of:</u>	<u>Multiply</u>	<u>' By:</u>
7				– OBL species	0	x 1 =	0
	0	= lotal Cov	rer	FACW species	0	x 2 =	0
Sapling/Shrub Stratum (Plot size: <u>15 ft</u>)				FAC species	0	x 3 =	0
1				 FACU species 	80	x 4 =	320
2				 UPL species 	40	x 5 =	200
3.				– Column Totals	120	(A)	520 (B)
4.				- Prevalence	Index = B/A =	4.3	
5				- Hydrophytic Vegetatio	on Indicators:		·
6				- 1- Rapid Test for	Hydrophytic V	/egetatio	n
7				2 - Dominance T	est is > 50%	0	
	0	= Total Cov	er	3 - Prevalence In	dex is $\leq 3.0^1$		
<u>Herb Stratum</u> (Plot size: <u>5 ft.</u>				4 - Morphologica	al Adaptations	¹ (Provide	supporting
	40		FACU	data in Remarks or or	n a separate sh	neet)	
1. Trifolium pratense	40	Yes	FACU	– Problematic Hyc	lrophytic Vege	tation ¹ (E	xplain)
2. Bromus inermis	25	Yes	UPL	- Indicators of hydric soil and wetland hydrology must b			
3. Cichorium intybus	20	No	FACU	_ present, unless distur	bed or proble	matic	
4. Pastinaca sativa	15	No	UPL	 Definitions of Vegetat 	ion Strata:		
5. <i>Phleum pratense</i>	10	No	FACU	_ Tree – Woody plants 3	3 in. (7.6 cm) oi	r more in	diameter at
6. <i>Erigeron annuus</i>	10	No	FACU	_ breast height (DBH), r	egardless of h	eight.	
7				Sapling/shrub – Wood	ly plants less t	han 3 in.	DBH and
8				greater than or equal	to 3.28 ft (1 m) tall.	
9				Herb – All herbaceous	s (non-woody)	plants, re	gardless of
10				size, and woody plant	s less than 3.2	8 ft tall.	20 6
11				- height	buy vines great	ter man a	o.∠ŏ IL IN
12							
	120	= Total Cov	rer	Hydrophytic Vegetati	on Present?	res	No 🟒
<u>Woody Vine Stratum</u> (Plot size: <u>30 ft</u>)							
1				_			
2				_			
3				_			
4				_			
	0	= Total Cov	or	-			

Sampling Point: W-AJF-12; UPL-1

(inches)	Matrix	to the de	Podo	Curr East	ient the i	ndicator or confirm the	absence of indicators.)	
(inches)	Matrix	0/	Color (moint)		ures Tures	1.0.02	Terretrine	Demente
0 0	Color (moist)	<u> </u>	Color (moist)		Туреч	LOC ²		Remarks
0-6	2.5Y 3/2	100					Silt Loam	
6 - 10	2.5Y 3/2	100				Gr	avelly Silt Loam	
10 - 18	2.5Y 4/4	100				Grave	lly Silty Clay Loam	
Гуре: С = С	Concentration, D =	Depletio	n, RM = Reduced	Matr	rix, MS = I	Masked Sand Grains.	² Location: PL = Pore Lining,	M = Matrix.
ydric Soil	Indicators:						Indicators for Problema	atic Hydric Soils ³ :
Histosol	(A1)		Polyvalue Be	low S	urface (S	8) (LRR R, MLRA 149B)	2 cm Muck (A10) (Li	RR K, L, MLRA 149B)
Histic Ep	oipedon (A2)		Thin Dark Su	rface	(S9) (LRR	R, MLRA 149B)	Coast Prairie Redox	(A16) (LRR K, L, R)
Black Hi	SUC (A3) an Sulfide (A4)		Loamy Muck	y iviin d Ma	erai (F1) (triv (E2)	LKK K, L)	5 cm Mucky Peat or	Peat (S3) (LRR K, L, R)
Stratifie	d Lavers (A5)		Depleted Ma	trix (F			Dark Surface (S7) (L	RR K, L)
Deplete	d Below Dark Surfa	ace (A11)	Redox Dark S	Surfac	ce (F6)		Polyvalue Below Su	rface (S8) (LRR K, L)
Thick Da	ark Surface (A12)		Depleted Dar	k Su	face (F7)		Thin Dark Surface (59) (LRR K, L)
Sandy M	1ucky Mineral (S1)		Redox Depre	ssior	ns (F8)		Iron-Manganese Ma	asses (F12) (LRR K, L, R)
Sandy G	ileyed Matrix (S4)						Piedmont Floodplai	n Soils (F19) (MLRA 149B)
Sandy R	edox (S5)						Mesic Spoalc (TA6) (MLKA 144A, 145, 149B)
	d Matrix (S6)						Vory Shallow Dark S	(FZT) Surface (TE12)
Dark Su	rface (S7) (LRR R, N	/LRA 149	9B)				Other (Explain in Re	emarks)
Indicators	of bydrophytic yog	atation -	and wetland bydr	مامھ	/ must be	procent unless distur	and or problematic	···· ··· ,
Restrictive I	aver (if observed)		and wettand hydr	ology	/ must be			
	Type:		None			Hydric Soil Present?		Yes No /
	Denth (inches)			-				
	Deptir (menes).							
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Project/Site: High Rive	City/County: Florida,	mery Coun		Sampling Date: 2018-May-22						
Applicant/Owner: N	State: New York				Sampling Point: W-AJF-12; UPL-2					
Investigator(s): Don Lockwood, Kate McGowan Section, Township, Range:										
Landform (hillslope, te	rrace, etc.):	Hillslope	Loc	cal relief	(concave, c	convex, no	ne):	Convex	Slope	(%): 1-10
Subregion (LRR or MLR	RA): LRR	L		Lat:	42.899569	95 Lo	ong:	-74.1432765	Datum	: WGS84
Soil Map Unit Name:	Fluvaquents	, loamy						NWI classific	ation: Non-	Wetland
Are climatic/hydrologic	c conditions o	n the site typical	for this time of year?		Yes 🖌	_ No ((lf no	, explain in Rema	rks.)	
Are Vegetation,	Soil,	or Hydrology	significantly distur	bed?	Are "No	ormal Circu	umst	ances" present?	Yes 🟒	No
Are Vegetation,	Soil,	or Hydrology	naturally problem	atic?	(If need	ded, explai	n ang	y answers in Rem	arks.)	

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes No		
Hydric Soil Present?	Yes No 🟒	Is the Sampled Area within a Wetland?	Yes No 🟒
Wetland Hydrology Present?	Yes No	lf yes, optional Wetland Site ID:	
Remarks: (Explain alternative procedures her	e or in a separate report)	
TRC covertype is UPL. Area is upland, not all t	hree wetland parameter	s are present.	

Wetland Hydrology Indicators:		
Primary Indicators (minimum of one	e is required: check all that apply)	Secondary Indicators (minimum of two required)
Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2)	Water-Stained Leaves (B9) Aquatic Fauna (B13) Marl Deposits (B15) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living	Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) ; Roots (C3) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Ima Sparsely Vegetated Concave Sur	Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled S Thin Muck Surface (C7) Other (Explain in Remarks) face (B8)	 Stunted or Stressed Plants (D1) Geomorphic Position (D2) Shallow Aquitard (D3) Microtopographic Relief (D4) FAC-Neutral Test (D5)
Field Observations:		
Surface Water Present?	Yes No Depth (inches):	
Water Table Present?	Yes No 🟒 Depth (inches):	Wetland Hydrology Present? Yes No
Saturation Present?	Yes No Depth (inches):	
(includes capillary fringe)		
Describe Recorded Data (stream ga	uge, monitoring well, aerial photos, previous ins	pections), if available:
Remarks:		
No positive indication of wetland hy	drology was observed.	

Sampling Point: W-AJF-12; UPL-2

<u>Tree Stratum</u> (Plot size: <u>30 ft</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test work	sheet: Species That	0	(A)
1				Total Number of Dom	c: inant Species	1	(B)
3				Percent of Dominant !	Species That	0	(A/B)
5				Prevalence Index work	ksheet:		
6				– Total % Cove	r of:	Multiply	Bv:
7				– OBL species	0	x 1 =	 0
	0	= Total Cov	rer	FACW species	0	x 2 =	0
Sapling/Shrub Stratum (Plot size: <u>15 ft</u>)				FAC species	15	x 3 =	45
1				– FACU species	120	× 4 =	480
2					0	×	
3.				Column Totals	125	× J = _	525 (D)
4.				- Column Totals		(A)	525 (B)
5.				- Prevalence	ndex = B/A =	3.9	
6.				 Hydrophytic Vegetatic 	on Indicators:		
7.				1- Rapid Test for	Hydrophytic V	egetatior/	ı
	0	= Total Cov	er	–2 - Dominance T	est is > 50%		
Herb Stratum (Plot size: 5 ft)		_		3 - Prevalence In	dex is $\leq 3.0^1$		
1. Dactylis glomerata	90	Yes	FACU	4 - Morphologica	al Adaptations ¹	(Provide	supporting
2. Taraxacum officinale	15	No	FACU	- data in Remarks or or	a separate sh	ieet)	
3 Trifolium pratense		No	FACU	Problematic Hyd	Irophytic Vege	tation ¹ (E)	kplain)
A Fauisetum arvense		No	FAC	 Indicators of hydric s 	oil and wetlan	d hydrolo	gy must be
5			1/10	_ present, unless distur		nauc	
6				_ Definitions of vegetat	ion Strata:		
7				_ Iree - woody plants 3	orn. (7.6 cm) or	nore in	diameter at
·				- Sanling/shrub Wood	egal uless of fi	eigilt. han 2 in 1	DPL and
o				greater than or equal	to 3 28 ft (1 m) tall	Jon anu
9		<u> </u>		Herb - All herbaceous	(non-woody)	nlants re	gardless of
10				size, and woody plant	s less than 3.2	8 ft tall.	garaicss of
11				- Woody vines - All woo	dv vines great	ter than 3	.28 ft in
12				height.			
	135	= Total Cov	er	Hydronbytic Vegetati	on Present?		
<u>Woody Vine Stratum</u> (Plot size: <u>30 ft</u>)					on Fresent:	ies i	NU <u>v</u>
1.				_			
2				_			
3				_			
4				_			
	0	= Total Cov	er				

Depth	Matrix		Redo	x Feat	ures		commit the a	ibsence of Indicat	
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture		Remarks
0-9	10YR 3/2	100					Silt Loam		
9 - 18	10YR 3/1	90	10YR 3/6	10	с		Silt Loam	<u> </u>	
								<u> </u>	
						<u> </u>			
						<u> </u>			
						<u> </u>			
ype: C = C	Concentration, D =	Depleti	on, RM = Reduced	d Mati	rix, MS =	Masked Sa	nd Grains. ² L	ocation: PL = Por	re Lining, M = Matrix.
yaric Soli	Indicators:		Debaselus De			0) (I DD D		Indicators for F	roblematic Hydric Solis ³ :
HISTOSO	I (AT)		Polyvalue Be	elow S	urtace (S		VILKA 149B) 70B)	2 cm Muck	(A10) (LRR K, L, MLRA 149B)
_ HISUC EP	istic (A2)		Thin Dark St	irrace ov Min	(59) (LKK	(R, MILKA) (IDD K I)	49B)	Coast Prair	ie Redox (A16) (LRR K, L, R)
Hydrog	en Sulfide (A4)			od Ma	trix (F2)			5 cm Mucky	y Peat or Peat (S3) (LRR K, L, R)
Stratifie	d Lavers (A5)		Depleted Ma	atrix (l	=3)			Dark Surfac	ce (S7) (LRR K, L)
 Deplete	d Below Dark Surf	ace (A11) Redox Dark	Surfa	ce (F6)			Polyvalue E	elow Surface (S8) (LRR K, L)
Thick Da	ark Surface (A12)		Depleted Da	irk Su	rface (F7)			Thin Dark S	Surface (S9) (LRR K, L)
_			Peday Depr	essior	is (F8)			Iron-Manga	anese Masses (F12) (LRR K, L, R)
_ Sandy N	/lucky Mineral (S1)		Redux Depre						
Sandy N Sandy O	/lucky Mineral (S1) Gleyed Matrix (S4)							Piedmont F	loodplain Soils (F19) (MLRA 149B)
_ Sandy N _ Sandy C Sandy F	/lucky Mineral (S1) Gleyed Matrix (S4) Redox (S5)							Piedmont F	lic (TA6) (MLRA 144A, 145, 149B)
Sandy N Sandy C Sandy F Strippe	Aucky Mineral (S1) Gleyed Matrix (S4) Redox (S5) d Matrix (S6)							Piedmont F Mesic Spod Red Parent	loodplain Soils (F19) (MLRA 149B) lic (TA6) (MLRA 144A, 145, 149B) Material (F21)
Sandy N Sandy C Sandy F Stripped Dark Su	Aucky Mineral (S1) Sleyed Matrix (S4) Redox (S5) d Matrix (S6) Irface (S7) (LRR R, I	MLRA 14	9B)					Piedmont F Mesic Spod Red Parent Very Shallo	loodplain Soils (F19) (MLRA 149B) lic (TA6) (MLRA 144A, 145, 149B) Material (F21) w Dark Surface (TF12)
Sandy N Sandy C Sandy F Stripped Dark Su	Aucky Mineral (S1) Gleyed Matrix (S4) Redox (S5) d Matrix (S6) Irface (S7) (LRR R, I	MLRA 14	9B)				un la condicato un la	Piedmont F Mesic Spod Red Parent Very Shallo Other (Expl	loodplain Solis (F19) (MLKA 149B) lic (TA6) (MLRA 144A, 145, 149B) Material (F21) w Dark Surface (TF12) ain in Remarks)
Sandy N Sandy C Sandy F Stripped Dark Su ndicators	Mucky Mineral (S1) Gleyed Matrix (S4) Redox (S5) d Matrix (S6) Irface (S7) (LRR R, I <u>of hydrophytic veş</u>	MLRA 14 getation	9B) and wetland hyd	rolog	y must be	e present,	unless disturbe	Piedmont F Mesic Spod Red Parent Very Shallo Other (Expl	loodplain Soils (F19) (MLRA 149B) lic (TA6) (MLRA 144A, 145, 149B) Material (F21) w Dark Surface (TF12) ain in Remarks)
Sandy N Sandy C Sandy F Stripped Dark Su ndicators estrictive h	Mucky Mineral (S1) Gleyed Matrix (S4) Redox (S5) d Matrix (S6) Irface (S7) (LRR R, I <u>of hydrophytic veş</u> Layer (if observed) Turoci	MLRA 14 getation):	9B) and wetland hyd	rolog	y must be	e present,	unless disturbe	Piedmont F Mesic Spod Red Parent Very Shallo Other (Expl ed or problematic	Ioodplain Soils (F19) (MLRA 149B) lic (TA6) (MLRA 144A, 145, 149B) Material (F21) w Dark Surface (TF12) ain in Remarks)
Sandy N Sandy C Sandy F Stripped Dark Su ndicators estrictive l	Mucky Mineral (S1) Gleyed Matrix (S4) Redox (S5) d Matrix (S6) Irface (S7) (LRR R, I of hydrophytic veg Layer (if observed) Type: Death (in chock)	MLRA 14 getation):	9B) and wetland hyd	rolog	y must be	e present, Hydric So	unless disturbe il Present?	Piedmont F Mesic Spod Red Parent Very Shallo Other (Expl ed or problematic	Ioodplain Soils (F19) (MLRA 149B) lic (TA6) (MLRA 144A, 145, 149B) Material (F21) w Dark Surface (TF12) ain in Remarks) No
_ Sandy N _ Sandy C _ Sandy F _ Stripped _ Dark Su ndicators estrictive I	Mucky Mineral (S1) Gleyed Matrix (S4) Redox (S5) d Matrix (S6) Irface (S7) (LRR R, I of hydrophytic veg Layer (if observed) Type: Depth (inches):	MLRA 14 getation):	9B) and wetland hyd	rolog	y must be	e present, Hydric Sc	unless disturbe il Present?	Piedmont F Mesic Spod Red Parent Very Shallo Other (Expl ed or problematic	Ioodplain Soils (F19) (MLRA 149B) lic (TA6) (MLRA 144A, 145, 149B) Material (F21) w Dark Surface (TF12) ain in Remarks) ∴No
Sandy N Sandy C Sandy F Stripped Dark Su ndicators estrictive I emarks:	Aucky Mineral (S1) Gleyed Matrix (S4) Redox (S5) d Matrix (S6) Irface (S7) (LRR R, I of hydrophytic veg Layer (if observed) Type: Depth (inches):	MLRA 14 getation : 	9B) and wetland hyd None	rolog	y must be	e present, Hydric Sc	unless disturbe il Present?	Piedmont F Mesic Spod Red Parent Very Shallo Other (Expl ed or problematic Yes	Ioodplain Soils (F19) (MLRA 149B) lic (TA6) (MLRA 144A, 145, 149B) Material (F21) w Dark Surface (TF12) ain in Remarks) No
_ Sandy N _ Sandy C _ Sandy F _ Stripped _ Dark Su ndicators estrictive I	Aucky Mineral (S1) Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) (LRR R, I of hydrophytic veg Layer (if observed) Type: Depth (inches):	MLRA 14 getation :	9B) and wetland hyd None	rolog	y must be	e present, Hydric Sc	unless disturbe il Present?	Piedmont F Mesic Spod Red Parent Very Shallo Other (Expl ed or problematic Yes	Ioodplain Soils (F19) (MLRA 149B) lic (TA6) (MLRA 144A, 145, 149B) Material (F21) w Dark Surface (TF12) ain in Remarks) No∕_
_ Sandy N _ Sandy C _ Sandy F _ Stripped _ Dark Su ndicators estrictive I	Aucky Mineral (S1) Gleyed Matrix (S4) Redox (S5) d Matrix (S6) Irface (S7) (LRR R, I of hydrophytic veg Layer (if observed) Type: Depth (inches):	MLRA 14 getation): 	9B) and wetland hyd None	<u> rolog</u>	y must be	e present, Hydric Sc	unless disturbe il Present?	Piedmont F Mesic Spod Red Parent Very Shallo Other (Expl ed or problematic Yes	Ioodplain Soils (F19) (MLKA 149B) lic (TA6) (MLRA 144A, 145, 149B) Material (F21) w Dark Surface (TF12) ain in Remarks) No
_ Sandy N _ Sandy C _ Sandy F _ Stripped _ Dark Su ndicators estrictive I	Aucky Mineral (S1) Gleyed Matrix (S4) Redox (S5) d Matrix (S6) Irface (S7) (LRR R, I <u>of hydrophytic veş</u> Layer (if observed) Type: Depth (inches):	MLRA 14 getation): 	9B) and wetland hyd None	Irolog	y must be	e present, Hydric Sc	unless disturbe il Present?	Piedmont F Mesic Spod Red Parent Very Shallo Other (Expl ed or problematic Yes	Hoodplain Soils (F19) (MLRA 149B) Hic (TA6) (MLRA 144A, 145, 149B) Material (F21) w Dark Surface (TF12) ain in Remarks)
_ Sandy N _ Sandy C _ Sandy F _ Stripped _ Dark Su ndicators estrictive I	Aucky Mineral (S1) Gleyed Matrix (S4) Redox (S5) d Matrix (S6) Irface (S7) (LRR R, I <u>of hydrophytic veş</u> Layer (if observed) Type: Depth (inches):	MLRA 14 getation): 	9B) and wetland hyd None	Irolog	y must be	e present, Hydric Sc	unless disturbe il Present?	Piedmont F Mesic Spod Red Parent Very Shallo Other (Expl ed or problematic Yes	Ioodplain Soils (F19) (MLRA 149B) lic (TA6) (MLRA 144A, 145, 149B) Material (F21) w Dark Surface (TF12) ain in Remarks)
_ Sandy N _ Sandy C _ Sandy F _ Stripped _ Dark Su ndicators estrictive l	Aucky Mineral (S1) Gleyed Matrix (S4) Redox (S5) d Matrix (S6) Irface (S7) (LRR R, I <u>of hydrophytic veş</u> Layer (if observed) Type: Depth (inches):	MLRA 14 getation): 	9B) and wetland hyd None	Irolog	y must be	e present, Hydric Sc	unless disturbe	Piedmont F Mesic Spod Red Parent Very Shallo Other (Expl ed or problematic Yes	Hoodplain Soils (F19) (MLRA 149B) Hic (TA6) (MLRA 144A, 145, 149B) Material (F21) w Dark Surface (TF12) ain in Remarks)
_ Sandy N _ Sandy C _ Sandy F _ Stripped _ Dark Su ndicators estrictive I	Aucky Mineral (S1) Gleyed Matrix (S4) Redox (S5) d Matrix (S6) Irface (S7) (LRR R, I <u>of hydrophytic veş</u> Layer (if observed) Type: Depth (inches):	MLRA 14 getation): 	9B) and wetland hyd None		y must be	e present, Hydric So	unless disturbe il Present?	Piedmont F Mesic Spod Red Parent Very Shallo Other (Expl ed or problematic Yes	Hoodplain Soils (F19) (MLRA 149B) lic (TA6) (MLRA 144A, 145, 149B) Material (F21) w Dark Surface (TF12) ain in Remarks) No∠
_ Sandy N _ Sandy C _ Sandy F _ Stripped _ Dark Su ndicators estrictive I	Aucky Mineral (S1) Gleyed Matrix (S4) Redox (S5) d Matrix (S6) Irface (S7) (LRR R, I <u>of hydrophytic veş</u> Layer (if observed) Type: Depth (inches):	MLRA 14 getation :	9B) and wetland hyd None	-	y must be	e present, Hydric Sc	unless disturbe il Present?	Piedmont F Mesic Spod Red Parent Very Shallo Other (Expl ed or problematic Yes	Ioodplain Soils (F19) (MLRA 149B) lic (TA6) (MLRA 144A, 145, 149B) Material (F21) w Dark Surface (TF12) ain in Remarks) No∠
_ Sandy N _ Sandy C _ Sandy F _ Stripped _ Dark Su ndicators estrictive I	Aucky Mineral (S1) Gleyed Matrix (S4) Redox (S5) d Matrix (S6) Irface (S7) (LRR R, I <u>of hydrophytic veg</u> Layer (if observed) Type: Depth (inches):	MLRA 14 getation :	9B) and wetland hyd None	-	y must be	e present, Hydric Sc	unless disturbe	Piedmont F Mesic Spod Red Parent Very Shallo Other (Expl ed or problematic Yes	Ioodplain Soils (F19) (MLRA 149B) lic (TA6) (MLRA 144A, 145, 149B) Material (F21) w Dark Surface (TF12) ain in Remarks) No∕_
_ Sandy N _ Sandy C _ Sandy F _ Stripped _ Dark Su ndicators estrictive I	Aucky Mineral (S1) Gleyed Matrix (S4) Redox (S5) d Matrix (S6) Irface (S7) (LRR R, I <u>of hydrophytic veg</u> Layer (if observed) Type: <u>Depth (inches):</u>	MLRA 14 getation :	9B) and wetland hyd None	-	y must be	e present, Hydric So	unless disturbe	Piedmont F Mesic Spod Red Parent Very Shallo Other (Expl ed or problematic Yes	Ioodplain Soils (F19) (MLRA 149B) lic (TA6) (MLRA 144A, 145, 149B) Material (F21) w Dark Surface (TF12) ain in Remarks)
_ Sandy N _ Sandy C _ Sandy F _ Stripped _ Dark Su ndicators estrictive l emarks:	Aucky Mineral (S1) Gleyed Matrix (S4) Redox (S5) d Matrix (S6) Irface (S7) (LRR R, I <u>of hydrophytic veg</u> Layer (if observed) Type: <u>Depth (inches):</u>	MLRA 14 getation):	9B) and wetland hyd None		y must be	e present, Hydric So	unless disturbe	Piedmont F Mesic Spod Red Parent Very Shallo Other (Expl ed or problematic Yes	Ioodplain Soils (F19) (MLRA 149B) lic (TA6) (MLRA 144A, 145, 149B) Material (F21) w Dark Surface (TF12) ain in Remarks) No∕
_ Sandy N _ Sandy C _ Sandy F _ Stripped _ Dark Su ndicators estrictive I	Aucky Mineral (S1) Gleyed Matrix (S4) Redox (S5) d Matrix (S6) Irface (S7) (LRR R, I <u>of hydrophytic ver</u> Layer (if observed) Type: <u>Depth (inches):</u>	MLRA 14 getation ;	9B) and wetland hyd None		y must be	e present, Hydric So	unless disturbe	Piedmont F Mesic Spod Red Parent Very Shallo Other (Expl ed or problematic Yes	Ioodplain Soils (F19) (MLRA 149B) lic (TA6) (MLRA 144A, 145, 149B) Material (F21) w Dark Surface (TF12) ain in Remarks)
_ Sandy N _ Sandy C _ Sandy F _ Stripped _ Dark Su ndicators estrictive I	Aucky Mineral (S1) Gleyed Matrix (S4) Redox (S5) d Matrix (S6) Irface (S7) (LRR R, I <u>of hydrophytic ver</u> Layer (if observed) Type: <u>Depth (inches):</u>	MLRA 14 getation ;	9B) and wetland hyd None		y must be	e present, Hydric So	unless disturbe il Present?	Piedmont F Mesic Spod Red Parent Very Shallo Other (Expl ed or problematic Yes	Iooqpiain Soils (F19) (MLRA 149B) lic (TA6) (MLRA 144A, 145, 149B) Material (F21) w Dark Surface (TF12) ain in Remarks)
Sandy N Sandy C Sandy F Stripped Dark Su ndicators estrictive I emarks:	Aucky Mineral (S1) Sleyed Matrix (S4) Redox (S5) d Matrix (S6) Irface (S7) (LRR R, I <u>of hydrophytic veş</u> Layer (if observed) Type: <u>Depth (inches):</u>	MLRA 14 getation :	9B) and wetland hyd None		y must be	e present, Hydric Sc	unless disturbe	Piedmont F Mesic Spod Red Parent Very Shallo Other (Expl ed or problematic Yes	Ioodplain Soils (F19) (MLRA 149B) lic (TA6) (MLRA 144A, 145, 149B) Material (F21) w Dark Surface (TF12) ain in Remarks)
Sandy N Sandy C Sandy F Stripped Dark Su ndicators estrictive I emarks:	Aucky Mineral (S1) Sleyed Matrix (S4) Redox (S5) d Matrix (S6) Irface (S7) (LRR R, I of hydrophytic veş Layer (if observed) Type: Depth (inches):	MLRA 14 getation :	9B) and wetland hyd None		y must be	e present, Hydric Sc	unless disturbe	Piedmont F Mesic Spod Red Parent Very Shallo Other (Expl ed or problematic Yes	Iooqpiain Soils (F19) (MLRA 149B) Iic (TA6) (MLRA 144A, 145, 149B) Material (F21) w Dark Surface (TF12) ain in Remarks)
Sandy N Sandy C Sandy F Stripped Dark Su ndicators estrictive I 	Aucky Mineral (S1) Sleyed Matrix (S4) Redox (S5) d Matrix (S6) Irface (S7) (LRR R, I of hydrophytic veg Layer (if observed) Type: Depth (inches):	MLRA 14 getation):	9B) and wetland hyd None		y must be	e present, Hydric Sc	unless disturbe	Piedmont F Mesic Spod Red Parent Very Shallo Other (Expl ed or problematic Yes	Ioodplain Soils (F19) (MLRA 149B) Iic (TA6) (MLRA 144A, 145, 149B) Material (F21) w Dark Surface (TF12) ain in Remarks) No∠
Sandy N Sandy C Sandy F Stripped Dark Su ndicators estrictive I emarks:	Aucky Mineral (S1) Sleyed Matrix (S4) Redox (S5) d Matrix (S6) Irface (S7) (LRR R, I of hydrophytic veg Layer (if observed) Type: Depth (inches):	MLRA 14 getation :	9B) and wetland hyd None		y must be	e present, Hydric Sc	unless disturbe	Piedmont F Mesic Spod Red Parent Very Shallo Other (Expl ed or problematic Yes	Ioodplain Soils (F19) (MLRA 149B) Iic (TA6) (MLRA 144A, 145, 149B) Material (F21) w Dark Surface (TF12) ain in Remarks) No∠
_ Sandy N _ Sandy C _ Sandy F _ Stripped _ Dark Su hdicators estrictive I emarks:	Aucky Mineral (S1) Sleyed Matrix (S4) Redox (S5) d Matrix (S6) Irface (S7) (LRR R, I of hydrophytic veg Layer (if observed) Type: Depth (inches):	MLRA 14 getation :	9B) and wetland hyd None		y must be	e present, Hydric Sc	unless disturbe	Piedmont F Mesic Spod Red Parent Very Shallo Other (Expl ed or problematic Yes	Ioodplain Soils (F19) (MLRA 149B) Iic (TA6) (MLRA 144A, 145, 149B) Material (F21) w Dark Surface (TF12) ain in Remarks) ∴ No
_ Sandy N _ Sandy C _ Sandy F _ Stripped _ Dark Su ndicators estrictive l emarks:	Aucky Mineral (S1) Sleyed Matrix (S4) Redox (S5) d Matrix (S6) Irface (S7) (LRR R, I of hydrophytic veg Layer (if observed) Type: Depth (inches):	MLRA 14 getation :	9B) and wetland hyd None		y must be	e present, Hydric Sc	unless disturbe	Piedmont F Mesic Spod Red Parent Very Shallo Other (Expl ed or problematic Yes	Ioodplain Solis (F19) (MLRA 149B) Iic (TA6) (MLRA 144A, 145, 149B) Material (F21) w Dark Surface (TF12) ain in Remarks) :. No∠

Hydrology Photos



Soil Photos




WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: High River	City/County: Florida, Montgomery	Sampling Date: 2017-July-17				
Applicant/Owner: NextEra	State: No	New York Sampling Point: W-ARS-01; PEM-1				
Investigator(s): Andrew Steiner, Adeline Bellesheim Section, Township, Range:						
Landform (hillslope, terrace, etc.): Plain	Local relief (concave, cor	onvex, none): Concave Slope (%): 1-10				
Subregion (LRR or MLRA): MLRA 101 of LRR L	Lat: 42.9036411	Long: -74.135178 Datum: WGS84				
Soil Map Unit Name: Churchville silty clay loam	0 to 3 percent slopes (ChA)	NWI classification:				
Are climatic/hydrologic conditions on the site typic	al for this time of year? Yes 🧹 N	No (If no, explain in Remarks.)				
Are Vegetation, Soil, or Hydrology	significantly disturbed? Are "Norr	rmal Circumstances" present? Yes 🟒 No				
Are Vegetation, Soil, or Hydrology	naturally problematic? (If needed	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									
Hydric Soil Present?	Yes 🟒 No	Is the Sampled Area within a Wetland?	Yes 🟒 No _							
Wetland Hydrology Present?	Yes 🟒 No	lf yes, optional Wetland Site ID:	W-ARS-01							
Remarks: (Explain alternative procedures he	Remarks: (Explain alternative procedures here or in a separate report)									
TRC covertype is PEM. Area is wetland, all th	ree wetland parameters a	ire present. cow pasture								

Wetland Hydrology Indicators:						
Primary Indicators (minimum of on	ne is required; ch	Secondary Indicators (minimum of two required)				
Surface Water (A1) High Water Table (A2) _∕ Saturation (A3) Water Marks (B1) Sediment Deposits (B2)		Water-Sta Aquatic Fa Marl Depo Hydrogen Oxidized F	ined Leaves (B9) auna (B13) osits (B15) Sulfide Odor (C1) Rhizospheres on Living Ro	ots (C3)	 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) 	
Drift Deposits (B3) Pres Algal Mat or Crust (B4) Rece Iron Deposits (B5) Thin Inundation Visible on Aerial Imagery (B7) Other Sparsely Vegetated Concave Surface (B8) Concave Surface (B8)			of Reduced Iron (C4) on Reduction in Tilled Soils s Surface (C7) olain in Remarks)	(C6)	 Stunted or Stressed Plants (D1) Geomorphic Position (D2) Shallow Aquitard (D3) Microtopographic Relief (D4) FAC-Neutral Test (D5) 	
Field Observations:						
Surface Water Present?	Yes No 🟒	<u>/</u>	Depth (inches):		_	
Water Table Present?	Yes No 🟒	<u>/</u>	Depth (inches):		Wetland Hydrology Present? Yes No	
Saturation Present?	Yes 🟒 No 🔄		Depth (inches):	0	_	
(includes capillary fringe)						
Describe Recorded Data (stream ga	auge, monitoring	g well, aeria	al photos, previous inspect	ions), if a	available:	
Remarks:						
A positive indication of wetland hyd	drology was obse	erved (prim	nary and secondary indicat	tors were	e present).	

Sampling Point: W-ARS-01; PEM-1

Tree Stratum (Plot size: 30 ft)	Absolute	Dominant	Indicator	Dominance Test works	heet:		
	% Cover	Species?	Status	Number of Dominant S	Species That	1	(A)
1				Are OBL, FACW, or FAC	:		
2				Total Number of Domi	nant Species	2	(B)
3				Across All Strata:			
4				Percent of Dominant S	pecies That	50	(A/B)
5				Browslance Index work	choot:		
6				Total % Cover	of	Multiply	Bv <i>r</i>
7					15	<u>v 1 =</u>	15
	0	= Total Cov	rer	EACW species	35	×2=	70
Sapling/Shrub Stratum (Plot size: <u>15 ft</u>)				FAC species	5	×2- -	15
1				EACLI species	5	× 4 -	220
2.						× 4	220
3.				Column Totals	110	× 5 = _	220 (0)
4.				- Dravalance Ir	$P_{\rm rel}$	(A)	320 (B)
5.						2.9	
6.				Hydrophytic Vegetatio	n Indicators:		
7.				1- Rapid Test for I	-lydrophytic \	/egetation	
	0	= Total Cov	rer	2 - Dominance Te	st is > 50%		
Herb Stratum (Plot size: <u>5 ft</u>)		-		3 - Prevalence Inc	lex is $\leq 3.0^{\circ}$		
1. Poa pratensis	50	Yes	FACU	4 - Morphological	Adaptations	' (Provide	supporting
2. Phalaris arundinacea	20	Yes	FACW	Problematic Hydr	a separate si	itation ¹ (Ev	nlain)
3. Scirpus atrovirens	5	No	OBL	1Indicators of hydric so	il and wetlan		av must he
4. Phleum pratense	5	No	FACU	present, unless disturb	ed or proble	matic	Sy mast be
5. Euthamia graminifolia	5	No	FAC	Definitions of Vegetation	on Strata:		
6. <i>Carex vulpinoidea</i>	5	No	OBL	Tree – Woody plants 3	in. (7.6 cm) o	r more in o	diameter at
7. Verbena hastata	5	No	FACW	breast height (DBH), re	gardless of h	eight.	
8. <i>Typha latifolia</i>	5	No	OBL	Sapling/shrub - Woody	/ plants less t	han 3 in. D	OBH and
9. <i>Carex scoparia</i>	5	No	FACW	greater than or equal t	o 3.28 ft (1 m	ı) tall.	
10. <i>Onoclea sensibilis</i>	5	No	FACW	Herb – All herbaceous	(non-woody)	plants, reg	gardless of
11.				size, and woody plants	less than 3.2	8 ft tall.	
12.				Woody vines – All wood	dy vines grea	ter than 3.	28 ft in
	110	= Total Cov	rer	height.			
<u>Woody Vine Stratum</u> (Plot size: <u>30 ft</u>)		-		Hydrophytic Vegetatio	n Present?	Yes 🟒 N	lo
1.							
2.							
3.							
4.							
	0	= Total Cov	rer				
		-		<u> </u>			
Remarks: (Include photo numbers here or on a separat	e sneet.)						

(incrico)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0 - 4	10YR 2/1	100					Silt Loam	l
4 - 16	10YR 2/1	60	7.5YR 3/4	40	<u> </u>	M	Silt Loam	·
						<u> </u>		
				_				
				_				
				_				
vne: (= (Concentration D =	Depleti	on RM = Reduced	- Mati	rix MS =	Masked S	and Grains ²	ocation: PI = Pore Lining M = Matrix
/dric Soil	Indicators:	Depicti		inaci	17, 110	masica		Indicators for Problematic Hydric Soils ³ :
_ Black Hi _ Hydroge _ Stratifie _ Deplete _ Thick Da _ Sandy N _ Sandy R _ Sandy R	en Sulfide (A4) ed Layers (A5) ed Below Dark Surf ark Surface (A12) Mucky Mineral (S1) Sleyed Matrix (S4) Redox (S5)	ace (A11	Loamy Mick Loamy Gleye Depleted Ma]) Redox Dark S Depleted Da Redox Depre	d Ma trix (F Surfac rk Sui ession	Frair (F1) trix (F2) (F3) (F6) face (F6) face (F7) (F8)	(LKK K, L)		 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Dark Surface (S7) (LRR K, L) Polyvalue Below Surface (S8) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149E Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
Stripped Dark Su	d Matrix (S6) ırface (S7) (LRR R, I	MLRA 14	9B)					Red Parent Material (F21) Very Shallow Dark Surface (TF12) Other (Explain in Remarks)
Stripped Dark Su ndicators	d Matrix (S6) ırface (S7) (LRR R, I of hydrophytic veş Laver (if observed)	MLRA 14 getation	9 B) and wetland hydi	rology	y must b	e present,	unless disturbe	Red Parent Material (F21) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) ed or problematic.
Stripped Dark Su ndicators estrictive l emarks:	d Matrix (S6) ırface (S7) (LRR R, I <u>of hydrophytic veş</u> Layer (if observed) Type: Depth (inches):	MLRA 14 getation :	l 9B) and wetland hydi None	rology	y must b	e present, Hydric S	unless disturbe	Red Parent Material (F21) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) ed or problematic. Yes No



WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: High River	City/County: Florida, Montgo	mery	Sampling Date: 2017-July-17		
Applicant/Owner: NextEra		State: New York	Sampling Point: W-A	RS-01; UPL-1	
Investigator(s): Andrew Steiner, Adeline Be	ellesheim Sect	ion, Township, Range:			
Landform (hillslope, terrace, etc.): Hillslo	pe Local relief	(concave, convex, none):	None	Slope (%): 15-20	
Subregion (LRR or MLRA): LRR L	Lat:	42.9035708 Long	-74.1350912	Datum: WGS84	
Soil Map Unit Name: Appleton silt loam, 3	to 8 percent slopes (ApB)		NWI classificatio	n:	
Are climatic/hydrologic conditions on the site	typical for this time of year?	Yes 🟒 No (If n	o, explain in Remarks.)		
Are Vegetation, Soil, or Hydro	ology significantly disturbed?	Are "Normal Circums	stances" present?	Yes 🟒 No	
Are Vegetation, Soil, or Hydro	ology naturally problematic?	(If needed, explain a	ny answers in Remarks	.)	

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes No 🟒									
Hydric Soil Present?	Yes No 🟒	Is the Sampled Area within a Wetland?	Yes No 🟒							
Wetland Hydrology Present?	Yes No	lf yes, optional Wetland Site ID:								
Remarks: (Explain alternative procedures here or in a separate report)										
TRC covertype is UPL. Area is upland, not all t	hree wetland parameter	s are present. cow pasture								

Wetland Hydrology Indicators:				
Primary Indicators (minimum of one is	Secondary Indicators (minimum of two required)			
Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2)	 Water-Stained Leaves (B9) Aquatic Fauna (B13) Marl Deposits (B15) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Roots (C3) 	 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) 		
Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery Sparsely Vegetated Concave Surface	 Stunted or Stressed Plants (D1) Geomorphic Position (D2) Shallow Aquitard (D3) Microtopographic Relief (D4) FAC-Neutral Test (D5) 			
Field Observations:				
Surface Water Present? Ye Water Table Present? Ye Saturation Present? Ye	s No ✓ Depth (inches): s No ✓ Depth (inches): s No ✓ Depth (inches):	Wetland Hydrology Present? Yes No		
(includes capillary fringe)		-		
Describe Recorded Data (stream gauge	, monitoring well, aerial photos, previous inspections), if	available:		
Remarks: No positive indication of wetland hydro	logy was observed.			

Sampling Point: W-ARS-01; UPL-1

<u>Tree Stratum (Plot size:30 ft)</u>	Absolute	Dominant	Indicator	Dominance Test worksheet:		
	% Cover	Species?	Status	Number of Dominant Species That	0	(A)
1				Total Number of Dominant Species		
2				Across All Strata	1	(B)
3				Percent of Dominant Species That		
4.				Are OBL FACW or FAC:	0	(A/B)
5				Prevalence Index worksheet		
6				Total % Cover of:	Multiply	Bv.
7				- OBL species 0	x 1 =	<u>- 0</u>
	0	= Total Cove	r	FACW species 0	x 2 =	0
<u>Sapling/Shrub Stratum</u> (Plot size: <u>15 ft</u>)				FAC species 0	x 3 =	0
1				FACU species 106	× 4 =	474
2				IIPL species 0	×5=	0
3.				Column Totals	(A) -	424 (P)
4.					(A) _	424 (D)
5.				Prevalence index – B/A –	4	
6.				Hydrophytic Vegetation Indicators:		
7.				1- Rapid Test for Hydrophytic	Vegetation	I
	0	= Total Cove	r	2 - Dominance Test is > 50%		
Herb Stratum (Plot size: 5 ft)		-		3 - Prevalence Index is $\leq 3.0^{1}$		
1. Poa pratensis	60	Yes	FACU	4 - Morphological Adaptations	¹ (Provide	supporting
2. Phleum pratense	10	No	FACU	data in Remarks or on a separate s	neet)	
3. Dactylis glomerata	10	No	FACU	Problematic Hydrophytic Vege	etation' (Ex	(plain)
4 Solidago canadensis		No	FACU	- Indicators of hydric soil and wetlar	id hydrolog	gy must be
5 Taraxacum officinale		No	FACU	Definitions of Venetation Strates	matic	<u> </u>
6 Cichorium intyhus	5	No	FACU	Tree Woody plants 2 in (7.6 cm)	r mara in	diamatar at
7 Circium anyonse	5		FACU	breast beight (DBH) regardless of t	n more mo noight	ulameter at
			TACO	Sanling/shrub - Woody plants less	than 3 in T)BH and
o				greater than or equal to 3.28 ft (1 n	n) tall.	birana
10				Herb – All herbaceous (non-woody)	plants, reg	gardless of
11				size, and woody plants less than 3.2	28 ft tall.	
12				Woody vines – All woody vines grea	ater than 3	.28 ft in
12	100	- Total Cause		height.		
	106	= Total Cove	ſ	Hydrophytic Vegetation Present?	Yes N	10 1
<u>woody vine Stratum</u> (Plot size: <u>30 ft</u>)						
1						
2.				-		
3						
4						
	0	= Total Cove	r			
Remarks: (Include photo numbers here or on a sepa	arate sheet.)					
No positive indication of hydrophytic vegetation wa	s observed (≥	50% of domi	nant specie	es indexed as FAC– or drier).		
	·					

	Color (moist)	%	Color (moist)	% Тур	e ¹ Loc ²	Texture		Remarks
) - 16	10YR 3/3	100		·		Silty Clay		
				·				
				·				
		·		· <u> </u>				
<u>ric Soil I</u>	oncentration, D = I ndicators:	Jepletio	n, RM = Reduced	Matrix, M	S = Masked Sa	nd Grains. ² Loo	ation: PL = Po Indicators for	re Lining, M = Matrix. Problematic Hvdric Soils ³ :
Black Hi Hydroge Stratified Depleted Thick Da Sandy M Sandy G Sandy R Strippec Dark Su	stic (A3) en Sulfide (A4) d Layers (A5) d Below Dark Surfa rrk Surface (A12) lucky Mineral (S1) leyed Matrix (S4) edox (S5) l Matrix (S6) rface (S7) (LRR R, M	ice (A11) ILRA 149	Loamy Muck Loamy Gleye Depleted Ma Redox Dark S Depleted Dar Redox Depre	y Mineral (d Matrix (F trix (F3) Gurface (F6 k Surface ssions (F8)	F1) (LRR K, L) F2) (F7)		5 cm Mucl Dark Surfa Polyvalue Thin Dark Iron-Mang Piedmont Mesic Spo Red Paren Very Shalla	ky Peat or Peat (S3) (LRR K, L, R) ace (S7) (LRR K, L) Below Surface (S8) (LRR K, L) Surface (S9) (LRR K, L) anese Masses (F12) (LRR K, L, R) Floodplain Soils (F19) (MLRA 149B) dic (TA6) (MLRA 144A, 145, 149B) t Material (F21) bw Dark Surface (TF12) olain in Remarks)
dicators	of hydrophytic vege	etation a	nd wetland hydr	ology mus	st be present, ι	inless disturbed	or problemat	ic.
trictive I			None		Hydric So	il Present?	Yes _	No
marks:	Depth (inches):							



WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: High Rive	er	City/County: Florida, Montgomery				Sampling Date: 2017-July-17		
Applicant/Owner: N	lextEra				State:	New York	Sampling Point:	W-ARS-02; PEM-1
Investigator(s): Andr	rew Steiner, Ad	eline Bellesheim		Sec	tion, Towns	ship, Range:		
Landform (hillslope, te	rrace, etc.):	Depression	L	ocal relief	(concave,	convex, none)	: Concave	Slope (%): 1-10
Subregion (LRR or MLR	RA): LRR L			Lat:	42.903322	28 Long	: -74.1347271	Datum: WGS84
Soil Map Unit Name:	Darien silt loa	am, 3 to 8 percent	slopes (DaB)				NWI classif	ication:
Are climatic/hydrologic	conditions on	the site typical for	r this time of yea	r?	Yes 🖌	_ No (If r	no, explain in Rema	arks.)
Are Vegetation,	Soil, 0	or Hydrology	significantly dist	urbed?	Are "N	ormal Circum	stances" present?	Yes 🟒 No
Are Vegetation,	Soil, o	or Hydrology	naturally proble	matic?	(If nee	ded, explain a	ny answers in Ren	narks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes 🟒 No									
Hydric Soil Present?	Yes 🟒 No	Is the Sampled Area within a Wetland?	Yes 🯒 No _							
Wetland Hydrology Present?	Yes 🟒 No	If yes, optional Wetland Site ID:	W-ARS-02							
Remarks: (Explain alternative procedures h	Remarks: (Explain alternative procedures here or in a separate report)									
TRC covertype is PEM. Area is wetland, all t	hree wetland parameters	are present. depression in agricultural field								

			,			
Wetland Hydrology Indicators:						
Primary Indicators (minimum of on	ie is required; check a	Secondary Indicators (minimum of two required)				
Surface Water (A1) High Water Table (A2) _✓ Saturation (A3) Water Marks (B1) Sediment Deposits (B2)	Wate Aqua Marl Hydr Oxid	er-Stained Leaves (B9) atic Fauna (B13) Deposits (B15) rogen Sulfide Odor (C1) lized Rhizospheres on Living I	Roots (C3)	 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) 		
 Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Ima Sparsely Vegetated Concave Su 	Pres Rece Thin agery (B7) Othe rface (B8)	ence of Reduced Iron (C4) ent Iron Reduction in Tilled So Muck Surface (C7) er (Explain in Remarks)	oils (C6)	 Stunted or Stressed Plants (D1) Geomorphic Position (D2) Shallow Aquitard (D3) Microtopographic Relief (D4) (EAC Neutral Tast (D5) 		
Field Observations:						
Surface Water Present?	Yes No 🖌	Depth (inches):		- Wetland Hydrology Present? Yes / No		
Saturation Present?		Depth (inches):		-		
(includes capillany fringe)	1es _ / _ No	Deptil (iliciles).		-		
Describe Recorded Data (stream g		aarial photos, provious insp	octions) if			
	auge, morntoring weil,	achai photos, previous insp		avanable.		
Remarks:						
A positive indication of wetland hyd	drology was observed	(primary and secondary indi	cators wer	e present).		

Sampling Point: W-ARS-02; PEM-1

True Charles (District) 20 ft)	Absolute	Dominant	Indicator	Dominance Test works	heet:		
<u>Iree Stratum (Plot size: _30 ft_)</u>	% Cover	Species?	Status	Number of Dominant S	Species That	1	(A)
1.				Are OBL, FACW, or FAC	:	· ·	(~)
2.	·			Total Number of Domi	nant Species	1	(B)
3.	·			Across All Strata:		· · ·	(8)
4.				Percent of Dominant S	pecies That	100	(A/B)
5.	·			Are OBL, FACW, or FAC	<u>.</u>		
6.	·			Prevalence Index work	sheet:		_
7.				Total % Cover	<u>of:</u>	Multiply I	<u>By:</u>
	0	= Total Cove	er	OBL species	5	x1=	5
Sapling/Shrub Stratum (Plot size: 15 ft)		_		FACW species	82	x 2 =	164
1.				FAC species	10	x 3 =	30
2				FACU species	2	x 4 =	8
3	·			UPL species	1	x 5 =	5
	·			Column Totals	100	(A)	212 (B)
	·			Prevalence In	ndex = B/A =	2.1	
с	·	<u> </u>		Hydrophytic Vegetation	n Indicators:		
0				1- Rapid Test for I	Hydrophytic V	/egetation	
/		- Tatal Cau		_✔_ 2 - Dominance Te	st is >50%		
	0	= lotal Cove	er	3 - Prevalence Inc	dex is $\leq 3.0^1$		
Herb Stratum (Plot size: <u>5 ft</u>)	70		EA CIAL	4 - Morphological	Adaptations	(Provide s	supporting
1. Phalaris arundinacea	/0	Yes	FACW	data in Remarks or on	a separate sh	neet)	
2. Euthamia graminifolia	10	No	FAC	Problematic Hydr	ophytic Vege	tation ¹ (Ex	plain)
3. <u>Verbena hastata</u>	10	No	FACW	¹ Indicators of hydric so	il and wetlan	d hydrolog	y must be
4. <u>Scirpus atrovirens</u>	3	No	OBL	present, unless disturb	ed or probler	matic	
5. <i>Carex vulpinoidea</i>	2	No	OBL	Definitions of Vegetation	on Strata:		
6. <i>Phragmites australis</i>	2	No	FACW	Tree – Woody plants 3	in. (7.6 cm) or	r more in d	liameter at
7. <i>Fragaria virginiana</i>	2	No	FACU	breast height (DBH), re	gardless of h	eight.	
8. <i>Daucus carota</i>	1	No	UPL	Sapling/shrub - Woody	/ plants less tl	han 3 in. D	BH and
9				greater than or equal t	o 3.28 ft (1 m) tall.	
10				Herb – All herbaceous	(non-woody)	plants, reg	ardless of
11				size, and woody plants	less than 3.2	8 ft tall.	
12				Woody vines – All woo	dy vines great	ter than 3.	28 ft in
	100	= Total Cove	er	neight.			
<u>Woody Vine Stratum</u> (Plot size: <u>30 ft</u>)		_		Hydrophytic Vegetatic	on Present?	/es 🟒 N	0
1.							
2.							
3.							
4.							
	0	= Total Cove	er				
		-					
Remarks: (Include photo numbers here or on a separat	te sneet.)						
Active agricultural field							

Sampling Point: W-ARS-02; PEM-1

(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Te	exture	Remarks
0 - 7	10YR 2/1	100				<u> </u>	Silty C	lay Loam	
7 - 16	10YR 2/2	70	10YR 3/6	30	С	М	Cla	y Loam	
				—		<u> </u>			
						<u> </u>			
					<u> </u>	<u> </u>			
¹ Type: C =	Concentration, D =	Depleti	on, RM = Reduced	Mat	rix, MS =	Masked	Sand Grains.	² Location: PL = Por	e Lining, M = Matrix.
Hydric Soil	Indicators:		•					Indicators for F	Problematic Hydric Soils ³ :
Histoso	ol (A1)		Polyvalue Be	low S	urface (S	8) (LRR R	R, MLRA 149B)	2 cm Muck	(A10) (LRR K, L, MLRA 149B)
Histic E	pipedon (A2)		Thin Dark Su	rface	(S9) (LRR	R, MLRA	(149B)	Coast Prair	ie Redox (A16) (LRR K, L, R)
Black H	istic (A3) ien Sulfide (A4)		Loamy Muck	y Min d Ma	ieral (F1) triv (F2)	(LRR K, L)	5 cm Muck	y Peat or Peat (S3) (LRR K, L, R)
Stratifie	en Sunde (A4) ed Lavers (A5)		Loany Gleye	u ivia trix (l	111X (FZ) =3)			Dark Surfa	ce (S7) (LRR K, L)
Deplete	ed Below Dark Surf	ace (A11	1)_✓ Redox Dark S	Surfa	ce (F6)			Polyvalue E	Below Surface (S8) (LRR K, L)
Thick D	ark Surface (A12)		Depleted Dar	rk Sui	rface (F7)			Thin Dark S	Surface (S9) (LRR K, L)
Sandy M	Mucky Mineral (S1)		Redox Depre	essior	ns (F8)			Iron-Manga	anese Masses (F12) (LRR K, L, R)
	Cloud Matrix (S4)							Pleamont P	-1000plain Solis (F19) (MLRA 149B)
Sandy (Gleyeu Matrix (34)							Masic Snor	lic (TAG) (MI RA 1/1A 1/15 1/9R)
Sandy (Sandy I	Redox (S5)							Mesic Spoc	lic (TA6) (MLRA 144A, 145, 149B) Material (E21)
Sandy (Sandy I Strippe	Redox (S5) d Matrix (S6)							Mesic Spoc Red Parent Verv Shallo	lic (TA6) (MLRA 144A, 145, 149B) : Material (F21) w Dark Surface (TE12)
Sandy (Sandy I Strippe Dark Su	Redox (S5) d Matrix (S6) urface (S7) (LRR R, 1	MLRA 14	19B)					Mesic Spoc Red Parent Very Shallo Other (Expl	lic (TA6) (MLRA 144A, 145, 149B) : Material (F21) w Dark Surface (TF12) lain in Remarks)
Sandy (Sandy I Strippe Dark Su ³ Indicators	Redox (S5) d Matrix (S6) urface (S7) (LRR R, I of hydrophytic ve;	MLRA 14	I9B) and wetland hydr	rolog	y must be	e present	t, unless distur	Mesic Spoc Red Parent Very Shallo Other (Expl bed or problematic	lic (TA6) (MLRA 144A, 145, 149B) : Material (F21) w Dark Surface (TF12) lain in Remarks) :.
Sandy (Sandy I Strippe Dark Su ³ Indicators Restrictive	Redox (S5) d Matrix (S6) urface (S7) (LRR R, l of hydrophytic ve; Layer (if observed)	MLRA 14 getation):	I9B) and wetland hydr	rolog	y must be	e present	t, unless distur	Mesic Spoc Red Parent Very Shallo Other (Expl bed or problematic	lic (TA6) (MLRA 144A, 145, 149B) : Material (F21) w Dark Surface (TF12) lain in Remarks) <u>-</u> .
Sandy (Sandy I Strippe Dark Su <u>3Indicators</u> Restrictive	Redox (S5) d Matrix (S6) urface (S7) (LRR R, 1 of hydrophytic ve; Layer (if observed) Type:	MLRA 14 getation):	19B) and wetland hydr None	rolog	y must be	e present	t, unless distur Soil Present?	Mesic Spoc Red Parent Very Shallo Other (Expl	lic (TA6) (MLRA 144A, 145, 149B) : Material (F21) w Dark Surface (TF12) lain in Remarks) :. Yes∕ No
Sandy (Sandy I Strippe Dark Su ³ Indicators Restrictive	Redox (S5) d Matrix (S6) urface (S7) (LRR R, of hydrophytic ve; Layer (if observed) Type: Depth (inches):	MLRA 14 getation):	19B) and wetland hydr None	rolog	y must be	e present	t, unless distur Soil Present?	Mesic Spoc Red Parent Very Shallo Other (Expl	lic (TA6) (MLRA 144A, 145, 149B) : Material (F21) w Dark Surface (TF12) lain in Remarks) :
Sandy (Sandy I Strippe Dark Su ³ Indicators Restrictive 	Redox (S5) d Matrix (S6) urface (S7) (LRR R, I of hydrophytic ver Layer (if observed Type: Depth (inches):	MLRA 14 getation):	I9B) and wetland hydr None	rolog	y must be	e present	t, unless distur Soil Present?	Mesic Spoc Red Parent Very Shallo Other (Expl bed or problematic	lic (TA6) (MLRA 144A, 145, 149B) : Material (F21) w Dark Surface (TF12) lain in Remarks) :. Yes∕ No
Sandy (Sandy I Strippe Dark Su ³ Indicators Restrictive Remarks:	Redox (S5) d Matrix (S6) urface (S7) (LRR R , I of hydrophytic ve Layer (if observed Type: Depth (inches):	MLRA 14 getation):	I9B) and wetland hydr None	rolog	y must be	e present Hydric	t, unless distur Soil Present?	Mesic Spoc Red Parent Very Shallo Other (Expl	lic (TA6) (MLRA 144A, 145, 149B) Material (F21) w Dark Surface (TF12) lain in Remarks) c.
Sandy (Sandy I Strippe Dark Su *Indicators Restrictive Remarks:	Redox (S5) d Matrix (S6) urface (S7) (LRR R , I of hydrophytic ver Layer (if observed Type: Depth (inches):	MLRA 14 getation : 	I9B) and wetland hydr None	rolog	y must be	e present Hydric	t, unless distur Soil Present?	Mesic Spoc Red Parent Very Shallo Other (Expl	lic (TA6) (MLRA 144A, 145, 149B) Material (F21) w Dark Surface (TF12) lain in Remarks)
Sandy (Sandy I Strippe Dark Su 3Indicators Restrictive Remarks:	Redox (S5) d Matrix (S6) urface (S7) (LRR R, I of hydrophytic ver Layer (if observed) Type: Depth (inches):	MLRA 14 getation): 	I9B) and wetland hydr None	rolog	y must be	e present	t, unless distur Soil Present?	Mesic Spoc Red Parent Very Shallo Other (Expl	lic (TA6) (MLRA 144A, 145, 149B) Material (F21) w Dark Surface (TF12) lain in Remarks) <u>-</u> Yes <u>/</u> No
Sandy (Sandy I Strippe Dark Su 3Indicators Restrictive 	Redox (S5) d Matrix (S6) urface (S7) (LRR R, 1 of hydrophytic ve; Layer (if observed) Type: Depth (inches):	MLRA 14 getation ::	19B) and wetland hydr None	rolog	y must be	e present	t, unless distur Soil Present?	Mesic Spoc Red Parent Very Shallo Other (Expl	lic (TA6) (MLRA 144A, 145, 149B) ∴ Material (F21) w Dark Surface (TF12) lain in Remarks) YesNo
Sandy (Sandy I Strippe Dark Su <u>3Indicators</u> Restrictive 	Redox (S5) d Matrix (S6) urface (S7) (LRR R, I of hydrophytic ve; Layer (if observed) Type: Depth (inches):	MLRA 14 getation :	19B) and wetland hydr None	<u>rolog</u>	y must be	e present	t, unless distur Soil Present?	Mesic Spoc Red Parent Very Shallo Other (Expl	lic (TA6) (MLRA 144A, 145, 149B) : Material (F21) w Dark Surface (TF12) lain in Remarks) :. Yes∕_ No
Sandy (Sandy I Strippe Dark Su <u>3Indicators</u> Restrictive Remarks:	Redox (S5) d Matrix (S6) urface (S7) (LRR R, I of hydrophytic ve; Layer (if observed) Type: Depth (inches):	MLRA 14 getation :	19B) and wetland hydr None	rolog	y must be	e present	t, unless distur Soil Present?	Mesic Spoc Red Parent Very Shallo Other (Expl	lic (TA6) (MLRA 144A, 145, 149B) Material (F21) w Dark Surface (TF12) lain in Remarks) <u>Yes _ ✓ No</u>
Sandy (Sandy I Strippe Dark Su 3Indicators Restrictive Remarks:	Redox (S5) d Matrix (S6) urface (S7) (LRR R, I of hydrophytic ve Layer (if observed) Type: Depth (inches):	MLRA 14 getation ::	19B) and wetland hydr None	rolog	y must be	e present	t, unless distur Soil Present?	Mesic Spoc Red Parent Very Shallo Other (Expl bed or problematic	lic (TA6) (MLRA 144A, 145, 149B) : Material (F21) w Dark Surface (TF12) lain in Remarks) :. Yes∕ No
Sandy (Sandy I Dark Su ³ Indicators Restrictive Remarks:	Redox (S5) d Matrix (S6) urface (S7) (LRR R, I of hydrophytic ve Layer (if observed Type: Depth (inches):	MLRA 14 getation):	l9B) and wetland hydr None	<u>rolog</u>	y must be	e present Hydric	t, unless distur Soil Present?	Mesic Spoc Red Parent Very Shallo Other (Expl	lic (TA6) (MLRA 144A, 145, 149B) Material (F21) w Dark Surface (TF12) lain in Remarks) <u>Yes No</u>
Sandy (Strippe Dark Su 3Indicators Restrictive Remarks:	Redox (S5) d Matrix (S6) urface (S7) (LRR R, I of hydrophytic ve; Layer (if observed) Type: Depth (inches):	MLRA 14 getation):	I9B) and wetland hydr None	rolog	y must be	e present	t, unless distur Soil Present?	Mesic Spoc Red Parent Very Shallo Other (Expl	lic (TA6) (MLRA 144A, 145, 149B) Material (F21) w Dark Surface (TF12) lain in Remarks) <u>Yes No</u>
Sandy (Sandy I Strippe Dark Su 3Indicators Restrictive 	ndication of hydrid	MLRA 14 getation :	19 B) and wetland hydr None	<u>rolog</u>	y must be	e present	t, unless distur Soil Present?	Mesic Spoc Red Parent Very Shallo Other (Expl	lic (TA6) (MLRA 144A, 145, 149B) ∴ Material (F21) w Dark Surface (TF12) lain in Remarks) ∴ Yes No
Sandy (Sandy I Strippe Dark Su <u>3Indicators</u> Restrictive Remarks: A positive i	ndication of hydrid	MLRA 14 getation :	19B) and wetland hydr None	rolog	y must be	e present	t, unless distur Soil Present?	Mesic Spoc Red Parent Very Shallo Other (Expl	lic (TA6) (MLRA 144A, 145, 149B) ∴ Material (F21) w Dark Surface (TF12) lain in Remarks) <u>-</u> . Yes <u>√</u> No
— Sandy G — Sandy I — Strippe Jark Su Indicators Restrictive Remarks:	ndication of hydrid	MLRA 14 getation :	19B) and wetland hydr None	rolog	y must be	e present	t, unless distur Soil Present?	Mesic Spoc Red Parent Very Shallo Other (Expl bed or problematic	lic (TA6) (MLRA 144A, 145, 149B) : Material (F21) w Dark Surface (TF12) lain in Remarks) :. Yes∕ No
Sandy (Sandy I Strippe Dark Su ³ Indicators Restrictive Remarks: A positive i	Redox (S5) d Matrix (S6) urface (S7) (LRR R, I of hydrophytic ver Layer (if observed , Type: Depth (inches):	MLRA 14	19 B) and wetland hydr None	rolog	y must be	e present Hydric	t, unless distur Soil Present?	Mesic Spoc Red Parent Very Shallo Other (Expl bed or problematic	lic (TA6) (MLRA 144A, 145, 149B) ∴ Material (F21) w Dark Surface (TF12) lain in Remarks) c. Yes∕ No
— Sandy G — Sandy I — Strippe Dark Su Indicators Restrictive Remarks:	ndication of hydrid	MLRA 14 getation ;	19 B) and wetland hydr None	rolog	y must be	e present Hydric	t, unless distur Soil Present?	Mesic Spoc Red Parent Very Shallo Other (Expl bed or problematic	lic (TA6) (MLRA 144A, 145, 149B) Material (F21) w Dark Surface (TF12) lain in Remarks) Yes/_ No
— Sandy (Sandy I Strippe Dark Su 3Indicators Restrictive Remarks: A positive i	ndication of hydrid	MLRA 14 getation :	19 B) and wetland hydr None	rolog	y must be	e present	t, unless distur Soil Present?	Mesic Spoc Red Parent Very Shallo Other (Expl bed or problematio	lic (TA6) (MLRA 144A, 145, 149B) Material (F21) w Dark Surface (TF12) lain in Remarks) Yes/_ No
Sandy (Sandy I Strippe Dark Su <u>3Indicators</u> Restrictive Remarks: A positive i	ndication of hydrid	MLRA 14 getation :	19 B) and wetland hydr None	<u>rolog</u>	y must be	e present	t, unless distur Soil Present?	Mesic Spoc Red Parent Very Shallo Other (Expl bed or problematic	lic (TA6) (MLRA 144A, 145, 149B) ∴ Material (F21) w Dark Surface (TF12) lain in Remarks) <u>-</u> Yes <u>√</u> No
Sandy (Sandy I Strippe Dark Su <u>3Indicators</u> Restrictive Remarks: A positive i	ndication of hydrid	MLRA 14 getation :	19 B) and wetland hydr None	rolog	y must be	e present	t, unless distur Soil Present?	Mesic Spoc Red Parent Very Shallo Other (Expl bed or problematic	lic (TA6) (MLRA 144A, 145, 149B) ∴ Material (F21) w Dark Surface (TF12) lain in Remarks) <u>-</u> . Yes <u>√</u> No





WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: High River	City/County: Florida, Montgomery	Sampling Date: 2017-July-17
Applicant/Owner: NextEra	State: New York	Sampling Point: W-ARS-02; UPL-1
Investigator(s): Andrew Steiner, Adeline Belles		
Landform (hillslope, terrace, etc.): Hillslope	Local relief (concave, convex, nor	ne): Convex Slope (%): 1-10
Subregion (LRR or MLRA): LRR L	Lat: 42.9018923 Lo	ng: -74.1330229 Datum: WGS84
Soil Map Unit Name: Darien silt loam, 3 to 8 p	ercent slopes (DaB)	NWI classification:
Are climatic/hydrologic conditions on the site typ	ical for this time of year? Yes 🟒 No (I	f no, explain in Remarks.)
Are Vegetation, Soil, or Hydrolog	y significantly disturbed? Are "Normal Circu	mstances" present? Yes 🟒 No
Are Vegetation, Soil, or Hydrolog	y naturally problematic? (If needed, explair	any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes No 🟒									
Hydric Soil Present?	Yes No 🟒	Is the Sampled Area within a Wetland?	Yes No 🟒							
Wetland Hydrology Present?	Yes No	lf yes, optional Wetland Site ID:								
Remarks: (Explain alternative procedures here or in a separate report)										
TRC covertype is UPL. Area is upland, not all t	hree wetland parameter	s are present. hay field, not mowed								

Wetland Hydrology Indicators:				
Primary Indicators (minimum of one	Secondary Indicators (minimum of two required)			
Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2)	Water-Stained Leaves (B9) Aquatic Fauna (B13) Marl Deposits (B15) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Roots (C3)	 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) 		
Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Ima Sparsely Vegetated Concave Sur	 Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Thin Muck Surface (C7) Other (Explain in Remarks) face (B8) 	 Stunted or Stressed Plants (D1) Geomorphic Position (D2) Shallow Aquitard (D3) Microtopographic Relief (D4) EAC-Neutral Test (D5) 		
Field Observations:				
Surface Water Present? Water Table Present?	Yes No Depth (inches): Yes No Depth (inches):	Wetland Hydrology Present? Yes No		
Saturation Present?	Yes No _	-		
(includes capillary fringe)				
Remarks:	uge, monitoring well, aerial photos, previous inspections), if	available:		
No positive indication of wetland hy	drology was observed.			

Sampling Point: W-ARS-02; UPL-1

<u>Tree Stratum</u> (Plot size: <u>30 ft</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test work	sheet: Species That	0	(A)
1 2				Total Number of Dom	inant Species	2	(B)
3				 Percent of Dominant : Are OBL, FACW, or FAC 	Species That C:	0	(A/B)
5				Prevalence Index wor	ksheet:		
6				– Total % Cove	r of:	Multiply	By:
7				- OBL species	0	x 1 =	0
	0	= Total Cov	er	FACW species	5	x 2 =	10
<u>Sapling/Shrub Stratum</u> (Plot size: <u>15 ft</u>)				FAC species	5	x 3 =	15
1.				– FACU species	90	x 4 =	360
2				- UPL species	0	x 5 =	0
3				- Column Totals	100	(Δ)	385 (B)
4				- Prevalence	Index = $B/A =$	39	303 (D)
5							
6.				Hydrophytic Vegetatio	on Indicators:		
7.				1- Rapid Test for	Hydrophytic V	egetation/	1
	0	= Total Cov	er	2 - Dominance I	est is > 50%		
Herb Stratum (Plot size: 5 ft)		-		3 - Prevalence In	dex is $\leq 3.0^{\circ}$		
1. Phleum pratense	50	Yes	FACU	4 - Morphologica	al Adaptations	(Provide	supporting
2. Poa pratensis		Yes	FACU	- data in Remarks or or	i a separate sri	ieel) tation1(E	(مامام)
3. Lotus corniculatus	15	No	FACU	- Problematic Hyd	ail and watter	duon' (E)	xpiairi)
4. Phalaris arundinacea	5	No	FACW	present unless distur	bed or problem	u nyurolu matic	igy must be
5. Dactvlis glomerata	5	No	FACU	Definitions of Vegetat	ion Strata:	natic	
6 <i>Futhamia graminifolia</i>	5	No	FAC	Tree Woody plants 3	$\frac{1011}{1011}$ $\frac{1011}{10111}$ $\frac{1011}{10111}$ $\frac{1011}{10111}$ $\frac{1011}{10111}$ $\frac{1011}{$	r moro in	diamotor at
7				hreast height (DBH) r	egardless of h	eight	ulameter at
8				- Sanling/shruh - Wood	ly plants less t	han 3 in 1	DBH and
Q				greater than or equal	to 3.28 ft (1 m) tall.	bbirana
10				Herb – All herbaceous	(non-woody)	, plants, re	gardless of
11				size, and woody plant	s less than 3.2	8 ft tall.	0
11				- Woody vines - All woo	ody vines great	ter than 3	.28 ft in
12	100	- Total Cou		height.			
March March Charles (Distributed 20 ft)	100		er	Hydrophytic Vegetati	on Present?	/es I	No 🖌
				j i j j i og i o			
l				-			
2				-			
3				-			
4				-			
	0	= Total Cov	er				

Sampling Point: W-ARS-02; UPL-1

	Color (moist)	%	Color (moist)	%	Type ¹	Loc ² Tex	xture	Remarks
0 - 8	10YR 3/3	100		_		Silt	Loam	
8 - 16	10YR 4/4	70	5YR 4/6	30	С	M Silty C	ay Loam	
				_			· ·	
				_				
				—				
ype: C = C	Concentration, D =	Depleti	on, RM = Reduced	Matr	ix, MS =	Masked Sand Grains. ²	Location: PL = Pore Lining	g, M = Matrix.
ydric Soil	Indicators:						Indicators for Problen	natic Hydric Soils ³ :
Hydroge Stratifie Deplete Thick Da Sandy M Sandy G Sandy R Stripped Dark Su	en Sulfide (A4) d Layers (A5) d Below Dark Surf ark Surface (A12) /ucky Mineral (S1) Sleyed Matrix (S4) Redox (S5) d Matrix (S6) rface (S7) (LRR R, I	ace (A11 MLRA 14	Loamy Gleye Depleted Ma I) Redox Dark S Depleted Da Redox Depre	d Mat trix (F Surfac rk Sur ession	rix (F2) 3) e (F6) face (F7) s (F8)		 Dark Surface (S7) (Polyvalue Below S Thin Dark Surface Iron-Manganese N Piedmont Floodpla Mesic Spodic (TA6) Red Parent Materi Very Shallow Dark Other (Explain in F 	LRR K, L) urface (S8) (LRR K, L) (S9) (LRR K, L) lasses (F12) (LRR K, L, R) ain Soils (F19) (MLRA 149B) (MLRA 144A, 145, 149B) al (F21) Surface (TF12) Remarks)
Indicators	of hydrophytic ve	getation	and wetland hydi	rology	must be	e present, unless disturb	ed or problematic.	
	aver (if observed)	:	Neze			Hydric Soil Present?	Yes_	No
estrictive l	Type:		None			-		
emarks:	Type: Depth (inches):		None					



WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: High River	City/County: F	City/County: Florida, Montgomery				
Applicant/Owner: NextEra	a	State:				
Investigator(s): Andrew St						
Landform (hillslope, terrace,	etc.): Depression	Local relief (concave, convex, none):	Concave Slope (%): 1-10			
Subregion (LRR or MLRA):	LRR L	Lat: 42.9011822 Long:	-74.1320912 Datum: WGS84			
Soil Map Unit Name: Lans	sing silt loam, 8 to 15 percent slopes (La	C)	NWI classification:			
Are climatic/hydrologic cond	litions on the site typical for this time of	Fyear? Yes 🖌 No (If n	o, explain in Remarks.)			
Are Vegetation, Soil _	, or Hydrology significantly	disturbed? Are "Normal Circums	tances" present? Yes 🟒 No			
Are Vegetation, Soil _	, or Hydrology naturally pr	oblematic? (If needed, explain ar	ny answers in Remarks.)			

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes 🟒 No									
Hydric Soil Present?	Yes 🟒 No	Is the Sampled Area within a Wetland?	Yes 🟒 No _							
Wetland Hydrology Present?	Yes 🟒 No	If yes, optional Wetland Site ID:	W-ARS-03							
Remarks: (Explain alternative procedures here or in a separate report)										
TRC covertype is PEM. Area is wetland, all th	ree wetland parameters a	are present. swale type feature								

Wetland Hydrology Indicators:						
Primary Indicators (minimum of on	e is required; check	Secondary Indicators (minimum of two required)				
Surface Water (A1) High Water Table (A2) _✓ Saturation (A3) Water Marks (B1) Sediment Deposits (B2)	Wa Aqu Ma Hyo Oxi	ter-Stained Leaves (B9) Jatic Fauna (B13) rl Deposits (B15) drogen Sulfide Odor (C1) dized Rhizospheres on Living F	Roots (C3)	 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)	
 Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Ima Sparsely Vegetated Concave Su 	Pre Rec Thi agery (B7) Oth rface (B8)	sence of Reduced Iron (C4) ent Iron Reduction in Tilled So n Muck Surface (C7) er (Explain in Remarks)	ils (C6)	Stunted or Stressed Plants (D1) Geomorphic Position (D2) Shallow Aquitard (D3) Microtopographic Relief (D4) FAC-Neutral Test (D5)		
Field Observations:	. ,					
Surface Water Present?	Yes No 🟒	Depth (inches):		_		
Water Table Present?	Yes No 🟒	Depth (inches):		Wetland Hydrology Present? Yes _	🖌 No	
Saturation Present?	Yes 🟒 No	Depth (inches):	0	-		
(includes capillary fringe)				-		
Describe Recorded Data (stream ga	auge, monitoring we	ll, aerial photos, previous insp	ections), if	available:		
Remarks:						
A positive indication of wetland hyd	drology was observe	d (primary and secondary indi	cators wer	e present).		

Sampling Point: W-ARS-03; PEM-1

<u>.</u>	Absolute	Dominant	Indicator	Dominance Test works	heet:		
<u>Iree Stratum</u> (Plot size: <u>30 ft</u>)	% Cover	Species?	Status	Number of Dominant S	Species That	2	(A)
1				Are OBL, FACW, or FAC	:		
2				Across All Strata	nant Species	2	(B)
3				Percent of Dominant S	pecies That		
4				Are OBL, FACW, or FAC	:	100	(A/B)
5.				Prevalence Index work	sheet:		
6				Total % Cover	of:	Multiply E	<u>By:</u>
7				OBL species	39	x 1 =	39
	0	= Total Cov	er	FACW species	43	x 2 =	86
Sapling/Shrub Stratum (Plot size: <u>15 ft</u>)				FAC species	8	x 3 =	24
1				FACU species	0	x 4 =	0
2				UPL species	0	x 5 =	0
3				Column Totals	90	(A)	149 (B)
4.				Prevalence In	ndex = B/A =	1.7	
5.				Hydrophytic Vegetation	n Indicators:		
b	·			1- Rapid Test for I	- - Hydrophytic V	/egetation	
7		Tabal Ca		2 - Dominance Te	st is >50%		
Hards Chartering (Distring C ft.)	0	= lotal Cov	er	3 - Prevalence Inc	lex is $\leq 3.0^1$		
Herb Stratum (Plot size: <u>5 Tt</u>)	20	Voc		4 - Morphological	Adaptations	¹ (Provide s	supporting
1. <u>Pod palustris</u>		Vec		data in Remarks or on	a separate sh	neet)	
2. Lytinum Sancaria	10	No		Problematic Hydr	ophytic Vege	tation ¹ (Ex	plain)
S. <u>Verbena nastata</u>	10	No		¹ Indicators of hydric so	il and wetlan	d hydrolog	y must be
4. Carex sp.	<u> </u>			present, unless disturb	ed or problei	matic	
5. Euthanna granniniona	<u> </u>			Definitions of Vegetation	on Strata:		
6. Gernus amomum	<u> </u>			Iree – Woody plants 3	IN. (7.6 CM) OI	r more in d	lameter at
Contrast amondant		No		Sanling/shruh - Wood	v plants less t	eigilt. han 3 in D	BH and
9 Glyceria striata	3	No		greater than or equal t	o 3.28 ft (1 m	i) tall.	Dirana
10 Rumey verticillatus	- <u></u>	No		Herb – All herbaceous	(non-woody)	plants, reg	ardless of
11		110	ODL	size, and woody plants	less than 3.2	8 ft tall.	
12				Woody vines - All woo	dy vines great	ter than 3.2	28 ft in
12.	100	= Total Cov	er	height.			
Woody Vine Stratum (Plot size: 30 ft)	100		CI	Hydrophytic Vegetatic	n Present?	Yes 🟒 N	0
1							
2							
2. 							
۶. ۸							
· · · · · · · · · · · · · · · · · · ·		= Total Cov	er				
	0	-	ci				
A positive indication of hydrophytic vegetation was obs	served (>50)% of domin	ant species	indexed as OBL, FACW, o	or FAC).		

Sampling Point: W-ARS-03; PEM-1

04 10YR 2/1 100	(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	T	Texture	Remarks
4. 8 10YR 3/1 80 10YR 4/6 20 C M Gravely Sandy Leam Image: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. *Location: PL = Pore Lining, M = Matrix. Image: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. *Location: PL = Pore Lining, M = Matrix. Image: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. *Location: PL = Pore Lining, M = Matrix. Image: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. *Location: PL = Pore Lining, M = Matrix. Image: MS = Masked Sand Grains. *Location: PL = Pore Lining, M = Matrix. Image: MS = Masked Sand Grains. *Location: PL = Pore Lining, M = Matrix. Image: MS = Masked Sand Grains. *Location: PL = Pore Lining, M = Matrix. Image: MS = Masked Sand Grains. *Location: PL = Pore Lining, M = Matrix. Image: MS = Masked Sand Grains. *Location: PL = Pore Lining, M = Matrix. Image: MS = Masked Sand Grains. *Location: PL = Pore Lining, M = Matrix. Image: MS = Masked Sand Grains. *Location: PL = Pore Lining, M = Matrix. Image: Masked Sand Grains. *Location: PL = Pore Lining, M = Matrix. Image: Masked Sand Grains. *Location: PL = Pore Lining, M = Matrix. Imaske: Masked Sand Grains.<	0 - 4	10YR 2/1	100					Muck	ky Silt Loam	
pe: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. *Location: PL = Pore Lining, M = Matrix. pe: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. *Location: PL = Pore Lining, M = Matrix. Indicators: Indicators for Problematic Hydric Solls! Histosol (A1) Polyvalue Below Surface (S9) (LRR R, MLRA 1499) Jack Histi (CA3) Loamy Moley Mneral (F1) Stratified Layers (A5) Depleted Matrix (F2) Depleted Matrix (F3) Depleted Matrix (F3) Sandy Micky Mineral (F1) Redx Depressions (F8) Dark Surface (S7) (LRR R, MLRA 149B) Vest Spodic (TA6) (MLRA 144, 145, 149B) Sandy Micky Mineral (S1) Redx Depressions (F8) Dark Surface (S7) Red R Antrika (F2) Dark Surface (S7) Red R Antrika (F2) Dark Surface (S7) Redx R Antrika (F2) Dark Surface (S7) Redx R Antrika (F2) Dark Surface (S7) Rem	4 - 8	10YR 3/1	80	10YR 4/6	20	С	М	Gravell	y Sandy Loam	
per: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. *Location: PL = Pore Lining, M = Matrix. Indicators: Indicators for Problematic Hydric Soils? Histic Eopledon (A2) — Thin Dark Strafec (S3) (LRR R, MLRA 1499) Black Hists: (A3) — Loamy Mucky Mineral (F1) (LRR K, L) Pydrogen Sulfide (A4) — Depleted Matrix (F2) Stratified Layers (A5) — Depleted Dark Surface (F7) Sandy Mucky Mineral (S1) — Redox Dark Surface (F7) Sandy Mucky Mineral (S1) — Depleted Dark Surface (F7) Sandy Mucky Mineral (S1) — Redox Depressions (F8) Sandy Redox (S5) — Berlet Matrix (S4) Dark Surface (S1) (LRR K, L) — Nemacks Surface (T12) Matrix (S6) — Redox Present, unless disturbed or problematic. strictive Layer (f observed): _ Type: Type: _ Rock Pupti (inches): 8 marks: Matrix Soil Present? very Shallow observed.					·					
pe: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. *Location: PL = Pore Lining, M = Matrix. Indicators: Indicators for Problematic Hydric Soils? Histos (A1) Polyvalue Below Surface (S3; (LRR R, MLRA 1498)) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) Stratfied Layers (A5) Depleted Matrix (F2) Depleted Matrix (F2) Dark Surface (S3) (LRR K, L) Stratfied Layers (A5) Depleted Matrix (F2) Depleted Matrix (F3) Depleted Matrix (F2) Sandy Mucky Mineral (F1) Redox Depressions (F8) Sandy Mucky Mineral (S1) Redox Depressions (F8) Dark Surface (S7) (LRR K, L) Network S9 (LRR K, L) Dark Surface (S1) (LRR K, L) Polyted Matrix (S4) Dark Surface (S1) (LRR K, L) Redox Depressions (F8) Dark Surface (S1) (LRR K, L) Redox Depressions (F8) Dark Surface (S1) (LRR K, L) Redox Depressions (F8) Dark Surface (S1) (LRR K, L) Redox Depressions (F8) Dark Surface (S1) (LRR K, L, R) Dark Surface (S1) (LR K, L					—					
pe: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. *Location: PL = Pore Lining, M = Matrix. indicators for Problematic Hydric Solls? Histsce [J(1) Polyvalue Below Surface (S8) (LRR R, MLRA 1499) Histsce [J(1) Polyvalue Below Surface (S9) (LRR R, MLRA 1499) Histsce [J(1) Coast Prairie Redox (A16) (LRR K, L R) Hydrogen Suffide (A4) Loamy Gleyed Matrix (F2) Depleted Blew Dark Surface (F3) Depleted Matrix (F3) Depleted Blew Dark Surface (F1) Thin Dark Surface (F3) Stratified Layers (A5) Depleted Dark Surface (F7) Thick Dark Surface (S1) Redox Depressions (F8) Sandy Micky Mineral (S1) Redox Depressions (F8) Sandy Micky Mireral (S1) Redox Depressions (F8) Dark Surface (S7) (LRR R, MLRA 1498) Wers Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 1498) Wers Shallow Dark Surface (TF12) Dark Surface (S7) Red Parent Material (F21) Yery Shallow Dark Surface (TF12) Urant (TF12) Dark Surface (S7) (LRR R, MLRA 1498) Wers Shallow Dark Surface (TF12) Dark Surface (S7) Red Parent Material (F21) Ypre: Rock Hydric Soll Present? Yes No										
pe: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. *Location: PL = Pore Lining, M = Matrix. Indicators Gr Polyalue Below Surface (SS) (LRR R, MLRA 149B) Indicators for Polyalue Below Surface (SS) (LRR R, MLRA 149B) 2 cm Muck (A10) (LRR K, L, MLRA 149B) Black Histic (A3) Loamy Mucky Mineral (S1) (LRR K, L) 5 cm Mucky Pat or Peat (S3) (LRR K, L) Stratified Layers (A5) Depleted Matrix (F2) Dark Surface (F6) Thick Dark Surface (T1) Redox Nuface (F7) Thin Dark Surface (F8) Sandy Mucky Mineral (S1) Redox Depressions (F8) Polyalue Below Surface (F2) (LRR K, L) Sandy Mucky Mineral (S1) Redox Depressions (F8) Piedmont Flooplain Soils (F19) (MLRA 143B) Sandy Micky Mineral (S1) Redox Depressions (F8) Piedmont Flooplain Soils (F19) (MLRA 143B) Sandy Micky Mineral (S1) Redox Depressions (F8) Piedmont Flooplain Soils (F19) (MLRA 143B) Sandy Micky Mineral (S1) Redox Depressions (F8) Piedmont Flooplain Soils (F19) (MLRA 143B) Sandy Micky Mineral (S1) Red Parent Material (F21) Very Shallow Dark Surface (F12) Dark Surface (S7) (LRR R, MLRA 149B) Weit (Sa) Piedmont Flooplain Soils (F19) (MLRA 143B) Sandy Micky Mineral (S1) Red Parent Material (F21) Very Shallow Dark Surface (F12)										
pe: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. Location: PL = Pore Lining, M = Matrix. Indicators: Indicators for Problematic Hydric Soils? Histo Epledon (A2) Thin Dark Surface (S9) (LRR R, MLRA 1498) 2 cm Muck (A10) (LRR K, L R) Black Histic K(A) Loamy Gleyed Matrix (F2) 5 cm Mucky Beat or Peat (S3) (LRR K, L R) Stratified Jayers (A5) Depleted Matrix (F3) Dark Surface (S7) (LRR K, L) Depleted Below Dark Surface (A11) Redox Dark Surface (F7) Thin Dark Surface (F7) Sandy Mucky Mineral (S1) Redox Depressions (F8) Pieledmont Floodplain Solis (F19) (MLRA 1498) Sandy Rdox (S5)					·					
pp: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. *Location: PL = Pore Lining, M = Matrix. Indicators: Indicators: Histosol (A1)										
mpe: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. *Location: PL = Pore Lining, M = Matrix. Indicators is: Indicators for Problematic Hydric Solls*: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, MLRA 149B) 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histo Epipedon (A2) Thin Dark Surface (S8) (LRR K, NLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) 5 cm Mucky Peat or Peat (S3) (LRR K, L) Stratified Layers (A5) Depleted Matrix (F2) Dark Surface (S7) (LRR K, L) Depleted Work Surface (A11) Redox Dark Surface (F6) Thin Dark Surface (S9) (LRR K, L, R) Sandy Gleyed Matrix (S6) Below Below Surface (S7) Iron-Manganese Masses (F12) (LRR K, L, R) Sandy Redox (S5) Red Parent Material (F21) Other (Explain in Remarks) Stripped Matrix (S6) Red Parent Material (F21) Dark Surface (S7) (LRR K, L, R) Dark Surface (S7) (LRR R, MLRA 149B) Very Shallow Dark Surface (T12) Dark Surface (S7) (LRR K, L, R) Stripped Matrix (S6) Red Parent Material (F21) Dark Surface (S7) (LRR R, MLRA 149B) Second Problematic. Stripped Matrix (S6) Piedmont Floodplain Solis (F9) (Mutheral Surface (S7) (LRR K, L) Second Problematic. Second Problematic.					—					<u></u>
perc C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. *Location: PL = Pore Lining, M = Matrix. dric Soil Indicators: Indicators for Problematic Hydric Soils?: Histocol (A1) Polyvalue Below Surface (S8) (LRR R, MLRA 149B) 2 cm Muck (A10) (LRR K, L, MLRA 149B) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) 5 cm Mucky Peat of Peat (S3) (LRR K, L R) Polyvalue Below Surface (S7) Depleted Matrix (F2) 5 cm Mucky Peat of Peat (S3) (LRR K, L R) Depleted Below Dark Surface (A11) Redox Dark Surface (F7) Polyvalue Below Surface (S3) (LRR K, L R) Sandy Mucky Mineral (S1) Redox Depressions (F8) Piedmont Floodplain Solis (F19) (MLRA 149B) Sandy Rdox (S5) Redox (S5) Mesic Spoolic (TA6) (MLRA 144A, 145, 149B) Stripped Matrix (S6) Very Shallow Dark Surface (F7) (LRR K, L R) Dark Surface (S7) (LRR R, MLRA 149B) Very Shallow Dark Surface (T12) Dark Surface (S7) (LRR R, MLRA 149B) Very Shallow Dark Surface (T12) Dark Surface (S7) (LRR R, MLRA 149B) Very Shallow Dark Surface (T12) Dark Surface (S7) (LRR R, MLRA 149B) Very Shallow Dark Surface (T12) Dark Surface (S7) (LRR R, MLRA 149B) Very Shallow Dark Surface (T12) Dark Surface (S7) (LRR K, L R) Pietment Floodplain Solis (C14) </td <td></td> <td></td> <td></td> <td></td> <td>_</td> <td></td> <td></td> <td></td> <td></td> <td></td>					_					
dric Soil Indicators: Indicators for Problematic Hydric Soils*: Histosol (A1) Polyvalue Below Surface (S9) (LRR R, MLRA 149B) 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histic Epipedon (A2) Thin Dark Surface (S9) (LRR R, MLRA 149B) Coast Praire Redox (A16) (LRR K, L, R) Black Histic (X3) Loamy Mucky Mineral (F1) (LRR K, L) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Depleted Matrix (F2) Depleted Matrix (F3) Devloy Surface (S8) (LRR K, L) Depleted Below Dark Surface (A11) Redox Dark Surface (F7) Thin Dark Surface (F7) Sandy Mucky Mineral (S1) Redox Depressions (F8) Thin Dark Surface (F7) Sandy Gleyed Matrix (S6) Redox Depressions (F8) Mesic Spodic (T46) (MLRA 149B) Sandy Redox (S5) Redox Depressions (F8) Mesic Spodic (T46) (MLRA 149B) Stripped Matrix (S6) Very Shallow Dark Surface (T712) Red N4 Surface (T212) Dark Surface (S7) (LRR R, MLRA 149B) Very Shallow Dark Surface (T712) Other (Explain in Remarks) dicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Strictive Layer (f observed): No Type: Rock Hydric Soil Present? Yes _/ No No Depth (inches): 8 No No <td>pe: C = (</td> <td>Concentration, D =</td> <td>Depletio</td> <td>on, RM = Reduced</td> <td>l Matr</td> <td>ix, MS =</td> <td>Masked</td> <td>Sand Grains. ²l</td> <td>Location: PL = Pore Lini</td> <td>ing, M = Matrix.</td>	pe: C = (Concentration, D =	Depletio	on, RM = Reduced	l Matr	ix, MS =	Masked	Sand Grains. ² l	Location: PL = Pore Lini	ing, M = Matrix.
Histos Cpipedon (A2) Thin Dark Surface (S8) (LRR, M, LRA 149B) Can Muck (A10) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Loamy Gleyed Matrix (F2) Dark Surface (S7) (LRR K, L, C) Dark Surface (S8) (LRR K, L) Dark Surface (S8) (LRR K, L) Dark Surface (S8) (LRR K, L) Dark Surface (S1) (LRR K, L) Dark Surface (S1) Redox Dark Surface (F7) Thin Dark Surface (S1) (LRR K, L, R) Depleted Dark Surface (F7) Thin Dark Surface (S1) (LRR K, L, R) Depleted Matrix (S4) Redox Depressions (F8) Red Parent Material (F21) Red X L45, 149B) Core (TA6) (MLRA 149B) Core (F12) Dark Surface (S7) (LRR K, MLRA 149B) Other (Explain in Remarks) dictors of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. strictive Layer (if observed): Ype: Rock Hydric Soil Present? Yes No Depth (inches): 8 marks: No No	dric Soil	Indicators:							Indicators for Proble	ematic Hydric Soils ³ :
Indication of hydric soil was observed. Coast Praine Redox (A16) (LRR K, L, R) Som Wucky Mineral (F1) Coast Praine Redox (A16) (LRR K, L, R) Som Wucky Mineral (F1) Coast Praine Redox (A16) (LRR K, L, R) Som Wucky Mineral (F1) Coast Praine Redox (A16) (LRR K, L, R) Som Wucky Mineral (F1) Coast Praine Redox (A16) (LRR K, L, R) Depleted Below Dark Surface (A11) _ Depleted Dark Surface (F6) Thin Dark Surface (A12) Depleted Dark Surface (F7) Thin Dark Surface (S9) (LRR K, L, R) Sandy Mucky Mineral (S1)	Histoso	I (A1) ninedon (A2)		Polyvalue Be	low S	urface (S (Sq) (I PP	8) (LRR F	R, MLRA 149B)	2 cm Muck (A10)) (LRR K, L, MLRA 149B)
Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Dattor Peat Of Peat OS (LRR K, L) Stratified Layers (A5) Depleted Below Dark Surface (S1) (LRR K, L) Depleted Below Dark Surface (S2) (LRR K, L) Depleted Delow Dark Surface (A11) / Depleted Dark Surface (F7) Trom-Manganese Masses (F12) (LRR K, L) Sandy Mucky Mineral (S1) Redox Depressions (F8) Trom-Manganese Masses (F12) (LRR K, L) Sandy Rdex (S5) Red Parent Material (F21) Trom-Manganese Masses (F12) (LRR K, L) Sandy Rdex (S5) Red Parent Material (F21)	Black H	istic (A3)		Loamy Muck	y Min	eral (F1)	(LRR K, L	_)	Coast Prairie Re	dox (A16) (LRR K, L, R)
Stratified Layers (A5)	_ Hydrog	en Sulfide (A4)		Loamy Gleye	d Ma	trix (F2)		-	5 Cm Mucky Pea	at of Peat (53) (LKK K, L, K)
Depleted Below Dark Surface (A11) Redox Dark Surface (F6)	_ Stratifie	d Layers (A5)		Depleted Ma	itrix (F	3)			Polyvalue Below	
Thick Dark Surface (12) Depieted Dark Surface (F7) Iron-Manganese Masses (F12) (LRR K, L, R) Iron-Manganese Masses (F12) (LRR K, L, R) Sandy Gleyed Matrix (S4) Mesic Spodic (TA6) (MLRA 1449, 145, 1499) Mesic Spodic (TA6) (MLRA 1449, 145, 1499) Red Parent Material (F21) Very Shallow Dark Surface (F712) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) dicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic	Deplete	ed Below Dark Surf	ace (A11)_🗸 Redox Dark S	Surfac	e (F6)			Thin Dark Surfac	ce (S9) (I RR K. I)
Sandy Mucky Mineral (S1)Redox Depressions (F8)Piedmont Floodplain Soils (F19) (MLRA 1498)Mesic Spodic (TA6) (MLRA 144A, 145, 149B)Mesic Spodic (TA6) (MLRA 144B, 145, 149B)Mesic Spodic (TA6) (MLRA 144B)Mesic Spodic (T	Thick D	ark Surface (A12)		Depleted Da	rk Sur	face (F7)			Iron-Manganese	e Masses (F12) (LRR K. L. R)
Sandy Gleyed Matrix (S4)	Sandv M	Muckv Mineral (S1)		Redox Depre	ession	s (F8)				
		,				- ()			Piedmont Flood	plain Soils (F19) (MLRA 149B)
	_ Sandy (Gleyed Matrix (S4)				- (* -)			Piedmont Flood Mesic Spodic (TA	plain Soils (F19) (MLRA 149B) A6) (MLRA 144A, 145, 149B)
Dark Surface (S7) (LRR R, MLRA 149B)Other (Explain in Remarks) dicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. strictive Layer (if observed): 	_ Sandy (_ Sandy F	Gleyed Matrix (S4) Redox (S5)				- ()			Piedmont Flood Mesic Spodic (TA Red Parent Mate	plain Soils (F19) (MLRA 149B) A6) (MLRA 144A, 145, 149B) erial (F21)
dicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. strictive Layer (if observed): Type: Rock Depth (inches): 8 marks: sositive indication of hydric soil was observed.	_ Sandy (_ Sandy F _ Strippe	Gleyed Matrix (S4) Redox (S5) d Matrix (S6)				- (-)			Piedmont Flood Mesic Spodic (TA Red Parent Mate Very Shallow Da	plain Soils (F19) (MLRA 149B) A6) (MLRA 144A, 145, 149B) erial (F21) ark Surface (TF12)
strictive Layer (if observed): Type: Rock Depth (inches): 8 marks:	_ Sandy (_ Sandy F _ Strippe _ Dark Su	Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) (LRR R, I	VILRA 14	9B)		- (-)			Piedmont Flood Mesic Spodic (TA Red Parent Mate Very Shallow Da Other (Explain ir	plain Soils (F19) (MLRA 149B) A6) (MLRA 144A, 145, 149B) erial (F21) ırk Surface (TF12) n Remarks)
Type: Rock Depth (inches): 8 marks:	_ Sandy (_ Sandy F _ Strippe _ Dark Su	Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) (LRR R, I <u>of hydrophytic veg</u>	VLRA 14 getation	9B) and wetland hydr	<u>rology</u>	v must be	e presen	t, unless disturb	Piedmont Flood Mesic Spodic (TA Red Parent Mate Very Shallow Da Other (Explain ir ed or problematic.	plain Soils (F19) (MLRA 149B) A6) (MLRA 144A, 145, 149B) erial (F21) ırk Surface (TF12) n Remarks)
Depth (inches): 8 marks:	_ Sandy (_ Sandy F _ Strippe _ Dark Su ndicators	Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) (LRR R, I of hydrophytic veg Layer (if observed)	VLRA 14 <u>उ</u> etation :	9B) and wetland hydr	rology	<u>v must be</u>	e presen	t, unless disturb	Piedmont Flood Mesic Spodic (TA Red Parent Mate Very Shallow Da Other (Explain ir ed or problematic.	plain Soils (F19) (MLRA 149B) A6) (MLRA 144A, 145, 149B) erial (F21) ark Surface (TF12) n Remarks)
marks: positive indication of hydric soil was observed.	_ Sandy (_ Sandy F _ Strippe _ Dark Su dicators	Gleyed Matrix (S4) Redox (S5) d Matrix (S6) Jrface (S7) (LRR R, I of hydrophytic veg Layer (if observed) Type:	MLRA 14 setation	9B) and wetland hydr	rology	r must be	e presen Hydric	t, unless disturb Soil Present?	Piedmont Flood Mesic Spodic (TA Red Parent Mate Very Shallow Da Other (Explain ir ed or problematic.	plain Soils (F19) (MLRA 149B) A6) (MLRA 144A, 145, 149B) erial (F21) nrk Surface (TF12) n Remarks) Yes No
positive indication of hydric soil was observed.	_ Sandy (_ Sandy F _ Strippe _ Dark Su dicators strictive	Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) (LRR R, I of hydrophytic veg Layer (if observed) Type: Depth (inches):	MLRA 14 getation I:	9B) and wetland hydr Rock 8	rology	r must be	e presen Hydric	t, unless disturb Soil Present?	Piedmont Flood Mesic Spodic (TA Red Parent Mate Very Shallow Da Other (Explain ir ed or problematic.	plain Soils (F19) (MLRA 149B) A6) (MLRA 144A, 145, 149B) erial (F21) nrk Surface (TF12) n Remarks) Yes No
positive indication of hydric soil was observed.	Sandy (_Sandy F _Strippe _Dark Su dicators strictive marks:	Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) (LRR R, I <u>of hydrophytic veg</u> Layer (if observed) Type: Depth (inches):	MLRA 14 getation I: 	9B) and wetland hydr Rock 8	rology	v must be	e presen Hydric	t, unless disturb Soil Present?	Piedmont Flood Mesic Spodic (TA Red Parent Mate Very Shallow Da Other (Explain ir ed or problematic.	plain Soils (F19) (MLRA 149B) A6) (MLRA 144A, 145, 149B) erial (F21) Irk Surface (TF12) n Remarks) Yes No
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WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: High River	City/County: Florida, Montgomery	Sampling Date: 2017-July-17
Applicant/Owner: NextEra	State: New York	Sampling Point: W-ARS-03; UPL-1
Investigator(s): Andrew Steiner, Adeline Belles	neim Section, Township, Range:	
Landform (hillslope, terrace, etc.): Till plain	Local relief (concave, convex, none)	: None Slope (%): 1-10
Subregion (LRR or MLRA): LRR L	Lat: 42.9011736 Long	: -74.1321102 Datum: WGS84
Soil Map Unit Name: Lansing silt loam, 8 to 15	percent slopes (LaC)	NWI classification:
Are climatic/hydrologic conditions on the site typ	cal for this time of year? Yes 🖌 No (If r	io, explain in Remarks.)
Are Vegetation, Soil, or Hydrolog	/ significantly disturbed? Are "Normal Circum	stances" present? Yes 🟒 No
Are Vegetation, Soil, or Hydrolog	/ naturally problematic? (If needed, explain a	ny answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes No 🟒		
Hydric Soil Present?	Yes No 🟒	Is the Sampled Area within a Wetland?	Yes No 🟒
Wetland Hydrology Present?	Yes No	If yes, optional Wetland Site ID:	
Remarks: (Explain alternative procedures her	e or in a separate report)	
TRC covertype is UPL. Area is upland, not all t	three wetland parameter	s are present. active hay field	

Wetland Hydrology Indicators:		
Primary Indicators (minimum of one is	required; check all that apply)	Secondary Indicators (minimum of two required)
Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2)	 Water-Stained Leaves (B9) Aquatic Fauna (B13) Marl Deposits (B15) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Roots (C3) 	 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)
Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery Sparsely Vegetated Concave Surface	 Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Thin Muck Surface (C7) (B7) Other (Explain in Remarks) (B8) 	 Stunted or Stressed Plants (D1) Geomorphic Position (D2) Shallow Aquitard (D3) Microtopographic Relief (D4) FAC-Neutral Test (D5)
Field Observations:		
Surface Water Present? Ye Water Table Present? Ye Saturation Present? Ye	s No ✓ Depth (inches): s No ✓ Depth (inches): s No ✓ Depth (inches):	Wetland Hydrology Present? Yes No
(includes capillary fringe)		-
Describe Recorded Data (stream gauge	, monitoring well, aerial photos, previous inspections), if	available:
Remarks: No positive indication of wetland hydro	logy was observed.	

Sampling Point: W-ARS-03; UPL-1

Tree Stratum (Plot size: 30 ft)	Absolute	Dominant	Indicator	Dominance Test work	sheet:		
	% Cover	Species?	Status	Number of Dominant	Species That	0	(A)
1				Are OBL, FACW, or FAC			
2				Total Number of Dom	inant Species	2	(B)
3				Across All Strata:	Charling That		
4						0	(A/B)
5				Prevalence Index work			
6				Total % Cove	r of	Multiply	Bv:
7				OBL species	<u>0</u>	<u>v 1 –</u>	<u>by.</u> 0
	0	= Total Cove	er	EACW species		× 2 -	0
Sapling/Shrub Stratum (Plot size: <u>15 ft</u>)		-		EAC species	0	×2- ×2-	0
1.				FAC species	100	x 5 -	0
2.				- FACU Species	100	x 4 =	400
3.		·		- UPL species	0	x 5 =	0
4.		· ·			100	(A)	400 (B)
5.				Prevalence l	ndex = B/A =	4	
6				Hydrophytic Vegetatio	on Indicators:		
7		· ·		1- Rapid Test for	Hydrophytic \	/egetatior	ו
···		= Total Cov	≏r	2 - Dominance Te	est is > 50%		
Horb Stratum (Plot size: 5 ft)		-		3 - Prevalence In	dex is $\leq 3.0^{1}$		
1 Poa pratensis	60	Ves	FACU	4 - Morphologica	I Adaptations	¹ (Provide	supporting
2 Potentilla simpley		Voc	FACU	- data in Remarks or on	i a separate sh	neet)	
2. Lotus corpiculatus			EACU	Problematic Hyd	rophytic Vege	tation ¹ (E:	xplain)
S. Lotus conniculatus			FACU	- ¹ Indicators of hydric s	oil and wetlan	d hydrolo	gy must be
4. Phieum pratense		INU	FACU	present, unless distur	bed or proble	matic	
5		<u> </u>		Definitions of Vegetati	ion Strata:		
6				Tree – Woody plants 3	in. (7.6 cm) oi	r more in	diameter at
/		<u> </u>		breast height (DBH), r	egardless of h	eight.	
8.				Sapling/snrub - wood	ly plants less t	nan 3 in. i	DBH and
9				Horb All borbacoous		plante ro	gardloss of
10				size and woody plant	s less than 3.2	8 ft tall	gal diess of
11		·		Woody vines - All woo	dy vines great	ter than 3	28 ft in
12				height.	ay vines grea		.2010111
	100	= Total Cove	er	Lludrophutic Vogetati	on Drocont?		
Woody Vine Stratum (Plot size: <u>30 ft</u>)				nyuropnyur vegetau	on Fresents	ies i	NO <u>/</u>
1				-			
2				_			
3				_			
4				_			
	0	= Total Cove	er				
Remarks: (Include photo numbers here or on a se	parate sheet.)						
······	,						
Active agricultural field							

-10 10YR 4/3 100	inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture		Remarks
bit b) - 10	10YR 4/3	100					Silt Loam	ı	
action	· ·		<u> </u>		· —					
we: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. *Location: PL = Pore Lining, M = Matrix. Indicators: Indicators for Problematic Hydric Solis? Histosol (A1) Polyvalue Below Surface (S8) (LRR R, MLRA 149B) Histosol (A2) Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) Hydrogen Sulfide (A4) Domy Gleyed Matrix (F2) Strattled Layers (A5) Depleted Mark Surface (F6) Sandy Micky Mineral (S1) Redox Dark Surface (F7) Sandy Micky Mineral (S1) Redox Dark Surface (F7) Sandy Gleyed Matrix (S4) Depleted Dark Surface (F7) Sandy Micky Mineral (S6)					· <u> </u>					
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ve: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. ?Location: PL = Pore Lining, M = Matrix. ric Soil Indicators: Indicators for Problematic Hydric Soils ³ : Histosol (A1) Polyvalue Below Surface (S8) (LRR R, MLRA 149B) 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histic Epipedon (A2) Thin Dark Surface (S9) (LRR R, MLRA 149B) 2 cm Muck (A10) (LRR K, L, R A 149B) Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Dark Surface (S7) (LRR K, L) Stratified Layers (A5) Depleted Matrix (F3) Polyvalue Below Surface (S9) (LRR K, L) Depleted Below Dark Surface (A11) Redox Dark Surface (F7) Thin Dark Surface (S9) (LRR K, L) Sandy Mucky Mineral (S1) Redox Depressions (F8) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Redox (S5) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Stripped Matrix (S6) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) icators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. trictive Layer (if observed): To No Yes No No										
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Instruction	ric Soil I	ndicators:		Debasius Bal		urfaca (C		DA 140D)	Indicators for	Problematic Hydric Soils ³ :
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Stratified Layers (A5)	Hydroge	n Sulfide (A4)		Loamy Gleye	d Ma	trix (F2)	. , ,		5 cm Muck	(LRR K, L, R)
Depleted Below Dark Surface (A11) Redox Dark Surface (F6) Follywalde Below Surface (S3) (LRR K, L) Thick Dark Surface (A12) Depleted Dark Surface (F7) Thin Dark Surface (S9) (LRR K, L) Sandy Mucky Mineral (S1) Redox Depressions (F8) Iron-Manganese Masses (F12) (LRR K, L, R) Sandy Gleyed Matrix (S4) Nesic Spodic (TA6) (MLRA 1449B) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) licators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. trictive Layer (if observed): No Type: Rock Depth (inches): 10	Stratified	d Layers (A5)		Depleted Mat	trix (F3)			Dark Suria	Ce (S/) (LRR K, L)
Thick Dark Surface (A12)	Depleted	d Below Dark Surfa	ce (A11)	Redox Dark S	urfa	ce (F6)			Folyvalue I	
Sandy Mucky Mineral (S1)	Thick Da	rk Surface (A12)		Depleted Dar	·k Su	rface (F7))			
Sandy Gleyed Matrix (S4)		• •		Depicted Dui			,		Iron Mang	
Sandy Redox (S5)	Sandy M	ucky Mineral (S1)		Redox Depres	ssior	ns (F8)			Iron-Mang	anese Masses (FT2) (LRR K, L, R)
Stripped Matrix (S6)	Sandy M Sandy G	ucky Mineral (S1) leyed Matrix (S4)		Redox Depres	ssior	ns (F8)	,		Iron-Mang Piedmont Masic Spor	anese Masses (F12) (LRR K, L, R) Floodplain Soils (F19) (MLRA 149B) dic (TA6) (MLRA 144A, 145, 149B)
Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) licators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. trictive Layer (if observed):	Sandy M Sandy G Sandy R	lucky Mineral (S1) leyed Matrix (S4) edox (S5)		Redox Depres	ssior	ns (F8)	,		Iron-Mang Piedmont Mesic Spoo	anese Masses (F12) (LRR K, L, R) Floodplain Soils (F19) (MLRA 149B) dic (TA6) (MLRA 144A, 145, 149B) t Matorial (521)
licators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. trictive Layer (if observed): Type:	Sandy M Sandy G Sandy R Stripped	ucky Mineral (S1) leyed Matrix (S4) edox (S5) Matrix (S6)		Redox Depre	ssior	ns (F8)	,		Iron-Mang Piedmont Mesic Spoo Red Parent	anese Masses (F12) (LRR K, L, R) Floodplain Soils (F19) (MLRA 149B) dic (TA6) (MLRA 144A, 145, 149B) t Material (F21)
trictive Layer (if observed): Type:	Sandy N Sandy G Sandy R Sandy R Stripped Dark Su	ucky Mineral (S1) leyed Matrix (S4) edox (S5) Matrix (S6) face (S7) (LRR R, M	LRA 149	B)	ssior	is (F8)	,		Iron-Mang Piedmont Mesic Spoo Red Parent Very Shallo Other (Exp	anese Masses (F12) (LRR K, L, K) Floodplain Soils (F19) (MLRA 149B) dic (TA6) (MLRA 144A, 145, 149B) t Material (F21) ow Dark Surface (TF12) lain in Remarks)
Type: Rock Depth (inches): 10	Sandy N Sandy G Sandy R Stripped Dark Su dicators o	ucky Mineral (S1) leyed Matrix (S4) edox (S5) Matrix (S6) face (S7) (LRR R, M of hydrophytic vege	LRA 149	Redox Depre	olog	y must be	, e present, ur	less disturbe	Iron-Mang Piedmont Mesic Spoo Red Parent Very Shallo Other (Exp ed or problemati	anese Masses (F12) (LRR K, L, R) Floodplain Soils (F19) (MLRA 149B) dic (TA6) (MLRA 144A, 145, 149B) t Material (F21) ww Dark Surface (TF12) lain in Remarks) c.
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	Sandy W Sandy G Sandy R Strippec Dark Sur dicators o strictive L narks:	ucky Mineral (S1) leyed Matrix (S4) edox (S5) Matrix (S6) face (S7) (LRR R, M of hydrophytic vege ayer (if observed): Type: Depth (inches):	LRA 149	BB) Redox Depre Redox Depre Rock 10	<u>olog</u>	y must be	e present, ur Hydric Soil	less disturbe Present?	Iron-Mang Piedmont I Mesic Spoo Red Parent Very Shallo Other (Exp ed or problemati	anese Masses (F12) (LRR K, L, K) Floodplain Soils (F19) (MLRA 149B) dic (TA6) (MLRA 144A, 145, 149B) t Material (F21) bw Dark Surface (TF12) dain in Remarks) c.
	Sandy W Sandy G Sandy R Strippec Dark Sur dicators (strictive L narks:	ucky Mineral (S1) leyed Matrix (S4) edox (S5) Matrix (S6) face (S7) (LRR R, M of hydrophytic vege ayer (if observed): Type: Depth (inches):	LRA 145	Redox Depre	<u>olog</u>	y must b	e present, ur Hydric Soil	less disturbe Present?	Iron-Mang Piedmont I Mesic Spoo Red Parent Very Shallo Other (Exp ed or problemati	Anese Masses (F12) (LRR K, L, K) Floodplain Soils (F19) (MLRA 149B) dic (TA6) (MLRA 144A, 145, 149B) t Material (F21) bw Dark Surface (TF12) dain in Remarks) c.
	Sandy W Sandy G Sandy R Strippec Dark Sur dicators (trictive L narks:	ucky Mineral (S1) leyed Matrix (S4) edox (S5) Matrix (S6) face (S7) (LRR R, M of hydrophytic vege ayer (if observed): Type: Depth (inches):	LRA 149	Redox Depre	<u>olog</u>	y must b	e present, ur Hydric Soil	less disturbe Present?	Iron-Mang Piedmont I Mesic Spoo Red Parent Very Shallo Other (Exp ed or problemati	Anese Masses (F12) (LRR K, L, K) Floodplain Soils (F19) (MLRA 149B) dic (TA6) (MLRA 144A, 145, 149B) t Material (F21) ow Dark Surface (TF12) dain in Remarks) c.
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positive indication of hydric soils was observed.	Sandy W Sandy G Sandy R Strippec Dark Suu dicators o strictive L marks:	ucky Mineral (S1) leyed Matrix (S4) edox (S5) Matrix (S6) face (S7) (LRR R, M of hydrophytic vege ayer (if observed): Type: Depth (inches):	tation a	Redox Depre	<u>rolog</u>	y must be	e present, ur Hydric Soil	less disturbe Present?	Iron-Mang Piedmont I Mesic Spoo Red Parent Very Shallo Other (Exp ed or problemati Yes	anese Masses (F12) (LRR K, L, K) Floodplain Soils (F19) (MLRA 149B dic (TA6) (MLRA 144A, 145, 149B) t Material (F21) ow Dark Surface (TF12) lain in Remarks) c.



WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: High River	City/County:Florida, Montgo	mery County	Sampling Date: 20	17-July-17
Applicant/Owner: NextEra		State: New York	Sampling Point: W-A	RS-04; PUB-1
Investigator(s): Andrew Steiner, Adeline Belles	neim Sec	tion, Township, Range:		
Landform (hillslope, terrace, etc.): Depression	n Local relief	(concave, convex, none):	Concave	Slope (%): 1-10
Subregion (LRR or MLRA): LRR L	Lat:	42.9020988 Long:	-74.1281985	Datum: WGS84
Soil Map Unit Name: Darien silt loam, 3 to 8 p	ercent slopes (DaB)		NWI classificatio	on: PUB
Are climatic/hydrologic conditions on the site typ	ical for this time of year?	Yes 🟒 No (If n	o, explain in Remarks.))
Are Vegetation, Soil, or Hydrolog	y significantly disturbed?	Are "Normal Circums	tances" present?	Yes 🟒 No
Are Vegetation, Soil, or Hydrolog	<pre>/ naturally problematic?</pre>	(If needed, explain ar	ny answers in Remarks	i.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes 🟒 No		
Hydric Soll Present?	Yes 🟒 No	is the Sampled Area within a Wetland?	Yes 🟒 No
Wetland Hydrology Present?	Yes 🟒 No	If yes, optional Wetland Site ID:	W-ARS-04
Remarks: (Explain alternative procedures he	re or in a separate report)	
TRC covertype is PUB. Area is wetland, all thi	ree wetland parameters a	re present. pond	

Wetland Hydrology Indicators:					
Primary Indicators (minimum of or	e is required; check all	<u>that apply)</u>		Secondary Indicators (minimum of	two required)
 ✓ Surface Water (A1) ✓ High Water Table (A2) ✓ Saturation (A3) Water Marks (B1) Sediment Deposits (B2) 	Water- Aquati Marl D Hydro, Oxidiz	Stained Leaves (B9) c Fauna (B13) veposits (B15) gen Sulfide Odor (C1) ed Rhizospheres on Living R	oots (C3)	 Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Ima 	gery (C9)
 Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Ima Sparsely Vegetated Concave Su 	Preser Recent Thin M agery (B7) Other rface (B8)	nce of Reduced Iron (C4) t Iron Reduction in Tilled Soi Iuck Surface (C7) (Explain in Remarks)	ls (C6)	 Stunted or Stressed Plants (D1) Geomorphic Position (D2) Shallow Aquitard (D3) Microtopographic Relief (D4) FAC-Neutral Test (D5) 	
Field Observations:					
Surface Water Present?	Yes 🟒 No	Depth (inches):	36		
Water Table Present?	Yes 🟒 No	Depth (inches):	0	- Wetland Hydrology Present?	Yes 🟒 No
Saturation Present?	Yes 🟒 No	Depth (inches):	0	-	
(includes capillary fringe)					
Describe Recorded Data (stream g	auge, monitoring well, a	erial photos, previous inspe	ctions), if	available:	
Remarks:					
A positive indication of wetland hyd	drology was observed (p	primary and secondary indic	ators wer	e present).	

Sampling Point: W-ARS-04; PUB-1

· · ·							
Tree Stratum (Plot size: <u>30 ft</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test works Number of Dominant S	n eet: pecies That	2	
1. Fraxinus pennsvlvanica	10	Yes	FACW	Are OBL, FACW, or FAC:		3	(A)
2. Crataegus crus-galli	10	Yes	FAC	Total Number of Domir	ant Species	5	(B)
3.				Across All Strata:			(0)
4.				Percent of Dominant Sp	pecies That	60	(A/B)
5.				Are OBL, FACW, or FAC:			
6.				Prevalence Index works	sheet:		
7.				Total % Cover	<u>of:</u>	Multiply	<u>By:</u>
	20	= Total Cov	er	- OBL species _	33	x 1 =	33
Sapling/Shrub Stratum (Plot size: 15 ft)		-		FACW species	16	x 2 =	32
1. Carva ovata	5	Yes	FACU	FAC species	10	x 3 =	30
2. Lonicera tatarica		Yes	FACU	- FACU species _	10	x 4 =	40
3				- UPL species	0	x 5 =	0
Δ				Column Totals	69	(A)	135 (B)
т				Prevalence In	dex = B/A =	2	
5				Hydrophytic Vegetation	Indicators:		
7				1- Rapid Test for H	اydrophytic \	/egetation	
/		- Total Cov	or	2 - Dominance Tes	st is >50%		
Harb Stratum (Blat size) Eft)	10		ei	3 - Prevalence Ind	ex is $\leq 3.0^1$		
<u>Herb Stratum</u> (Plot Size. <u>5 It</u>)	25	Voc	OB	4 - Morphological	Adaptations	¹ (Provide	supporting
Carex lurida		No		- data in Remarks or on a	a separate sh	neet)	
2. Later unua				Problematic Hydro	ophytic Vege	tation ¹ (Ex	plain)
3. Lythiuni Sancana				¹ Indicators of hydric so	il and wetlan	d hydrolog	gy must be
4. Bidens frondosa			FACW	present, unless disturb	ed or proble	matic	
		<u>N0</u>	FACW	Definitions of Vegetatio	n Strata:		
6. Leersia oryzoides	2	NO	OBL	Tree – Woody plants 3 i	n. (7.6 cm) oi	r more in o	diameter at
/				breast height (DBH), reg	gardless of h	eight.	
8.				Sapling/shrub - Woody	plants less t	han 3 in. L	OBH and
9					5.20 IL (I III	n lanta ray	tardlace of
10				size and woody plants	less than 3.2	plants, reg	gal uless of
11				Woody vines - All wood	ly vines grea	ter than 3	28 ft in
12				height.	ly vines grea	ter than 5.	2010111
	39	= Total Cov	er	Hydrophytic Vogotation	n Drocont2		
Woody Vine Stratum (Plot size: <u>30 ft</u>)					in Fresent:		10
1				-			
2				-			
3				-			
4				-			
	0	= Total Cov	er				
Remarks: (Include photo numbers here or on a separa	ate sheet.)			_			
A positive indication of hydrophytic vegetation was ob	served (>50)% of domin	ant species	indexed as OBL, FACW. o	r FAC).		
					,.		

(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ² Tex	cture	Remarks
<u> </u>								
		·			<u> </u>			
<u> </u>		· — ·						
<u> </u>						··		
						·		
		· ·						
/pe: C = Co	ncentration, D = D	epleti	on, RM = Reduce	d Mat	rix, MS =	Masked Sand Gra	ns. ² Locatio	on: PL = Pore Lining, M = Matrix.
dric Soil In	dicators:		Debaselue D				Indi	cators for Problematic Hydric Soils ³ :
Histic Enii	AT) nedon (A2)		Thin Dark Su	irface	surface (S (S9) (I RR	8) (LKK K, MILKA 14 2 R MI RA 149R)	1 9В)	2 cm Muck (A10) (LRR K, L, MLRA 149B)
_ Black Hist	tic (A3)		Loamy Mucl	ky Mir	neral (F1)	(LRR K, L)		Coast Prairie Redox (A16) (LRR K, L, R)
_ Hydroger	n Sulfide (A4)		Loamy Gleye	ed Ma	itrix (F2)			5 cm Mucky Pear of Pear (53) (LRR K, L, K) Dark Surface (57) (I PP K L)
_ Stratified	Layers (A5)		Depleted Ma	atrix (F3)			Polyvalue Below Surface (S8) (LRR K. L)
Deplated				Curfa	ce (F6)			
	Below Dark Surfac	ce (A1	1) Redox Dark	Juna				Thin Dark Surface (S9) (LRR K, L)
_ Thick Dar	Below Dark Surfac k Surface (A12)	ce (A1	1) Redox Dark Depleted Da	irk Su	rface (F7)			Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L, R)
_ Depleted _ Thick Dar _ Sandy Mu	Below Dark Surfac k Surface (A12) ucky Mineral (S1)	ce (A1	1) Redox Dark Depleted Da Redox Depr	ark Su essio	rface (F7) ns (F8)			Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B)
_ Depieted _ Thick Dar _ Sandy Mu _ Sandy Gle	Below Dark Surface k Surface (A12) ucky Mineral (S1) eyed Matrix (S4)	ce (A1	1) Redox Dark Depleted Da Redox Depr	ark Su essioi	rface (F7) ns (F8)		 	Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
_ Depieted _ Thick Dar _ Sandy Mu _ Sandy Gle _ Sandy Re	Below Dark Surface k Surface (A12) ucky Mineral (S1) eyed Matrix (S4) dox (S5)	ce (A1	1) Redox Dark Depleted Da Redox Depr	ark Su essio	rface (F7) ns (F8)		 	Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Red Parent Material (F21)
_ Depieted _ Thick Dar _ Sandy Mt _ Sandy Gle _ Sandy Re _ Stripped	Below Dark Surfac k Surface (A12) Joky Mineral (S1) eyed Matrix (S4) dox (S5) Matrix (S6)	ce (A1	1) Redox Dark Depleted Da Redox Depr	ark Su essio	rface (F7) 1s (F8)			Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Red Parent Material (F21) Very Shallow Dark Surface (TF12)
_ Depleted _ Thick Dar _ Sandy Mu _ Sandy Gle _ Sandy Re _ Stripped _ Dark Surf	Below Dark Surfac k Surface (A12) ucky Mineral (S1) eyed Matrix (S4) dox (S5) Matrix (S6) face (S7) (LRR R, M I	ce (A1	1) Redox Dark Depleted Da Redox Depr 19B)	ession	rface (F7) ns (F8)			Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Other (Explain in Remarks)
_ Sepieted _ Thick Dar _ Sandy Mu _ Sandy Gle _ Sandy Re _ Stripped _ Dark Surf	Below Dark Surfac k Surface (A12) ucky Mineral (S1) eyed Matrix (S4) dox (S5) Matrix (S6) Face (S7) (LRR R, M i f hydrophytic vege	LRA 14	1) Redox Dark Depleted Da Redox Depr 19B) and wetland hyc	ark Su ession	rface (F7) ns (F8) y must b	e present, unless o	 listurbed or p	Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) problematic.
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_ Depicted _ Thick Dar _ Sandy Mt _ Sandy Gle _ Sandy Re _ Stripped _ Dark Surf idicators of istrictive La	Below Dark Surfac k Surface (A12) ucky Mineral (S1) eyed Matrix (S4) dox (S5) Matrix (S6) face (S7) (LRR R, Mi f hydrophytic vege nyer (if observed): Type: Depth (inches):	LRA 14	1) Redox Dark Depleted Da Redox Depr I9B) and wetland hyco None	ark Su ession	y must b	e present, unless o Hydric Soil Prese	listurbed or p	Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) problematic.
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Jepieleu _ Thick Dar _ Sandy Mu _ Sandy Re _ Stripped _ Dark Surf <u>hdicators of</u> <u>istrictive La</u> <u>r</u> <u>p</u> <u>istrictive La</u> <u>r</u> <u>r</u> <u>r</u>	Below Dark Surfac k Surface (A12) ucky Mineral (S1) eyed Matrix (S4) dox (S5) Matrix (S6) face (S7) (LRR R, Mi <u>f hydrophytic vege</u> hyer (if observed): Type: Depth (inches):	LRA 14 tation	1) Redox Dark Depleted Da Redox Depr 49B) and wetland hyc None 	drolog 	y must b	e present, unless o Hydric Soil Prese umed to be hydric	 listurbed or p nt?	Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) problematic.



WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: High River	City/County: Florida, Montg	omery	Sampling Date: 20	17-July-17
Applicant/Owner: NextEra		State: New York	Sampling Point: W-A	RS-04; UPL-1
Investigator(s): Andrew Steiner, Adeline	Bellesheim Se	ction, Township, Range:		
Landform (hillslope, terrace, etc.): Hil	llslope Local relie	f (concave, convex, none):	None	Slope (%): 1-10
Subregion (LRR or MLRA): LRR L	Lat	42.9018919 Long	-74.1278674	Datum: WGS84
Soil Map Unit Name: Darien silt loam, 3	3 to 8 percent slopes (DaB)		NWI classificatio	n:
Are climatic/hydrologic conditions on the	site typical for this time of year?	Yes 🟒 No (If n	o, explain in Remarks.)	
Are Vegetation, Soil, or Hy	/drology significantly disturbed?	Are "Normal Circums	stances" present?	Yes 🟒 No
Are Vegetation, Soil, or Hy	/drology naturally problematic?	(If needed, explain a	ny answers in Remarks	.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes 🟒 No		
Hydric Soil Present?	Yes No 🟒	Is the Sampled Area within a Wetland?	Yes No 🟒
Wetland Hydrology Present?	Yes No _	If yes, optional Wetland Site ID:	
Remarks: (Explain alternative procedures here	re or in a separate report)		
TRC covertype is UPL. Area is upland, not all	three wetland parameters	s are present. between stream and wetland	

Wetland Hydrology Indicators:		
Primary Indicators (minimum of one	e is required; check all that apply)	Secondary Indicators (minimum of two required)
Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2)	 Water-Stained Leaves (B9) Aquatic Fauna (B13) Marl Deposits (B15) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Roots (C3) 	 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)
Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Ima Sparsely Vegetated Concave Sur	 Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Thin Muck Surface (C7) Other (Explain in Remarks) face (B8) 	 Stunted or Stressed Plants (D1) Geomorphic Position (D2) Shallow Aquitard (D3) Microtopographic Relief (D4) FAC-Neutral Test (D5)
Field Observations:		
Surface Water Present? Water Table Present?	Yes No Depth (inches): Yes No Depth (inches):	Wetland Hydrology Present? Yes No
Saturation Present?	Yes No Depth (inches):	-
(includes capillary fringe)		
Remarks:	uge, monitoring well, aerial photos, previous inspections), if	available:
No positive indication of wetland hy	drology was observed.	

Sampling Point: W-ARS-04; UPL-1

Tree Stratum (Plot size: <u>30 ft</u>)	Absolute	Dominant	Indicator	Dominance Test worksheet:		
	% Cover	species?	Status		3	(A)
1. Acer rubrum	80	Yes	FAC	Total Number of Dominant Species		
2.				Across All Strata:	3	(B)
3		. <u> </u>		Percent of Dominant Species That		
4				- Are OBL, FACW, or FAC:	100	(A/B)
5				Prevalence Index worksheet:		
6				- Total % Cover of:	Multiply	Bv:
7				- OBL species 0	x1=	0
	80	= Total Cove	er	FACW species 5	x 2 =	10
Sapling/Shrub Stratum (Plot size: <u>15 ft</u>)				FAC species 148	x 3 =	444
1. <i>Frangula alnus</i>	48	Yes	FAC	- FACU species 1	x 4 =	4
2. <u>Acer rubrum</u>	20	Yes	FAC	- UPI species 0	×5=	0
3. <i>Fraxinus pennsylvanica</i>	5	No	FACW	Column Totals	(A)	458 (B)
4. <i>Quercus rubra</i>	1	No	FACU		(A) _	436 (D)
5.				Prevalence index = B/A =	3	
6.				Hydrophytic Vegetation Indicators:		
7.		······		1- Rapid Test for Hydrophytic	√egetation	
	74	= Total Cove	er	∠_ 2 - Dominance Test is >50%		
Herb Stratum (Plot size: 5 ft)		_		\checkmark 3 - Prevalence Index is $\leq 3.0^{1}$		
1.				4 - Morphological Adaptations	¹ (Provide s	supporting
2				- data in Remarks or on a separate s	neet)	
				Problematic Hydrophytic Vege	tation ¹ (Ex	plain)
4		·		- Indicators of hydric soil and wetlar	id hydrolog	gy must be
т				present, unless disturbed of proble	matic	
S				Definitions of vegetation Strata:		
7		······· ·		Iree – woody plants 3 in. (7.6 cm) of broast beight (DBH), regardless of b	r more in c	diameter at
7				Capling (chrub Weedy plants loss of	Han 2 in F	Duand
o				greater than or equal to 3.28 ft (1 m	nan Sin. D Stall	DH anu
9		······································		-	nlants ror	ardless of
10				size, and woody plants less than 3.2	28 ft tall.	541 41633 01
11				Woody vines – All woody vines grea	ter than 3.	28 ft in
12		·		height.		201111
	0	= Total Cove	er	Hydrophytic Vogotation Procent?	Voc / N	
<u>Woody Vine Stratum</u> (Plot size: <u>30 ft</u>)				Tydrophytic vegetation rresents	165 <u>v</u> N	
1				-		
2				-		
3				-		
4				-		
	0	= Total Cove	er			
Remarks: (Include photo numbers here or on a separ	ate sheet.)					
No positive indication of hydrophytic vegetation was	observed (>	:50% of domi	nant speci	es indexed as FAC– or drier)		

0 - 8 10YR 3/4 100
pre: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. 2Location: PL = Pore Lining, M = Matrix. dric Soil Indicators: Indicators for Problematic Hydric Soils?: Histic Epipedon (A2) Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Stratified Layers (A5) Depleted Matrix (F2) Sandy Ridox (S5) Depleted Matrix (S6) Sandy Gleyed Matrix (S6) Depleted Matrix (S6) Dark Surface (S7) Piedmont Floodplain Soils (F19) (MLRA 1448) Sandy Ridox (S5) Red Parent Materiai (F21) Stripped Matrix (S6) Red Parent Materiai (F21) Dark Surface (S7) (LRR K, L1444A, 145, 149B) Very Shallow Dark Surface (F12) Other (Explain in Remarks) Other (Explain in Remarks)
pe: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. ² Location: PL = Pore Lining, M = Matrix. Indicators: Indicators for Problematic Hydric Soils ³ : Histos (A1) Polyvalue Below Surface (S8) (LRR R, MLRA 149B) Histic Spipedon (A2) Thin Dark Surface (S9) (LRR K, L) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) Stratified Layers (A5) Depleted Matrix (F2) Depleted Below Dark Surface (A11) Redox Dark Surface (F6) Thic Dark Surface (A12) Depleted Dark Surface (F7) Sandy Mucky Mineral (S1) Redox Depressions (F8) Sandy Redox (S5) Redox Depressions (F8) Stripped Matrix (S6)
De: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. ² Location: PL = Pore Lining, M = Matrix. Indicators: Indicators for Problematic Hydric Soils ² : Histosol (A1) Polyvalue Below Surface (S8) (LRR R, MLRA 149B) Histic Epipedon (A2) Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Depleted Below Dark Surface (A12) Depleted Matrix (F3) Depleted Below Dark Surface (A12) Depleted Dark Surface (F7) Sandy Mucky Mineral (S1) Redox Depressions (F8) Sandy Redox (S5) Redox Depressions (F8) Stripped Matrix (S6) Red Parent Material (F21) Very Shallow Dark Surface (S7) (LRR R, MLRA 149B) Red Parent Material (F21) Very Shallow Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks)
De: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. ² Location: PL = Pore Lining, M = Matrix. Iric Soil Indicators: Indicators for Problematic Hydric Soils ² : Histosol (A1) Polyvalue Below Surface (S8) (LRR R, MLRA 149B) Histic Epipedon (A2) Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Depleted Below Dark Surface (A11) Redox Dark Surface (F6) Thick Dark Surface (A12) Depleted Dark Surface (F7) Sandy Mucky Mineral (S1) Redox Depressions (F8) Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 144A, 145, 149 Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Wery Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks)
be: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. ² Location: PL = Pore Lining, M = Matrix. Indicators: Indicators for Problematic Hydric Soils ² : Histosol (A1)
be: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. ² Location: PL = Pore Lining, M = Matrix. Indicators: Indicators for Problematic Hydric Soils ³ : Histosol (A1) Polyvalue Below Surface (S8) (LRR R, MLRA 149B) Histic Epipedon (A2) Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Stratified Layers (A5) Depleted Matrix (F3) Depleted Below Dark Surface (A11) Redox Dark Surface (F6) Thic Dark Surface (A12) Depleted Dark Surface (F7) Sandy Mucky Mineral (S1) Redox Depressions (F8) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Red Parent Material (F21) Dark Surface (S7) (LRR R, MLRA 149B) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks)
be: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. ² Location: PL = Pore Lining, M = Matrix. ric Soil Indicators: Indicators for Problematic Hydric Soils ³ : Histosol (A1) Polyvalue Below Surface (S8) (LRR R, MLRA 149B) Histic Epipedon (A2) Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Stratified Layers (A5) Depleted Matrix (F3) Depleted Below Dark Surface (A11) Redox Dark Surface (F6) Thick Dark Surface (A12) Depleted Dark Surface (F7) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Sandy Redox (S5) Redox Depressions (F8) Stripped Matrix (S6) Red Parent Material (F21) Dark Surface (S7) (LRR R, MLRA 149B) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) Other (Explain in Remarks)
be: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. 2Location: PL = Pore Lining, M = Matrix. ric Soil Indicators: Indicators for Problematic Hydric Soils ³ : Histosol (A1) Polyvalue Below Surface (S8) (LRR R, MLRA 149B) Histosol (A2) Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Stratified Layers (A5) Depleted Matrix (F3) Depleted Below Dark Surface (A11) Redox Dark Surface (F6) Thin Dark Surface (F2) Depleted Dark Surface (F7) Sandy Mucky Mineral (S1) Redox Depressions (F8) Sandy Redox (S5) Sandy Redox (S5) Stripped Matrix (S6) Red Parent Material (F21) Dark Surface (S7) (LRR R, MLRA 149B) Matrix (S6) Red Parent Material (F21) Dark Surface (S7) (LRR R, MLRA 149B) Stripped Matrix (S6) Red Parent Material (F21) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks)
Indicators: Polyvalue Below Surface (S8) (LRR R, MLRA 149B) Histosol (A1) Polyvalue Below Surface (S8) (LRR R, MLRA 149B) Histosol (A2) Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Stratified Layers (A5) Depleted Matrix (F3) Depleted Below Dark Surface (A11) Redox Dark Surface (F6) Thin Dark Surface (F7) Thin Dark Surface (F7) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Red Parent Material (F21) Mesic Spodic (TA6) (MLRA 144A, 145, 149 Matrix (S6) Other (Explain in Remarks)
Histosol (A1)Polyvalue Below Surface (S8) (LRR K, MLRA 149B)Histosol (A1)Polyvalue Below Surface (S8) (LRR K, MLRA 149B)Histic Epipedon (A2)Thin Dark Surface (S9) (LRR R, MLRA 149B)Black Histic (A3)Loamy Mucky Mineral (F1) (LRR K, L)Hydrogen Sulfide (A4)Loamy Gleyed Matrix (F2)Stratified Layers (A5)Depleted Matrix (F3)Depleted Below Dark Surface (A11)Redox Dark Surface (F6)Thick Dark Surface (A12)Depleted Dark Surface (F7)Sandy Mucky Mineral (S1)Redox Depressions (F8)Sandy Gleyed Matrix (S4)Piedmont Floodplain Soils (F19) (MLRA 144A, 145, 149Sandy Redox (S5)Stripped Matrix (S6)Dark Surface (S7) (LRR R, MLRA 149B)Very Shallow Dark Surface (TF12)Dark Surface (S7) (LRR R, MLRA 149B)Other (Explain in Remarks)
Stratified Layers (A5)
Depleted Below Dark Surface (AT1)Redox Dark Surface (F6)
Sandy Mucky Mineral (S1) Redox Depressions (F8) Iron-Manganese Masses (F12) (LRR R, L I Sandy Gleyed Matrix (S4) Piedmont Floodplain Soils (F19) (MLRA 1.45, 149 Sandy Redox (S5) Mesic Spodic (TA6) (MLRA 144A, 145, 149 Stripped Matrix (S6) Red Parent Material (F21) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks)
Sandy Gleyed Matrix (S4)Mesic Spodic (TA6) (MLRA 144A, 145, 149Sandy Redox (S5)Red Parent Material (F21)Stripped Matrix (S6)Very Shallow Dark Surface (TF12)Dark Surface (S7) (LRR R, MLRA 149B)Other (Explain in Remarks)
Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks)
dicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.
strictive Layer (if observed):
Type: Roots Hydric Soil Present? Yes No _∠
Depth (inches): 8



WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: High River	City/County: Florida, Montg	gomery County	Sampling Date: 20	17-July-18
Applicant/Owner: NextEra		State: New York	Sampling Point: W-A	RS-05; PSS-1
Investigator(s): Andrew Steiner, Adeline Belle	sheim Se	ction, Township, Range:		
Landform (hillslope, terrace, etc.): Hillslop	e Local relie	ef (concave, convex, none):	None	Slope (%): 1-10
Subregion (LRR or MLRA): LRR L	Lat	t: 42.8913747 Long:	-74.1345552	Datum: WGS84
Soil Map Unit Name: Lansing silt loam, 8 to 7	5 percent slopes (LaC)		NWI classificatio	on:
Are climatic/hydrologic conditions on the site ty	pical for this time of year?	Yes 🟒 No (If n	o, explain in Remarks.)
Are Vegetation, Soil, or Hydrold	gy significantly disturbed?	Are "Normal Circums	stances" present?	Yes 🟒 No
Are regetation, Soll, Or Hydroid	gy naturally problematic:	(ii fielded, explain al	iy answers in Kennarks	··/

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes No		
Hydric Soil Present?	Yes 🟒 No	Is the Sampled Area within a Wetland?	Yes 🯒 No
Wetland Hydrology Present?	Yes 🟒 No	If yes, optional Wetland Site ID:	W-ARS-05
Remarks: (Explain alternative procedures h	ere or in a separate report)	
TRC covertype is PSS. Area is wetland, all th	ree wetland parameters a	re present. Ditches/drain tiles observed, stream 7 flo	ows through wetland

Wetland Hydrology Indicators:		
Primary Indicators (minimum of or	e is required; check all that apply)	Secondary Indicators (minimum of two required)
 Surface Water (A1) High Water Table (A2) ✓ Saturation (A3) Water Marks (B1) Sediment Deposits (B2) 	Water-Stained Leaves (B9) Aquatic Fauna (B13) Marl Deposits (B15) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Roots (C3)	 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)
 Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Ima Sparsely Vegetated Concave Su 	 Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Thin Muck Surface (C7) Other (Explain in Remarks) 	 Stunted or Stressed Plants (D1) Geomorphic Position (D2) Shallow Aquitard (D3) Microtopographic Relief (D4) FAC-Neutral Test (D5)
Field Observations:		
Surface Water Present?	Yes No 🟒 Depth (inches):	
Water Table Present?	Yes No Depth (inches):	Wetland Hydrology Present? Yes _∠_ No
Saturation Present?	Yes 🖌 No Depth (inches): 0	-
(includes capillary fringe)		
Describe Recorded Data (stream g	auge, monitoring well, aerial photos, previous inspections), if	available:
Remarks: A positive indication of wetland hyd	drology was observed (primary and secondary indicators wer	e present).

Sampling Point: W-ARS-05; PSS-1

<u>.</u>	Abaaluta	Deminant	Indiantau	Dominanco Tost workshoot:		
Tree Stratum (Plot size: <u>30 ft</u>)	ADSOIULE	Species?	Status	Number of Dominant Species The	+	
	% COVE	species:	Status	Are OBL_EACW_or_EAC'	2	(A)
1				Total Number of Dominant Specie		
2				Across All Strata:	2	(B)
3				Percent of Dominant Species Tha		
4				Are OBL FACW or FAC:	100	(A/B)
5				Prevalence Index worksheet:		
6				Total % Cover of:	Multiply	Bv:
7				OBL species 60	<u>v 1 =</u>	<u>60</u>
	0	= Total Cove	er	EACW species 25		<u> </u>
Sapling/Shrub Stratum (Plot size: <u>15 ft</u>)		_				
1. Salix nigra	60	Yes	OBL	FAC species 0	_ x 3 = _	0
2.		······		FACU species 0	_ x 4 = _	0
3				UPL species 0	x 5 =	0
4				Column Totals 85	(A)	110 (B)
4				Prevalence Index = B/A	= <u>1.3</u>	
з				Hydrophytic Vegetation Indicator	:	
6				 1- Rapid Test for Hydrophyti 	c Vegetation	
7				2 - Dominance Test is >50%	0	
	60	= Total Cove	er	$\cancel{3}$ - Prevalence Index is < 3.0	1	
<u>Herb Stratum</u> (Plot size: <u>5 ft</u>)				4 - Morphological Adaptatio	ns ¹ (Provide	supporting
1. <i>Impatiens capensis</i>	25	Yes	FACW	data in Remarks or on a separate	sheet)	Supporting
2.				Problematic Hydrophytic Ve	petation ¹ (Ex	(nlain)
3.				1Indicators of hydric soil and wet	and hydrolo	av must be
4.				present unless disturbed or prob	lematic	gymusebe
5.				Definitions of Vegetation Strata:	lemate	
6				Tree Weedy plants 2 in (7.6 cm)	or moro in .	diameter at
7				hreast height (DBH), regardless of	boight	ulameter at
/				Conline (obruh - Moody plants los	THEIGHT.	
8				greater than or equal to 2.28 ft (1	m) tall	
9		······································		greater than of equal to 3.28 ft (1	iii) tali.	
10				Herb – All herbaceous (non-wood	y) plants, reg	gardiess of
11				Needuvines All weeduvines ar	.20 It lall.	20 ft in
12				woody vines – All woody vines gr	ater than 3.	.28 IUM
	25	= Total Cove	er	neight.		
<u>Woody Vine Stratum</u> (Plot size: <u>30 ft</u>)		_		Hydrophytic Vegetation Present?	Yes 🟒 N	lo
1.						
2.						
3.						
4						
⁻		- Total Cove	r			
	0		.1			
Remarks: (Include photo numbers here or on a separa	ite sheet.)					
A positive indication of hydrophytic vegetation was ob	served (>50	0% of domina	ant species	indexed as OBL, FACW, or FAC).		

incnes)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0 - 8	10YR 2/2	100					Silt Loam	
3 - 16	10YR 4/2	90	10YR 4/6	10	C	M	Silt Loam	
				_				
		·						
		·		_				
		·						
		·						
pe: C = C dric Soil	Indicators:	Depletic	on, RM = Reduced	Matr	rix, MS =	Masked S	and Grains. ² L	Indicators for Problematic Hydric Soils ³ :
Black Hi Hydroge Stratifie Deplete Thick Da	stic (A3) en Sulfide (A4) d Layers (A5) d Below Dark Surf ark Surface (A12)	ace (A11	Loamy Muck Loamy Gleye Depleted Ma) Redox Dark \$ Depleted Da	y Min d Ma trix (F Surfac rk Su	eral (F1) trix (F2) F3) ce (F6) face (F7)	(LRR K, L)		 Coast Prairie Redox (ATB) (LRR K, L, R) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Dark Surface (S7) (LRR K, L) Polyvalue Below Surface (S8) (LRR K, L) Thin Dark Surface (S9) (LRR K, L)
₋ Sandy N _ Sandy C _ Sandy F _ Stripped _ Dark Su	Aucky Mineral (S1) Sleyed Matrix (S4) Redox (S5) d Matrix (S6) Irface (S7) (LRR R, N	ЛLRA 14	Redox Depre	essior	is (F8)			 Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Other (Explain in Remarks)
_ Sandy N _ Sandy C _ Sandy F _ Stripped _ Dark Su dicators	Aucky Mineral (S1) Gleyed Matrix (S4) Aedox (S5) d Matrix (S6) Irface (S7) (LRR R, N of hydrophytic veg Layer (if observed)	/LRA 14 ;etation :	Redox Depre 9B) and wetland hydi	essior rology	y must be	e present	, unless disturbe	 Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Other (Explain in Remarks)
_ Sandy N _ Sandy C _ Sandy F _ Stripped _ Dark Su idicators :strictive I 	Aucky Mineral (S1) Gleyed Matrix (S4) Aedox (S5) d Matrix (S6) Irface (S7) (LRR R, I of hydrophytic veg Layer (if observed) Type: Depth (inches):	MLRA 14 getation :	Redox Depre 9B) and wetland hyd None	rology	s (F8) y must be	e present Hydric S	, unless disturbe Soil Present?	Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) d or problematic. Yes No


WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: High River	City/County: Florida, Mo	ontgomery County	Sampling Date: 20	17-July-18
Applicant/Owner: NextEra		State: New York	Sampling Point: W-A	RS-05; UPL-1
Investigator(s): Andrew Steiner, Adeli	ne Bellesheim	Section, Township, Range:		
Landform (hillslope, terrace, etc.):	Hillslope Local	relief (concave, convex, none):	None	Slope (%): 10-15
Subregion (LRR or MLRA): LRR L		Lat: 42.8913083 Long:	-74.1346818	Datum: WGS84
Soil Map Unit Name: Lansing silt loan	n, 8 to 15 percent slopes		NWI classificatio	n:
Are climatic/hydrologic conditions on th	e site typical for this time of year?	Yes 🟒 No (If n	o, explain in Remarks.)	
Are Vegetation, Soil, or I	Hydrology significantly disturbe	d? Are "Normal Circums	stances" present?	Yes 🟒 No
Are Vegetation, Soil, or I	Hydrology naturally problemation	c? (If needed, explain a	ny answers in Remarks	.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes No 🟒		
Hydric Soil Present?	Yes No 🟒	Is the Sampled Area within a Wetland?	Yes No 🟒
Wetland Hydrology Present?	Yes No	lf yes, optional Wetland Site ID:	
Remarks: (Explain alternative procedures her	e or in a separate report)	
TRC covertype is UPL. Area is upland, not all t	hree wetland parameter	s are present. trail near wetland	

Wetland Hydrology Indicators:		
Primary Indicators (minimum of one	<u>e is required; check all that apply)</u>	Secondary Indicators (minimum of two required)
Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2)	Water-Stained Leaves (B9) Aquatic Fauna (B13) Marl Deposits (B15) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Roots (C3)	 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)
Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Ima Sparsely Vegetated Concave Sur	 Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Thin Muck Surface (C7) Other (Explain in Remarks) face (B8) 	 Stunted or Stressed Plants (D1) Geomorphic Position (D2) Shallow Aquitard (D3) Microtopographic Relief (D4) FAC-Neutral Test (D5)
Field Observations:		
Surface Water Present? Water Table Present?	Yes No Depth (inches): Yes No Depth (inches):	Wetland Hydrology Present? Yes No
Saturation Present?	Yes No _	-
(includes capillary fringe)		
Remarks:	uge, monitoring well, aerial photos, previous inspections), if	available:
No positive indication of wetland hy	drology was observed.	

Sampling Point: W-ARS-05; UPL-1

Tree Stratum (Plot size: 30 ft)	Absolute	Dominant	Indicator	Dominance Test works	heet:		
	% Cover	Species?	Status	Number of Dominant S	pecies That	2	(A)
1				Are OBL, FACW, or FAC	:		
2.				Total Number of Domi	hant Species	4	(B)
3.				Across All Strata:			
4.				Percent of Dominant S	pecies That	50	(A/B)
5.				Are OBL, FACW, or FAC			
б.				Prevalence Index work	sheet:		
7.				Total % Cover	<u>of:</u>	Multiply	<u>By:</u>
		= Total Cove	r	- OBL species -	0	x 1 =	0
Sanling/Shruh Stratum (Plot size: 15 ft)		-		FACW species	3	x 2 =	6
1				FAC species	20	x 3 =	60
י. כ				FACU species	41	x 4 =	164
2.				- UPL species	0	x 5 =	0
з. 				Column Totals	64	(A)	230 (B)
4.				Prevalence Ir	ndex = B/A =	3.6	
5.				Hydrophytic Vegetation	n Indicators:		
6				1- Rapid Test for H	- - lydrophytic \	/egetatior	ו
7				2 - Dominance Te	st is > 50%	0	
	0	= Total Cove	er	3 - Prevalence Inc	lex is $\leq 3.0^1$		
<u>Herb Stratum</u> (Plot size: <u>5 ft</u>)				4 - Morphological	Adaptations	¹ (Provide	supporting
1. <i>Solidago canadensis</i>	10	Yes	FACU	- data in Remarks or on	a separate sh	neet)	0
2. Euthamia graminifolia	10	Yes	FAC	Problematic Hydr	ophytic Vege	tation ¹ (E	xplain)
3. <i>Equisetum hyemale</i>	10	Yes	FAC	¹ Indicators of hydric so	il and wetlan	d hydrolc	gy must be
4. <i>Trifolium pratense</i>	10	Yes	FACU	present, unless disturb	ed or proble	matic	0,
5. <i>Erigeron annuus</i>	8	No	FACU	Definitions of Vegetation	on Strata:		
6. <i>Cirsium arvense</i>	8	No	FACU	Tree – Woody plants 3	in. (7.6 cm) oi	r more in	diameter at
7. Fragaria virginiana	5	No	FACU	breast height (DBH), re	gardless of h	eight.	
8. Eupatorium perfoliatum	3	No	FACW	Sapling/shrub - Woody	plants less t	han 3 in.	DBH and
9.				greater than or equal t	o 3.28 ft (1 m) tall.	
10.		·		Herb – All herbaceous	(non-woody)	plants, re	gardless of
11.				size, and woody plants	less than 3.2	8 ft tall.	
12.				Woody vines – All wood	dy vines grea	ter than 3	.28 ft in
	64	= Total Cove	er	height.			
Woody Vine Stratum (Plot size: 30 ft)				Hydrophytic Vegetatio	n Present? `	Yes I	No 🟒
1.							
2				=			
				-			
A				-			
···		- Total Cove	r	-			
	0		:1				
Remarks: (Include photo numbers here or on a se No positive indication of hydrophytic vegetation w	parate sheet.) vas observed (≥	50% of domi	nant speci	es indexed as FAC– or dri	er).		

02 10YR 2/2 100	(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ² Te	exture	Remarks
2 - 9 10YR 3/4 100	0 - 2	10YR 2/2	100				Sil	t Loam	
ype: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. ² Location: PL = Pore Lining, M = Matrix. Indicators: Indicators: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, MLRA 149B) Jeach Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) Stratified Layers (A5) Depleted Matrix (F2) Depleted Word Surface (S9) Depleted Matrix (F2) Stratified Layers (A5) Depleted Dark Surface (F7) Thick Dark Surface (A12) Depleted Dark Surface (F7) Sandy Mucky Mineral (S1) Redox Depressions (F8) Sandy Redox (S5) Red Parent Material (F21) Sardy Redox (S5) Red Parent Material (F21) Dark Surface (S7) (LRR K, LI A149B) Very Shallow Dark Surface (F12) Dark Surface (S7) Red Parent Material (F21) Sardy Gleged Matrix (S4) Red Parent Material (F21) Sardy Gleged Matrix (S4) Coard Praine Redox Surface (F72) Dark Surface (S7) (LRR K, LI A149B) Very Shallow Dark Surface (T12) Sardy Redox (S5) Red Parent Material (F21) Stripped Matrix (S4) Depleted Park Surface (S71) (LRR K, LI A144, 145, 1498) Mark Surface (S7) (LRR K,	2 - 9	10YR 3/4	100				Sil	t Loam	
ype: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. *Location: PL = Pore Lining, M = Matrix. ype: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. *Location: PL = Pore Lining, M = Matrix. yrdric Soil Indicators: Indicators for Problematic Hydric Soils*: Histos D(A1)									
ype: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. *Location: PL = Pore Lining, M = Matrix. indicators: Indicators for Problematic Hydric Soils*: Histos [A1] Polyvalue Below Surface (S9) (LRR R, MLRA 149B) 2 cm Muck (A10) (LRR K, L, MLRA 149B) Black Histic (A2) Thin Dark Surface (S9) (LRR R, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) 5 cm Muck Peat or Peat (S3) (LRR K, L, R) Lydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Dark Surface (S7) (LRR K, L, R) Stratified Layers (A5) Depleted Matrix (F2) Dark Surface (S9) (LRR K, L, R) Stratified Layers (A5) Depleted Dark Surface (F6) Thin Dark Surface (S9) (LRR K, L, R) Sandy Mucky Mineral (S1) Redox Depressions (F8) Polyvalue Below Dark Surface (S1) Sandy Gleyed Matrix (S6) Mesic Spodic (TA6) (MLRA 144B, 145, 149B) Sandy Redox (S5) Red Parent Material (F11) Stripped Matrix (S6) Very Shallow Dark Surface (F12) Dark Surface (S7) (LRR R, MLRA 149B) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) Other (Explain in Remarks) dicators of hydrophytic vegetation and wetland hydrology must be present? Yes					·				
ype: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. *Location: PL = Pore Lining, M = Matrix. indicators: indicators for Problematic Hydric Soils*: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, MLRA 149B) Histic Epipedon (A2) Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) Stratified Layers (A5) Depleted Matrix (F2) Depleted Below Dark Surface (A11) Redox Depressions (F8) Sandy Gleyed Matrix (S4) Depleted Dark Surface (F7) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Stripted Matrix (S5) Redox Depressions (F8) Stripted Matrix (S6) Red Parent Material (F21) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) idicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. strictive Layer (If Observed): Type: Type: Rock Depht (inches): 5 Marks: Soil Present?	<u> </u>		·		· —				
ype: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. *Location: PL = Pore Lining, M = Matrix. rdric Soil Indicators: Indicators for Problematic Hydric Soils*: Histic Spipedon (A2) Thin Dark Surface (S9) (LRR R, MLRA 149B) 2 cm Muck (A10) (LRR K, L, R) Black Histic (A3) Loamy Gleged Matrix (F2) - S cm Muck yPeat or Peat (S3) (LRR K, L, R) Stratified Layers (A5) Depleted Matrix (F2) - Dark Surface (S7) (LRR K, L, R) Stratified Layers (A5) Depleted Matrix (F2) - Dark Surface (S7) (LRR K, L, R) Sandy Gleyed Matrix (S4) - Depleted Dark Surface (F6) - Thin Dark Surface (S7) (LRR K, L, R) Sandy Gleyed Matrix (S4) - Redox Depressions (F8) - Polyvalue Below Surface (S1) (LRR K, L, R) Sandy Redox (S5) - Red Parent Material (F1) - Very Shallow Dark Surface (TF12) Strictive Layer (if observed): - S - Other (Explain in Remarks) idicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. - No	<u> </u>		·		· <u> </u>				
ype: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. ?Location: PL = Pore Lining, M = Matrix. dric Soil Indicators: Indicators for Problematic Hydric Soils ³ : Histosol (A1) Polyvalue Below Surface (S8) (LRR R, MLRA 149B) 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histosol (A2)			·		· —		·		
ype: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. *Location: PL = Pore Lining, M = Matrix. dric Soil Indicators: Indicators for Problematic Hydric Soils?: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, MLRA 149B) Biack Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) Stratified Layers (A5) Depleted Matrix (F3) Depleted Below Dark Surface (S7) Depleted Matrix (F3) Depleted Below Dark Surface (S1) Depleted Matrix (F3) Stratified Layers (A5) Depleted Matrix (F3) Depleted Below Dark Surface (S1) Depleted Matrix (F3) Sandy Mucky Mineral (S1) Redox Depressions (F8) Sandy Redox (S5) Depleted Attrix (S4) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Mesic Spodic (TA6) (MLRA 1449B) Dark Surface (S7) (LRR R, MLRA 149B) Very Shallow Dark Surface (TF12) Stripped Matrix (S6) Red Parent Material (F21) Stripped Matrix (S6) Piedmont Remarks) dicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. strictive Layer (f observed): Type: Type: Rock Depth (inches): 5									
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ype: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. *Location: PL = Pore Lining, M = Matrix. whick Soil Indicators: Indicators for Problematic Hydric Soils*: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, MLRA 149B) 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histic Epipedon (A2) Thin Dark Surface (S9) (LRR R, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Stratified Layers (A5) Depleted Matrix (F2) Dark Surface (S7) (LRR K, L) Stratified Layers (A1) Redox Dark Surface (F6) Thin Dark Surface (S9) (LRR K, L) Stratified Layers (A12) Depleted Matrix (F3) Polyvalue Below Surface (S9) (LRR K, L) Sandy Gleyed Matrix (S4) Poledow Matrix (S4) Piedmont Floodplain Soils (F19) (MLRA 149B) Stripped Matrix (S6) Metics Spodic (TA6) (MLRA 144A, 145, 149B) Red Parent Material (F21) Stripped Matrix (S6) Wery Shallow Dark Surface (T12) Other (Explain in Remarks) udicators of hydrophytic vegetation and wetland hydrology must be present; unless disturbed or problematic. No strippe: Rock Hydric Soil Present? Yes No Depth (inches): 5 marks:									
ype: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. 4. Jocation: PL = Pore Lining, M = Matrix. rdric Soil Indicators:									
uit Soin Indicators.	/pe: C = C Idric Coil I	oncentration, D =	Depletio	n, RM = Reduced	Mat	rix, MS =	Masked Sand Grain	is. ² Location: F	PL = Pore Lining, M = Matrix.
Instacts (A10)	Histosol	(A1)		Polyvalue Bei		Surface (S		Indicato 9B) -	ors for Problematic Hydric Solis»:
	Histic Fr	(AT) bipedon (A2)		Thin Dark Sur	rface	(S9) (I RR	R. MI RA 149B)	2 cn	n Muck (A10) (LRR K, L, MLRA 149B)
Hydrogen Sulfide (A4) Loany Gleyed Matrix (F2)	Black Hi	stic (A3)		Loamv Muck	√ Mir	neral (F1)	(LRR K. L)	Coa	st Prairie Redox (A16) (LRR K, L, R)
Stratified Layers (A5)	– Hydroge	en Sulfide (A4)		Loamy Gleve	d Ma	trix (F2)	(5 cn	n Mucky Peat or Peat (S3) (LRR K, L, R)
Depleted Below Dark Surface (A11) Redox Dark Surface (F6)	Stratified	d Layers (A5)		Depleted Ma ¹	trix (F3)		Darl	K Surface (S7) (LRR K, L)
	Depleter	d Below Dark Surfa	ace (A11)	 Redox Dark S	urfa	ce (F6)		Poly	Value Below Surface (S8) (LRR K, L)
_ Sandy Mucky Mineral (S1)Redox Depressions (F8) Iron-Manganese Masses (F12) (LRR K, L, K) _ Sandy Gleyed Matrix (S4) Piedmont Floodplain Soils (F19) (MLRA 149B) Mesic Spodic (TA6) (MLRA 144B) _ Sandy Redox (S5) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Red Parent Material (F21) _ Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) _ dicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. 								i nir	n Dark Sufface (S9) (LRR K, L)
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	_ Thick Da _ Sandy M _ Sandy G	ark Surface (A12) lucky Mineral (S1) ileyed Matrix (S4)		Depleted Dar Redox Depre	rk Su ssior	rface (F7) าร (F8)		Iron Piec	Manganese Masses (F12) (LRR K, L, R) dmont Floodplain Soils (F19) (MLRA 149B)
	_ Thick Da _ Sandy M _ Sandy G Sandy R	ark Surface (A12) lucky Mineral (S1) ileyed Matrix (S4) edox (S5)		Depleted Dar Redox Depre	rk Su ssior	rface (F7) าร (F8)		Iron Piec Mes	n-Manganese Masses (F12) (LRR K, L, R) dmont Floodplain Soils (F19) (MLRA 149B) sic Spodic (TA6) (MLRA 144A, 145, 149B)
Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Instrictive Layer (if observed): Type: Rock Depth (inches): 5	_ Thick Da _ Sandy M _ Sandy G _ Sandy R _ Stripped	ark Surface (A12) Jucky Mineral (S1) ileyed Matrix (S4) edox (S5)		Depleted Dar Redox Depre	rk Su ssior	rface (F7) าร (F8)		Iron Piec Mes Red	n-Manganese Masses (F12) (LRR K, L, R) dmont Floodplain Soils (F19) (MLRA 149B) sic Spodic (TA6) (MLRA 144A, 145, 149B) Parent Material (F21)
Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.	_ Thick Da _ Sandy M _ Sandy G _ Sandy R _ Stripped Dark Su	ark Surface (A12) Jucky Mineral (S1) ileyed Matrix (S4) edox (S5) I Matrix (S6) rface (S7) (LRR R, N	ILRA 149	Depleted Dar Redox Depre //B)	rk Su ssior	rface (F7) าร (F8)		Iron Piec Mes Red Very	n-Manganese Masses (F12) (LRR K, L, R) dmont Floodplain Soils (F19) (MLRA 149B) sic Spodic (TA6) (MLRA 144A, 145, 149B) Parent Material (F21) y Shallow Dark Surface (TF12)
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emarks:	_ Thick Da _ Sandy W _ Sandy G _ Sandy R _ Strippec _ Dark Sun ndicators o	ark Surface (A12) Jucky Mineral (S1) Jucky Mineral (S1) edox (S5) J Matrix (S6) rface (S7) (LRR R, M of hydrophytic veg .ayer (if observed): Type:	ILRA 149 etation a	Depleted Dar Redox Depre 3B) and wetland hydr	ssior	rface (F7) ns (F8) y must be	e present, unless di	Iron Piec Mes Red Very Oth sturbed or prob	h-Manganese Masses (F12) (LRR K, L, R) dmont Floodplain Soils (F19) (MLRA 149B) sic Spodic (TA6) (MLRA 144A, 145, 149B) Parent Material (F21) y Shallow Dark Surface (TF12) er (Explain in Remarks) plematic.
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	Thick Da Sandy M Sandy G Sandy R Strippec Dark Sun dicators of strictive L	ark Surface (A12) lucky Mineral (S1) ileyed Matrix (S4) edox (S5) I Matrix (S6) rface (S7) (LRR R, N of hydrophytic veg .ayer (if observed): Type: Depth (inches):	ILRA 149	Depleted Dar Redox Depre PB) and wetland hydr <u>Rock</u> 5	rk Su ssior rolog	rface (F7) ns (F8) <u>y must be</u>	e present, unless di Hydric Soil Preser	Iron Piec Mes Red Very Oth sturbed or prob	h-Manganese Masses (F12) (LRR K, L, R) dmont Floodplain Soils (F19) (MLRA 149B) sic Spodic (TA6) (MLRA 144A, 145, 149B) Parent Material (F21) y Shallow Dark Surface (TF12) er (Explain in Remarks) olematic.
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WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: High River	City/County: Florida, Montgomery		Sampling Date:	2017-July-18				
Applicant/Owner: NextEra	State: Nev	w York S	ampling Point:	W-ARS-06; PUB-1				
Investigator(s): Andrew Steiner, Adeline Belleshei	n Section, Township,	Range:						
Landform (hillslope, terrace, etc.): Depression	Local relief (concave, conv	/ex, none):	Concave	Slope (%): 1-10				
Subregion (LRR or MLRA): LRR L	Lat: 42.9141564	Long:	-74.1597782	Datum: WGS84				
Soil Map Unit Name: Palantine silt loam, 15 to 25	percent slopes (PaD)		NWI classific	ation:				
Are climatic/hydrologic conditions on the site typical for this time of year? Yes 🖌 No (If no, explain in Remarks.)								
Are Vegetation, Soil, or Hydrology _	significantly disturbed? Are "Norma	al Circumsta	ances" present?	Yes 🟒 No				
Are Vegetation, Soil, or Hydrology _	naturally problematic? (If needed,	explain any	answers in Rem	arks.)				

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes 🟒 No		
Hydric Soil Present?	Yes 🟒 No	Is the Sampled Area within a Wetland?	Yes 🟒 No _
Wetland Hydrology Present?	Yes 🟒 No	If yes, optional Wetland Site ID:	W-ARS-06
Remarks: (Explain alternative procedures he	re or in a separate report)	
TRC covertype is PUB. Area is wetland, all th	ree wetland parameters a	re present. pond	

Wetland Hydrology Indicators:				
Primary Indicators (minimum of on	e is required; check all t	<u>that apply)</u>		Secondary Indicators (minimum of two required)
 ✓ Surface Water (A1) ✓ High Water Table (A2) ✓ Saturation (A3) Water Marks (B1) Sediment Deposits (B2) 	Water- Aquati Marl D Hydrog Oxidize	Stained Leaves (B9) c Fauna (B13) eposits (B15) gen Sulfide Odor (C1) ed Rhizospheres on Living Re	pots (C3)	 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)
 Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Ima Sparsely Vegetated Concave Su 	 Stunted or Stressed Plants (D1) Geomorphic Position (D2) Shallow Aquitard (D3) Microtopographic Relief (D4) FAC-Neutral Test (D5) 			
Field Observations:				
Surface Water Present?	Yes 🟒 No	Depth (inches):	36	_
Water Table Present?	Yes 🟒 No	Depth (inches):	0	Wetland Hydrology Present? Yes 🟒 No
Saturation Present?	Yes 🟒 No	Depth (inches):	0	-
(includes capillary fringe)				-
Describe Recorded Data (stream ga	auge, monitoring well, a	erial photos, previous inspec	ctions), if	available:
Remarks:				
A positive indication of wetland hyd	drology was observed (p	primary and secondary indica	ators wer	e present).

Sampling Point: W-ARS-06; PUB-1

Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test works	sheet: Species That 	0	(A)
			Total Number of Dom	inant Species	0	(B)
			Across All Strata:			
				pecies That		(A/B)
			Prevelence Indexwer			
				sneet.	N.A. Jaha I. J	D. //
					Multiply	<u>ву:</u>
0	= Total Cover			0	x I =	0
)	-		FACW species	0	x 2 =	0
-			FAC species	0	x 3 =	0
			- FACU species	0	x 4 =	0
			— UPL species	0	x 5 =	0
			- Column Totals	0	(A)	0 (B)
			Prevalence I	ndex = B/A =		
			Hydrophytic Vegetatio	n Indicators:		
			1- Rapid Test for	Hydrophytic V	/egetation	
			2 - Dominance Te	est is > 50%		
0	= lotal Cover		3 - Prevalence In	dex is $\leq 3.0^1$		
			4 - Morphologica	l Adaptations	(Provide	supporting
			data in Remarks or on	a separate sh	neet)	
			Problematic Hyd	rophytic Vege	tation ¹ (Ex	plain)
			Indicators of hydric set	oil and wetlan	d hydrolog	gy must be
			present, unless distur	bed or problei	matic	
			Definitions of Vegetati	on Strata:		
			Tree – Woody plants 3	in. (7.6 cm) oi	r more in o	diameter at
			breast height (DBH), r	egardless of h	eight.	
			Sapling/shrub – Wood	y plants less t	han 3 in. D	OBH and
			greater than or equal	to 3.28 ft (1 m) tall.	
			Herb – All herbaceous	(non-woody)	plants, reg	gardless of
			size, and woody plants	s less than 3.2	8 ft tall.	
			Woody vines – All woo	dy vines great	ter than 3.	28 ft in
0	= Total Cover		height.			
0	-		Hydrophytic Vegetati	on Present?	/es 🟒 N	lo
			—			
			—			
			—			
	To to I Course					
		0 = Total Cover 0 = Total Cover 0 = Total Cover 0 = Total Cover 0 = Total Cover	0 = Total Cover 0 = Total Cover	Are OBL, FACW, or FAC Total Number of Dominant S Are OBL, FACW, or FAC Total Number of Dominant S Are OBL, FACW, or FAC Percent of Dominant S Are OBL, FACW, or FAC Prevalence Index work Total % Cover O Prevalence Index work Total % Cover OBL species FACW species FACU species UPL species Column Totals Prevalence In Hydrophytic Vegetation 1- Rapid Test for 2 - Dominance Te 3 - Prevalence In 4 - Morphologica data in Remarks or on	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: Percent of Dominant Species That Are OBL, FACW, or FAC: Prevalence Index worksheet: Total & Cover of: O = Total Cover FACW species O = Total Cover FACU species O = Total Cover Image: Species Image: Species O = Total Cover Image: Species Im	Are OBL, FACW, or FAC: 0 Total Number of Dominant Species 0 Are OBL, FACW, or FAC: 0 Percent of Dominant Species That 0 Are OBL, FACW, or FAC: 0 Prevalence Index worksheet: 0 Total % Cover of: Multiply 0 = Total Cover FAC species 0 x1 = FAC species 0 x3 = FAC species 0 x4 = UPL species 0 x5 = Column Totals 0 (A) Prevalence Index = B/A =

(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ² Tex	cture	Remarks
<u> </u>								
		·			<u> </u>			
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/pe: C = Co	ncentration, D = D	epleti	on, RM = Reduce	d Mat	rix, MS =	Masked Sand Gra	ns. ² Locatio	on: PL = Pore Lining, M = Matrix.
dric Soil In	dicators:		Debaselue D				Indi	cators for Problematic Hydric Soils ³ :
Histic Enii	AT) nedon (A2)		Thin Dark Su	irface	surface (S (S9) (I RR	8) (LKK K, MILKA 14 2 R MI RA 149R)	1 9В)	2 cm Muck (A10) (LRR K, L, MLRA 149B)
_ Black Hist	tic (A3)		Loamy Mucl	ky Mir	neral (F1)	(LRR K, L)		Coast Prairie Redox (A16) (LRR K, L, R)
_ Hydroger	n Sulfide (A4)		Loamy Gleye	ed Ma	itrix (F2)			5 cm Mucky Pear of Pear (53) (LRR K, L, K) Dark Surface (57) (I PP K L)
_ Stratified	Layers (A5)		Depleted Ma	atrix (F3)			Polyvalue Below Surface (S8) (LRR K. L)
Deplated				Curfa	ce (F6)			
	Below Dark Surfac	ce (A1	1) Redox Dark	Juna				Thin Dark Surface (S9) (LRR K, L)
_ Thick Dar	Below Dark Surfac k Surface (A12)	ce (A1	1) Redox Dark Depleted Da	irk Su	rface (F7)			Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L, R)
_ Depleted _ Thick Dar _ Sandy Mu	Below Dark Surfac k Surface (A12) ucky Mineral (S1)	ce (A1	1) Redox Dark Depleted Da Redox Depr	ark Su essio	rface (F7) ns (F8)			Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B)
_ Depieted _ Thick Dar _ Sandy Mu _ Sandy Gle	Below Dark Surface k Surface (A12) ucky Mineral (S1) eyed Matrix (S4)	ce (A1	1) Redox Dark Depleted Da Redox Depr	ark Su essioi	rface (F7) ns (F8)		 	Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
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_ Depieted _ Thick Dar _ Sandy Mt _ Sandy Gle _ Sandy Re _ Stripped	Below Dark Surfac k Surface (A12) Joky Mineral (S1) eyed Matrix (S4) dox (S5) Matrix (S6)	ce (A1	1) Redox Dark Depleted Da Redox Depr	ark Su essio	rface (F7) 1s (F8)		 	Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Red Parent Material (F21) Very Shallow Dark Surface (TF12)
_ Depleted _ Thick Dar _ Sandy Mu _ Sandy Gle _ Sandy Re _ Stripped _ Dark Surf	Below Dark Surfac k Surface (A12) ucky Mineral (S1) eyed Matrix (S4) dox (S5) Matrix (S6) face (S7) (LRR R, M I	ce (A1	1) Redox Dark Depleted Da Redox Depr 19B)	ession	rface (F7) ns (F8)			Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Other (Explain in Remarks)
_ Sepieted _ Thick Dar _ Sandy Mu _ Sandy Gle _ Sandy Re _ Stripped _ Dark Surf	Below Dark Surfac k Surface (A12) ucky Mineral (S1) eyed Matrix (S4) dox (S5) Matrix (S6) Face (S7) (LRR R, M i f hydrophytic vege	LRA 14	1) Redox Dark Depleted Da Redox Depr 19B) and wetland hyc	ark Su ession	rface (F7) ns (F8) y must b	e present, unless o	 listurbed or p	Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) problematic.
Sandy Mu Sandy Mu Sandy Gle Sandy Re Dark Surf Dark Surf	Below Dark Surfac k Surface (A12) ucky Mineral (S1) eyed Matrix (S4) dox (S5) Matrix (S6) face (S7) (LRR R, M f hydrophytic vege ayer (if observed):	LRA 14	1) Redox Dark Depleted Da Redox Depr 19B) and wetland hyc	ession	rface (F7) ns (F8) y must bi	e present, unless c	 listurbed or p	Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) problematic.
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WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: High River	City/County: Florida, Montg	gomery County	Sampling Date: 20	17-July-18
Applicant/Owner: NextEra		State: New York	Sampling Point: W-A	RS-06; UPL-1
Investigator(s): Andrew Steiner, Adeline Belleshei	m Se	ction, Township, Range:		
Landform (hillslope, terrace, etc.): Hilltop	Local relie	ef (concave, convex, none):	Convex	Slope (%): 1-10
Subregion (LRR or MLRA): LRR L	Lat	t: 42.889034 Long:	-74.1355202	Datum: WGS84
Soil Map Unit Name: Palatine silt loam, 15 to 25 p	ercent slopes (PaD)		NWI classificatio	on:
Are climatic/hydrologic conditions on the site typica	for this time of year?	Yes 🟒 No (If n	o, explain in Remarks.)
Are Vegetation, Soil, or Hydrology _	significantly disturbed?	Are "Normal Circums	stances" present?	Yes 🟒 No
Are Vegetation, Soil, or Hydrology _	naturally problematic?	(If needed, explain ar	ny answers in Remarks	5.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes No		
Hydric Soil Present?	Yes No 🟒	Is the Sampled Area within a Wetland?	Yes No 🟒
Wetland Hydrology Present?	Yes No	lf yes, optional Wetland Site ID:	
Remarks: (Explain alternative procedures her	e or in a separate report)	
TRC covertype is UPL. Area is upland, not all t	hree wetland parameter	s are present. thick shrubs	

Wetland Hydrology Indicators:		
Primary Indicators (minimum of one is	required; check all that apply)	Secondary Indicators (minimum of two required)
Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2)	 Water-Stained Leaves (B9) Aquatic Fauna (B13) Marl Deposits (B15) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Roots (C3) 	 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)
Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery Sparsely Vegetated Concave Surface	 Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Thin Muck Surface (C7) (B7) Other (Explain in Remarks) (B8) 	 Stunted or Stressed Plants (D1) Geomorphic Position (D2) Shallow Aquitard (D3) Microtopographic Relief (D4) FAC-Neutral Test (D5)
Field Observations:		
Surface Water Present? Ye Water Table Present? Ye Saturation Present? Ye	s No ✓ Depth (inches): s No ✓ Depth (inches): s No ✓ Depth (inches):	Wetland Hydrology Present? Yes No
(includes capillary fringe)		-
Describe Recorded Data (stream gauge	, monitoring well, aerial photos, previous inspections), if	available:
Remarks: No positive indication of wetland hydro	logy was observed.	

Sampling Point: W-ARS-06; UPL-1

Tree Church und (Dist since 20 ft)	Absolute	Dominant	Indicator	Dominance Test worksheet:		
<u>Iree Stratum</u> (Plot size: <u>30 ft</u>)	% Cover	Species?	Status	Number of Dominant Species Th	at 1	(A)
1.				Are OBL, FACW, or FAC:	· · · ·	(A)
2.				Total Number of Dominant Spec	es a	(P)
3				Across All Strata:		(В)
4				Percent of Dominant Species Tha	t ,,,,,	(A (D)
4				Are OBL, FACW, or FAC:		(A/B)
S				Prevalence Index worksheet:		
6				Total % Cover of:	Multiply I	<u>By:</u>
7				OBL species 0	x 1 =	0
	0	= Total Cov	er	FACW species 0	x 2 =	0
Sapling/Shrub Stratum (Plot size: <u>15 ft</u>)				FAC species 60		180
1. Zanthoxylum americanum	70	Yes	FACU	FACU species 100	- x0 -	400
2. Rosa multiflora	15	No	FACU			400
3.					_ x5= _	0
4.				Column lotais 160	(A)	580 (B)
5				Prevalence Index = B/A	= <u>3.6</u>	
S				Hydrophytic Vegetation Indicator	s:	
0				1- Rapid Test for Hydrophyt	c Vegetation	
/				2 - Dominance Test is > 50%		
	85	= Total Cov	er	3 - Prevalence Index is \leq 3.)1	
<u>Herb Stratum</u> (Plot size: <u>5 ft</u>)				4 - Morphological Adaptatio	ns ¹ (Provide :	supporting
1. <i>Cardamine impatiens</i>	60	Yes	FAC	- data in Remarks or on a separate	sheet)	0
2. <i>Solidago canadensis</i>	15	Yes	FACU	Problematic Hydrophytic Ve	getation ¹ (Ex	plain)
3				¹ Indicators of hydric soil and wet	and hydrolog	ev must be
4.				present, unless disturbed or pro	lematic	Sy must be
5.				Definitions of Vegetation Strata:		
6				Tree Woody plants 3 in (7.6 cm	or more in (diamotor at
7				breast height (DBH) regardless of	f hoight	alameter at
/				Sapling (shrub Woody plants lo	r than 2 in F	
o				greater than or equal to 3.28 ft (m) tall	biranu
9.				Herb All berbaceous (pop woo	hu) plants roc	tardloss of
10				size and woody plants less than	2 28 ft tall	gai uless of
11				Woody vines All woody vines a	optor than 3	28 ft in
12				height		201111
	75	= Total Cov	er			<u> </u>
Woody Vine Stratum (Plot size: <u>30 ft</u>)				Hydrophytic Vegetation Present	Yes N	lo 🔽
1.						
2.				-		
3.				-		
4				-		
		- Total Cov	or	-		
		- 10001 000	CI			
Remarks: (Include photo numbers here or on a separ No positive indication of hydrophytic vegetation was	ate sheet.) observed (≥	50% of dom	ninant specie	es indexed as FAC– or drier).		

Sampling Point: W-ARS-06; UPL-1

0 - 8 10YR 3/3 100	(incries)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture			R	emarks
3-16 10YR 3/4 100 Gravelly Silt Loam Gravelly Silt Loam Gravelly Silt Loam Pei C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. ² Location: PL = Pore Lining, M = Matrix. Indicators: Indicators for Problematic Hydric Soils? Histic Gainers: Indicators for Problematic Hydric Soils? Histic Gainers: Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) Stratified Layers (A5) Depleted Matrix (F2) Depleted Below Dark Surface (A11) Redox Depressions (F8) Sandy Mucky Mineral (S1) Redox Depressions (F8) Sandy Gleyed Matrix (S4) Grearent Material (F21)	0 - 8	10YR 3/3	100					Silt Loam				
pe: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. 2Location: PL = Pore Lining, M = Matrix. indicators: indicators for Problematic Hydric Soils? Histosol (A1)	8 - 16	10YR 3/4	100		_			Gravelly Silt Loa	am			
pe: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. *Location: PL = Pore Lining, M = Matrix. dric Soil Indicators: Indicators for Problematic Hydric Soils*: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, MLRA 149B) Histo (A2) Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) Stratified Layers (A5) Depleted Matrix (F2) Depleted Below Dark Surface (A11) Redox Dark Surface (F6) Thick Dark Surface (A11) Redox Depressions (F8) Sandy Mucky Mineral (S1) Bedox Depressions (F8) Sandy Gleyed Matrix (S4) Loamy Mucky Mineral (F1) Sandy Gleyed Matrix (S6) Peleted Dark Surface (F7) Stripped Matrix (S4) Loamy Cleptestons (F8) Sandy Redox (S5) Mesic Spodic (TA6) (MLRA 144B) Stripped Matrix (S6) West Spodic (TA6) (MLRA 144B) Dark Surface (S7) (LRR R, MLRA 149B) Very Shallow Dark Surface (TF12) Dark Surface (S7) Mesic Spodic (TA6) (MLRA 144B) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Very Shallow Dark Surface (TF12)												
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pe: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. ² Location: PL = Pore Lining, M = Matrix. Indicators: Indicators for Problematic Hydric Soils ³ : Histosol (A1) Polyvalue Below Surface (S8) (LRR R, MLRA 149B) 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histic Epipedon (A2) Thin Dark Surface (S9) (LRR R, MLRA 149B) 2 coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) S cm Mucky Peat or Peat (S3) (LRR K, L, R) Stratified Layers (A5) Depleted Matrix (F2) Dark Surface (S7) (LRR K, L) Stratified Layers (A5) Depleted Dark Surface (F6) Thin Dark Surface (S9) (LRR K, L, R) Sandy Mineral (S1) Redox Dark Surface (F7) Iron-Manganese Masses (F12) (LRR K, L, R) Sandy Gleyed Matrix (S6) Piedmont Floodplain Soils (F19) (MLRA 149B) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Stripped Matrix (S6) Wers Shallow Dark Surface (F72) Wers Shallow Dark Surface (F12) Vers Shallow Dark Surface (F12) Dark Surface (S5) Red Parent Material (F21) Vers Shallow Dark Surface (F12) Uvers Shallow Dark Surface (F12) Sandy Redox (S5) Mesic Spodic (TA6) (MLRA 1449B) Other (Explain in Remarks) Other (Explain in Remarks) dicators of hydrophytic vegetation and wetland hydrology must							·					
pe: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. ² Location: PL = Pore Lining, M = Matrix. dric Soil Indicators: Indicators for Problematic Hydric Soils*: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, MLRA 149B) 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histic Epipedon (A2) Thin Dark Surface (S9) (LRR R, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) S cm Mucky Peat or Peat (S3) (LRR K, L) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Dark Surface (S7) (LRR K, L) Stratified Layers (A5) Depleted Matrix (F3) Polyvalue Below Surface (S9) (LRR K, L) Depleted Below Dark Surface (A11) Redox Dark Surface (F7) Thin Dark Surface (S9) (LRR K, L, R) Sandy Mucky Mineral (S1) Redox Depressions (F8) Piedmont Floodplain Soils (F12) (MLRA 149B) Sandy Redox (S5) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) dicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. strictive Layer (if observed): Type: None Hydric Soil Present? Yes No Depth (inches): </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>·</td> <td></td> <td></td> <td></td> <td></td> <td></td>							·					
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Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2)	_ Black Hi	istic (A3)		Loamy Mucky	/ Min	ieral (F1)	(LRR K, L)	CC	m Mucky Pea	t or Pea	5) (LKK † (S3) (IRR KIR)
Stratified Layers (A5)	_ Hydroge	en Sulfide (A4)		Loamy Gleye	d Ma	trix (F2)		Da	ark Surface (S7	7) (LRR K	. L)	
Depleted Below Dark Surface (A11)	_ Stratifie	d Layers (A5)		Depleted Mat	trix (F	-3)		Pc	Iyvalue Below	/ Surface	e (S8) (LRR K, L)
Image Dark Sufface (K12)	_ Deplete Thick D:	d Below Dark Surf	ace (A11)	Redox Dark S	urfac k Sur	ce (F6) rface (F7)	Th	in Dark Surfa	ce (S9) (l	.RR K,	L)
	Sandy N	lucky Mineral (S1)		Redox Depres	ssion	is (F8))	Irc	on-Manganese	e Masse	s (F12)	(LRR K, L, R)
	Sandy G	Gleved Matrix (S4)						Pi	edmont Flood	plain So	ils (F19	9) (MLRA 149B)
Stripped Matrix (S6)		, , ,						M	esic Spodic (TA	46) (MLF	A 144	A, 145, 149B)
Dark Surface (S7) (LRR R, MLRA 149B)	Sandy R	Redox (S5)										
dicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. strictive Layer (if observed): Type:NoneHydric Soil Present? YesNo _✓ Depth (inches):	_ Sandy R _ Sandy R _ Stripped	Redox (S5) d Matrix (S6)						Re	ed Parent Mate	erial (F2	1)	12)
strictive Layer (if observed):	Sandy R Sandy R Stripped Dark Su	Redox (S5) d Matrix (S6) Irface (S7) (LRR R, N	MLRA 149	9B)				Re Ve Ve	ed Parent Mate ery Shallow Da cher (Explain ir	erial (F2 ark Surfa n Remar	1) ice (TF iks)	12)
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Depth (inches):	_ Sandy R _ Stripped _ Dark Su _ dicators	Redox (S5) d Matrix (S6) rface (S7) (LRR R, N of hydrophytic veg	MLRA 149 getation a	9B) and wetland hydr	ology	y must b	e present, unles	Re Ve Of s disturbed or pro	ed Parent Mate ry Shallow Da her (Explain ir oblematic.	erial (F2 ark Surfa n Remar	1) ice (TF iks)	12)
marks:	Sandy R Stripped Dark Su ndicators estrictive I	Redox (S5) d Matrix (S6) rface (S7) (LRR R, N of hydrophytic veg Layer (if observed) Type:	MLRA 149 getation a	9 B) and wetland hydr	ology	y must b	e present, unles	Re Ve Ol s disturbed or pro	ed Parent Mate ry Shallow Da her (Explain ir oblematic.	erial (F2 ark Surfa n Remar	1) ice (TF iks)	12)
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positive indication of hydric soils was observed.	sandy R Stripper Dark Su dicators strictive I marks:	Redox (S5) d Matrix (S6) rface (S7) (LRR R, N <u>of hydrophytic veg</u> Layer (if observed) Type: <u>Depth (inches):</u>	vic soils w	9 B) and wetland hydr None	ology	y must b	e present, unles	Re Ve Of s disturbed or pro	ed Parent Mate ry Shallow Da her (Explain ir oblematic.	Yes	1) cce (TF ks) _ No _	12) ✓
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positive indication of hydric soils was observed.	sandy R _Strippec _Dark Su ndicators estrictive I	Redox (S5) d Matrix (S6) rface (S7) (LRR R, N <u>of hydrophytic veg</u> Layer (if observed) Type: Depth (inches): indication of hydr	MLRA 149	9 B) and wetland hydr None	<u></u>	y must b	e present, unles	Re Ve Ot s disturbed or pro	ed Parent Mate ry Shallow Da her (Explain ir oblematic.	Yes	1) ce (TF ks) _ No _	12) ∡
positive indication of hydric soils was observed.	Sandy R Stripped Dark Sundicators estrictive I	Redox (S5) d Matrix (S6) irface (S7) (LRR R, N <u>of hydrophytic veg</u> Layer (if observed) Type: 	MLRA 149	9 B) and wetland hydr None	<u></u>	y must b	e present, unles	Re Ve Ot s disturbed or pro	ed Parent Mate	erial (F2 ırk Surfa n Remar Yes	1) cce (TF ks) _ No _	12) ✓
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positive indication of hydric soils was observed.	Sandy R Sandy R Stripped Dark Su ndicators estrictive I	Redox (S5) d Matrix (S6) irface (S7) (LRR R, N of hydrophytic veg L ayer (if observed) Type: Depth (inches):	MLRA 149	9 B) and wetland hydr None		y must b	e present, unles	Re Ve Of s disturbed or pro	ed Parent Mate	Yes	1) .ce (TF ks) _ No _	12) ∡
positive indication of hydric soils was observed.	Sandy R Sandy R Stripped Dark Su ndicators estrictive I	Redox (S5) d Matrix (S6) irface (S7) (LRR R, N of hydrophytic veg L ayer (if observed) Type: Depth (inches):	MLRA 149	9 B) and wetland hydr None		y must b	e present, unles	s disturbed or pro	ed Parent Mate	Yes	1) .ce (TF ks) _ No _	12) ✓



WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: High River	r	Ci	i ty/County: Florid	da, Montgc	mery		Sampling Date	: 2017-July-18
Applicant/Owner: Ne	extEra				State:	New York	Sampling Point:	W-ARS-07; PSS-1
Investigator(s): Andre	ew Steiner, Ad	eline Bellesheim		Sec	tion, Towns	ship, Range:		
Landform (hillslope, ter	race, etc.):	Depression		Local relief	(concave,	convex, none):	Concave	Slope (%): 1-10
Subregion (LRR or MLR/	A): LRR L			Lat:	42.887933	3 Long:	-74.1414448	Datum: WGS84
Soil Map Unit Name:	Lansing silt lo	am, 8 to 15 perce	ent slopes (LaC)				NWI classifi	ication:
Are climatic/hydrologic	conditions on	the site typical fo	or this time of yea	ar?	Yes 🖌	_ No (If n	o, explain in Rema	arks.)
Are Vegetation,	Soil,	or Hydrology	_ significantly dis	turbed?	Are "N	ormal Circums	tances" present?	Yes 🟒 No
Are Vegetation,	Soil,	or Hydrology	_ naturally proble	ematic?	(If nee	ded, explain ar	ny answers in Rem	narks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes 🖌 No		
Hydric Soil Present?	Yes 🟒 No	Is the Sampled Area within a Wetland?	Yes 🯒 No
Wetland Hydrology Present?	Yes 🟒 No	lf yes, optional Wetland Site ID:	W-ARS-07
Remarks: (Explain alternative procedures he	re or in a separate report)	
TRC covertype is PSS. Area is wetland, all thr	ee wetland parameters ar	re present. thick creek bottom	

Wetland Hydrology Indicators:					
Primary Indicators (minimum of on	e is required; check al	<u>ll that apply)</u>		Secondary Indicators (minimum of	<u>two required)</u>
Surface Water (A1) High Water Table (A2) ∕ Saturation (A3) Water Marks (B1) Sediment Deposits (B2)	Wate Aqua Marl Hydr Oxid	er-Stained Leaves (B9) atic Fauna (B13) Deposits (B15) ogen Sulfide Odor (C1) ized Rhizospheres on Living F	Roots (C3)	 Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imag 	gery (C9)
 Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Ima Sparsely Vegetated Concave Su 	Prese Rece Thin agery (B7) Othe rface (B8)	ence of Reduced Iron (C4) nt Iron Reduction in Tilled So Muck Surface (C7) r (Explain in Remarks)	ils (C6)	 Stunted or Stressed Plants (D1) Geomorphic Position (D2) Shallow Aquitard (D3) Microtopographic Relief (D4) FAC-Neutral Test (D5) 	
Field Observations:					
Surface Water Present?	Yes No 🟒	Depth (inches):			
Water Table Present?	Yes 🟒 No	Depth (inches):	6	Wetland Hydrology Present?	Yes 🟒 No
Saturation Present?	Yes 🟒 No	Depth (inches):	0		
(includes capillary fringe)					
Describe Recorded Data (stream ga	auge, monitoring well,	aerial photos, previous inspe	ections), if	available:	
Remarks:					
A positive indication of wetland hyd	drology was observed	(primary and secondary indi	cators wer	e present).	

Sampling Point: W-ARS-07; PSS-1

Tree Stratum (Plot size: 30 ft)	Absolute	Dominant	Indicator	Dominance Test workshee	et:		
(% Cover	Species?	Status	Number of Dominant Spe	cies That	2	(A)
1				Are OBL, FACW, or FAC:	•		
2.				Total Number of Dominar	າt Species	2	(B)
3.				Across All Strata:			
4.				Percent of Dominant Spec	cies That	100	(A/B)
5.				Are OBL, FACW, or FAC:			
6				 Prevalence Index workshe 	eet:		
7				- <u>Total % Cover of</u> :	±	Multiply E	<u>By:</u>
/		- Tatal Cau		- OBL species	75	x 1 =	75
	0	- 10tal COV	21	FACW species	95	x 2 =	190
Sapling/Shrub Stratum (Plot size:15 ft)				FAC species	0	x 3 =	0
1. <u>Salix nigra</u>	75	Yes	OBL	FACU species	0	x 4 =	0
2. Cornus amomum	10	No	FACW	- UPL species	0	x 5 =	0
3				Column Totals	170	(A)	265 (B)
4.				Provalence Inde	$= R/\Lambda =$	16	203 (0)
5.					<u></u>	1.0	
6.				Hydrophytic Vegetation In	idicators:		
7.				1- Rapid Test for Hyc	Jrophytic V	egetation	
	85	= Total Cove	۲	2 - Dominance Test i	s >50%		
Herb Stratum (Plot size: 5 ft)		-		3 - Prevalence Index	is ≤ 3.0 ¹		
1 Impatiens capensis	75	Voc		4 - Morphological Ad	laptations ¹	(Provide s	supporting
1. Impatiens capellais	10			- data in Remarks or on a s	eparate sh	eet)	
	10	110	FACW	Problematic Hydrop	hytic Veget	ation ¹ (Exp	olain)
3				¹ Indicators of hydric soil a	and wetland	d hydrolog	y must be
4				present, unless disturbed	or problen	natic	
5				Definitions of Vegetation	Strata:		
6				Tree – Woody plants 3 in.	(7.6 cm) or	more in d	liameter at
7				breast height (DBH), rega	rdless of he	eight.	
8.				Sapling/shrub - Woody pl	ants less th	han 3 in. D	BH and
9.				greater than or equal to 3	3.28 ft (1 m)) tall.	
10.				Herb – All herbaceous (no	on-woody) p	olants, reg	ardless of
11.				size, and woody plants les	ss than 3.28	8 ft tall.	
12				Woody vines - All woody	vines great	er than 3.2	28 ft in
12	0E	- Total Cov	or	height.			
Weed Vine Chrotum (Plat size) 20 ft	- 65		-1	Hydrophytic Vegetation P	Present? Y	′es 🖌 N	0
woody vine stratum (Plot size: <u>30 it</u>)				J J			
l				=			
2				-			
3				-			
4				_			
	0	= Total Cove	er				
Remarks: (Include photo numbers here or on a separat	e sheet.)						
A positive indication of hydrophytic vegetation was obs	erved (>50	J% of domin	ant species	indexed as OBL, FACW, or F	AC).		

	Color (moist)	%	Color (moist)	<u>%</u> Тур	e ¹ Loc ²	Textu	ıre	Remarks
) - 16	10YR 4/2	100	10YR 5/6	<u>10</u>		Fine Silt	Loam	
·		· ·					; ;	
·		· ·						
pe: C = C	oncentration, D =	Depletic	on, RM = Reduced	Matrix, M	S = Masked	Sand Grains. ² L	ocation: PL = Pore	e Lining, M = Matrix.
Histosol Histic Ep Black His Hydroge Stratified Depleted Thick Da Sandy M Sandy G Sandy R Stripped Dark Sun	(A1) ipedon (A2) stic (A3) in Sulfide (A4) d Layers (A5) d Below Dark Surf rk Surface (A12) lucky Mineral (S1) leyed Matrix (S4) edox (S5) Matrix (S6) rface (S7) (LRR R, N	эсе (А11 ИLRA 14	— Polyvalue Be Thin Dark Su Loamy Muck Loamy Gleye Depleted Ma Pepleted Dar Depleted Dar Redox Depresent Redox Depresent PB)	low Surfac rface (S9) (y Mineral (d Matrix (I trix (F3) Surface (F6 rk Surface ssions (F8	e (S8) (LRR R LRR R, MLRA F1) (LRR K, L -2) ;) (F7))	, MLRA 149B) (149B))	2 cm Muck (Coast Prairie 5 cm Mucky Dark Surfac Polyvalue Be Thin Dark Su Thin Dark Su Tron-Manga Piedmont Fl Mesic Spodi Red Parent Very Shallov Other (Expla	A10) (LRR K, L, MLRA 149B) e Redox (A16) (LRR K, L, R) Peat or Peat (S3) (LRR K, L, R) e (S7) (LRR K, L) elow Surface (S8) (LRR K, L) urface (S9) (LRR K, L) nese Masses (F12) (LRR K, L, R) oodplain Soils (F19) (MLRA 149B) c (TA6) (MLRA 144A, 145, 149B) Material (F21) v Dark Surface (TF12) ain in Remarks)
dicators	of hydrophytic veg	getation	and wetland hydi	ology mu	st be present	, unless disturbe	ed or problematic	
strictive L	ayer (if observed) -	:				- 1		
	Type:		None		Hydric	Soil Present?	Y	es No
marks:	Depth (inches):							



WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: High River	City/County: Florida, Montgo	mery	Sampling Date: 20	17-July-18
Applicant/Owner: NextEra		State: New York	Sampling Point: W-A	RS-07; UPL-1
Investigator(s): Andrew Steiner, Adeline Be	llesheim Sec	tion, Township, Range:		
Landform (hillslope, terrace, etc.): Hilltop	Local relief	(concave, convex, none)	Convex	Slope (%): 1-10
Subregion (LRR or MLRA): LRR L	Lat:	42.8880832 Long	-74.1414802	Datum: WGS84
Soil Map Unit Name: Lansing silt loam, 8 to	15 percent slopes (LaC)		NWI classificatio	on:
Are climatic/hydrologic conditions on the site	typical for this time of year?	Yes 🟒 No (If n	o, explain in Remarks.)
Are Vegetation, Soil, or Hydro	logy significantly disturbed?	Are "Normal Circums	stances" present?	Yes 🟒 No
Are Vegetation, Soil, or Hydro	logy naturally problematic?	(If needed, explain a	ny answers in Remarks	5.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes No 🟒							
Hydric Soil Present?	Yes No 🟒	Is the Sampled Area within a Wetland?	Yes No 🟒					
Wetland Hydrology Present?	Yes No	lf yes, optional Wetland Site ID:						
emarks: (Explain alternative procedures here or in a separate report)								
TRC covertype is UPL. Area is upland, not all	hree wetland parameter	s are present. 8foot goldenrod						

Wetland Hydrology Indicators:		
Primary Indicators (minimum of one	is required; check all that apply)	Secondary Indicators (minimum of two required)
Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2)	 Water-Stained Leaves (B9) Aquatic Fauna (B13) Marl Deposits (B15) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Roots (C3) 	 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)
 Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imag Sparsely Vegetated Concave Surf. 	 Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Thin Muck Surface (C7) Other (Explain in Remarks) ace (B8) 	 Stunted or Stressed Plants (D1) Geomorphic Position (D2) Shallow Aquitard (D3) Microtopographic Relief (D4) FAC-Neutral Test (D5)
Field Observations:		
Surface Water Present? Water Table Present? Saturation Present?	Yes No _ ✓ Depth (inches): Yes No _ ✓ Depth (inches): Yes No _ ✓ Depth (inches):	_
(includes capillary fringe)		
Describe Recorded Data (stream gau	ge, monitoring well, aerial photos, previous inspections), if	available:
No positive indication of wetland hyd	frology was observed.	

Sampling Point: W-ARS-07; UPL-1

1.	0 30 15 5	= Total Cove Yes	er	Are OBL, FACW, or FAC: Total Number of Dominant Across All Strata: Percent of Dominant Specie Are OBL, FACW, or FAC: Prevalence Index workshee <u>Total % Cover of:</u> OBL species FACW species	Species	2 4 50 <u>Multiply E</u> × 1 =	(A) (B) (A/B) (A/B)
2	0 0 30 5	= Total Cove	er	 Total Number of Dominant Across All Strata: Percent of Dominant Specie Are OBL, FACW, or FAC: Prevalence Index workshee <u>Total % Cover of:</u> OBL species FACW species 	Species	4 50 Multiply E x 1 =	(B) (A/B) by: 0
3.	0 30 15 5	= Total Cove	er	 Across All Strata: Percent of Dominant Specie Are OBL, FACW, or FAC: Prevalence Index workshee <u>Total % Cover of:</u> OBL species FACW species 	es That	4 50 Multiply E × 1 =	(B) (A/B) by: 0
4. 5. 6. 7. Sapling/Shrub Stratum (Plot size:15 ft) 1. Cornus racemosa 2. Lonicera tatarica 6.	0 30 15 5	= Total Cove	er	 Percent of Dominant Specie Are OBL, FACW, or FAC: Prevalence Index workshee <u>Total % Cover of:</u> OBL species FACW species 	es That .t: 0 2	50 <u>Multiply E</u> × 1 =	(A/B) <u>}y:</u> 0
5	0 30 15 5	= Total Cove	er	Are OBL, FACW, or FAC: Prevalence Index workshee <u>Total % Cover of:</u> OBL species FACW species	et: 0 :	Multiply E	0
6	0 30 15 5	= Total Cove	er	Prevalence Index workshee <u>Total % Cover of:</u> OBL species FACW species	et: <u>0</u> 2	//ultiply E x 1 =	<u>}y:</u> 0
Sapling/Shrub Stratum (Plot size:15 ft) Cornus racemosa Lonicera tatarica	0 30 15 5	= Total Cove	er	Total % Cover of: OBL species FACW species	<u>N</u> 0	<u>Multiply E</u> x 1 =	<u>Зу:</u> О
Sapling/Shrub Stratum (Plot size:15 ft) 1. Cornus racemosa 2. Lonicera tatarica	0 30 15 5	= Total Cove	er	OBL species FACW species	0 2	x 1 =	0
Sapling/Shrub Stratum (Plot size: 15 ft) 1. Cornus racemosa 2. Lonicera tatarica	<u>30</u> 15 5	Yes Yes	EAC	FACW species			,
Cornus racemosa Lonicera tatarica	30 15 5	Yes Yes	EAC		0 2	x 2 =	0
2. Lonicera tatarica		Yes		FAC species	45 2	x 3 =	135
2. Lonicera tatarica	5	Yes	FAC	- FACU species	95 2	x 4 =	380
	5		FACU	- UPL species	0	x 5 =	0
3. Frangula alnus		NO	FAC	- Column Totals	140	(A)	515 (B)
4.				Prevalence Index	= B/A =	3.7	
5.		······································		Hydrophytic Vegetation Ind	icators:		
6				1- Rapid Test for Hydr	ophytic Ve	getation	
7				2 - Dominance Test is	> 50%	5	
	50	= Total Cove	er	3 - Prevalence Index is	$5 \le 3.0^{1}$		
<u>Herb Stratum</u> (Plot size: <u>5 ft</u>)				4 - Morphological Ada	ptations ¹ (Provide s	upporting
1. <i>Solidago canadensis</i>	80	Yes	FACU	- data in Remarks or on a ser	parate she	et)	
2.				Problematic Hydrophy	ytic Vegeta	tion ¹ (Exp	olain)
3				- ¹ Indicators of hydric soil an	d wetland	hydrolog	y must be
4				present, unless disturbed o	r problem	atic	,
5				Definitions of Vegetation St	rata:		
6				Tree – Woody plants 3 in. (7	'.6 cm) or r	nore in d	iameter at
7.				breast height (DBH), regard	lless of hei	ght.	
8.				- Sapling/shrub – Woody plan	nts less tha	n 3 in. D	BH and
9.				greater than or equal to 3.2	28 ft (1 m) t	all.	
10.				Herb – All herbaceous (non	-woody) pl	ants, reg	ardless of
11.				size, and woody plants less	than 3.28	ft tall.	
12.	·			Woody vines – All woody vin	nes greate	r than 3.2	28 ft in
	80	= Total Cove	۶r	height.			
Woody Vine Stratum (Plot size: 30 ft)		-		Hydrophytic Vegetation Pro	esent? Ye	s No	o 🖌
1 Vitis riparia	10	Yes	FAC				
2		105	inc	-			
3		· ·		-			
۸				-			
4.		- Total Cau		-			
	10		-1				
Remarks: (Include photo numbers here or on a sep	parate sheet.)						

	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0 - 7	10YR 4/3	100		_			Silt Loam	
7 - 16	10YR 4/6	100		_			Silt Loam	
		· ·						
		· ·		_				
		· ·						
		· ·		—	<u> </u>			
		· ·						
		· ·						
		· ·		—	<u> </u>			
ype: C = C	oncentration, D =	Depletio	n, RM = Reduced	Mat	rix, MS =	Masked Sa	and Grains. ² Lo	ocation: PL = Pore Lining, M = Matrix.
ydric Soil I	ndicators:							Indicators for Problematic Hydric Soils ³ :
Black Hi Hydroge Stratified Depleted Thick Da Sandy M Sandy R Sandy R Sandy R Dark Su	stic (A3) en Sulfide (A4) d Layers (A5) d Below Dark Surfa ark Surface (A12) fucky Mineral (S1) ileyed Matrix (S4) edox (S5) d Matrix (S6) rface (S7) (LRR R, N of hydrophytic veg	ace (A11) ILRA 149 etation a	Loamy Mucky Loamy Gleyer Depleted Mai Carlot Depleted Dar Depleted Dar Redox Depre Redox Depre	y Mir d Ma trix (I surfa k Su ssior	veral (F1) trix (F2) F3) ce (F6) rface (F7) rface (F7) rs (F8)	(LRR K, L)	unless disturbe	 Coast Prairie Redox (A16) (LKR K, L, K) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Dark Surface (S7) (LRR K, L) Polyvalue Below Surface (S8) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) d or problematic.
lestrictive L	ayer (if observed):			0105	y must be			
	Туре:		None			Hydric So	oil Present?	Yes No⁄_
	Depth (inches):							



WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: High River	City/County: Florida, Montgomery	Sampling Date: 2017-July-19
Applicant/Owner: NextEra	State: New York	Sampling Point: W-ARS-08; PSS-1
Investigator(s): Andrew Steiner, Adeline Belleshei		
Landform (hillslope, terrace, etc.): Depression	Local relief (concave, convex, none)	Concave Slope (%): 1-10
Subregion (LRR or MLRA): LRR L	Lat: 42.8884238 Long	-74.1398809 Datum: WGS84
Soil Map Unit Name: _ Appleton silt loam, 3 to 8 pe	cent slopes (ApB)	NWI classification:
Are climatic/hydrologic conditions on the site typica	for this time of year? Yes 🖌 No (If n	o, explain in Remarks.)
Are Vegetation, Soil, or Hydrology _	significantly disturbed? Are "Normal Circums	tances" present? Yes 🟒 No
Are Vegetation, Soil, or Hydrology _	naturally problematic? (If needed, explain a	າy answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes 🟒 No		
Hydric Soil Present?	Yes 🟒 No	Is the Sampled Area within a Wetland?	Yes No 🟒
Wetland Hydrology Present?	Yes No	If yes, optional Wetland Site ID:	
Remarks: (Explain alternative procedures he	re or in a separate report)		
TRC covertype is PSS. Area is wetland, all thr	ee wetland parameters ar	e present. thick hedgrow, ditch like feature	

Wetland Hydrology Indicators:						
Primary Indicators (minimum of on	e is required; check all t	hat apply)		Secondary Indicators (minimum of two required)		
Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2)	· Water- Aquatio Marl D Hydrog Oxidize	Stained Leaves (B9) : Fauna (B13) eposits (B15) en Sulfide Odor (C1) :d Rhizospheres on Living Roo	ots (C3)	 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) 		
Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Ima Sparsely Vegetated Concave Su	Presen Recent Thin M agery (B7) Other (rface (B8)	(C6)	 Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1) Geomorphic Position (D2) Shallow Aquitard (D3) Microtopographic Relief (D4) Consumer Tract (D5) 			
Field Observations:						
Surface Water Present?	Yes No 🟒	Depth (inches):				
Water Table Present?	Yes 🖌 No	Depth (inches):	7	Wetland Hydrology Present? Yes 🖌 No		
Saturation Present?	Yes 🟒 No	Depth (inches):	0			
(includes capillary fringe)						
Describe Recorded Data (stream ga	auge, monitoring well, a	erial photos, previous inspection	ions), if a	available:		
Remarks:						
A positive indication of wetland hyd	drology was observed (p	rimary and secondary indicato	ors were	e present).		

Sampling Point: W-ARS-08; PSS-1

Tree Stratum (Plot size: <u>30 ft</u>)	Absolute % Cover	Dominant	Indicator Status	Dominance Test worksheet:		
1. Energy de altress	25	Species.	- FAC	Are OBL_EACW or EAC	5	(A)
1. Frangula alnus		Yes	FAC	Total Number of Dominant Specie		
2. Fraxinus pennsylvanica	10	Yes	FACW	Across All Strata:	° 5	(B)
3				Percent of Dominant Species That		
4				Are OBL_FACW_or FAC	100	(A/B)
5				Provalence Index worksheet:		
6.					Multiply	D. <i>a</i>
7.						<u> </u>
	35	= Total Cov	er		- x I = -	0
Sapling/Shrub Stratum (Plot size: 15 ft)	-	-		FACW species 95	x 2 =	190
1 Frangula alnus	40	Yes	FAC	FAC species 65	x 3 =	195
2 Corpus amomum	15	Voc	EACW/	FACU species 10	x 4 =	40
	10	105	FACIU	UPL species 0	x 5 =	0
3. Lonicera tatarica	10	NO	FACU	Column Totals 170	(A)	425 (B)
4. Fraxinus pennsylvanica	10	No	FACW	Prevalence Index = B/A =	2.5	
5				Hydrophytic Vegetation Indicators		
6				1 Papid Test for Hydrophytic	Vogotation	
7				1- Rapid Test for Hydrophytic	vegetation	
	75	= Total Cov	er	2 - Dominance Test is >30%		
<u>Herb Stratum</u> (Plot size: <u>5 ft</u>)		-		3 - Prevalence Index is $\leq 3.0^{\circ}$	1 (5)	
1. Impatiens capensis	50	Yes	FACW	4 - Morphological Adaptation	s ¹ (Provide s	supporting
2. Onoclea sensibilis	10	No	FACW	data in Remarks or on a separate	sneet)	
3			en	Problematic Hydrophytic Veg	etation ¹ (Ex	plain)
				¹ Indicators of hydric soil and wetla	nd hydrolog	gy must be
*				present, unless disturbed or probl	ematic	
5.				Definitions of Vegetation Strata:		
6				Tree – Woody plants 3 in. (7.6 cm)	or more in c	liameter at
7				breast height (DBH), regardless of	height.	
8				Sapling/shrub – Woody plants less	than 3 in. D	BH and
9				greater than or equal to 3.28 ft (1	n) tall.	
10				Herb – All herbaceous (non-wood)) plants, reg	ardless of
11.				size, and woody plants less than 3	.28 ft tall.	
12.				Woody vines – All woody vines gre	ater than 3.	28 ft in
	60	= Total Cov	er	height.		<u> </u>
Woody Vine Stratum (Plot size: 30 ft)	-	-		Hydrophytic Vegetation Present?	Yes 🟒 N	o
1						
2						
2						
5						
4	<u> </u>					
	0	= Total Cov	er			
Remarks: (Include photo numbers here or on a separate	e sheet.)					
A positive indication of hydrophytic vegetation was aba	anuad (SEC	10% of domin	ant species	indexed as ORL EACW or EAC		
A positive indication of hydrophytic vegetation was obs	ei veu (250		ant species	Indexed as ODL, FACVV, OF FAC).		

Sampling Point: W-ARS-08; PSS-1

(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture		Remarks
0 - 16	2.5Y 3/2	85	10YR 4/6	15	C	М	Fine Sandy Clay Loam		
		· ·							
		· ·							
		· ·							
		· ·		_					
		· ·							
		· ·							
ype: C = C vdric Soil	oncentration, D = I	Depleti	on, RM = Reduce	d Matr	ix, MS =	Masked S	and Grains. ² Lo	ocation: PL = Pore Linin	g, M = Matrix. matic Hydric Soils ^{3.}
Histosol	(A1)		Polyvalue Be	elow Si	urface (S	8) (LRR R	. MLRA 149B)	2 are Music (A10) (
Histic Er	oipedon (A2)		Thin Dark Si	urface	(S9) (LRR	R, MLRA	149B)	2 CM MUCK (A10) (
Black Hi	stic (A3)		Loamy Mucl	ky Min	eral (F1)	(LRR K, L)		Coast Prairie Reut	OX (A 0) (LKK K, L, K)
Hydroge	en Sulfide (A4)		Loamy Gley	ed Mat	rix (F2)			Dark Surface (S7)	
Stratifie	d Layers (A5)		Depleted M	atrix (F	3)			Polyvalue Below 9	Surface (S8) (I RR K 1)
Deplete	d Below Dark Surfa	ice (A1	1)_🗸 Redox Dark	Surfac	e (F6)			Thin Dark Surface	(S9) (I RR K 1)
_ Thick Da	ark Surface (A12)		Depleted Da	ark Sur	face (F7)			Iron-Manganese I	Masses (F12) (I RR K. L. R)
Sandy N	lucky Mineral (S1)		Redox Depr	ession	s (F8)			Piedmont Floodn	ain Soils (E19) (MI RA 149B)
Sandy G	ileyed Matrix (S4)							Mesic Spodic (TA6	(MI RA 144A, 145, 149B)
Sandy R	edox (S5)							Red Parent Mater	ial (F21)
	d Matrix (S6)							Neu Falent Mater	(F21)
Dark Su	rface (S7) (LRR R, N	ILRA 14	19B)					Other (Explain in l	Remarks)
ndicators	of hydrophytic veg	etation	and wetland hyd	Irology	must be	e present	unless disturbe	d or problematic.	
estrictive	_ayer (if observed): 								
	Туре:		None			Hydric S	oil Present?		Yes 🟒 No
	Depth (inches):								
emarks:									
positive ir	ndication of hydric	soil wa	s observed.						
positive ir	ndication of hydric	soil wa	s observed.						
positive ir	ndication of hydric	soil wa	s observed.						
positive ir	ndication of hydric	soil wa	s observed.						
positive ir	ndication of hydric	soil wa	s observed.						



WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: High River	City/County:F	lorida, Montgomery	Sampling Date: 2017-July-19		
Applicant/Owner: NextEra	1	State: New York	Sampling Point: W-ARS-08; UPL-1		
Investigator(s): Andrew Ste					
Landform (hillslope, terrace,): None Slope (%): 0-1				
Subregion (LRR or MLRA):	LRR L	Lat: 42.8884238 Long	g: -74.1398809 Datum: WGS84		
Soil Map Unit Name: Apple	eton silt loam, 3 to 8 percent slopes (A	рВ)	NWI classification:		
Are climatic/hydrologic condi	itions on the site typical for this time of	f year? Yes _✔_ No (If	no, explain in Remarks.)		
Are Vegetation, Soil	, or Hydrology significantly	/ disturbed? Are "Normal Circum	nstances" present? Yes 🖌 No		
Are Vegetation, Soil	, or Hydrology naturally pr	oblematic? (If needed, explain a	any answers in Remarks.)		

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes No 🟒		
Hydric Soil Present?	Yes No 🟒	Is the Sampled Area within a Wetland?	Yes No 🟒
Wetland Hydrology Present?	Yes 🟒 No	lf yes, optional Wetland Site ID:	
Remarks: (Explain alternative procedures her	e or in a separate report,)	
TRC covertype is UPL. Area is upland, not all t	hree wetland parameter	s are present. Non mowed hay field	

Wetland Hydrology Indicators:						
Primary Indicators (minimum of on	e is required; check all	Secondary Indicators (minimum of two required)				
Surface Water (A1) High Water Table (A2) _✓ Saturation (A3) Water Marks (B1) Sediment Deposits (B2)	Water Aquat Marl I Hydro Oxidi:	r-Stained Leaves (B9) cic Fauna (B13) Deposits (B15) ogen Sulfide Odor (C1) zed Rhizospheres on Living Ro	oots (C3)	 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) 		
Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Ima Sparsely Vegetated Concave Su	Prese Recer Thin M agery (B7) Other rface (B8)	 Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1) Geomorphic Position (D2) Shallow Aquitard (D3) Microtopographic Relief (D4) 				
Field Observations:						
Surface Water Present?	Yes No 🟒	Depth (inches):				
Water Table Present?	Yes No 🟒	Depth (inches):		Wetland Hydrology Present? Yes No		
Saturation Present?	Yes 🟒 No	Depth (inches):	0	-		
(includes capillary fringe)						
Describe Recorded Data (stream ga	auge, monitoring well,	aerial photos, previous inspec	ctions), if	available:		
Remarks:						
A positive indication of wetland hyd	drology was observed (at least one primary indicato	r).			

Sampling Point: W-ARS-08; UPL-1

<u>Tree Stratum</u> (Plot size: <u>30 ft</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test works	i heet: Species That	0	(A)
1				Are OBL, FACW, or FAC			
2				Total Number of Domi Across All Strata:	nant Species	1	(B)
4.				 Percent of Dominant S Are OBL, FACW, or FAC 	pecies That	0	(A/B)
5				Prevalence Index work	sheet:		
6				- Total % Cover	of:	Multiply	Bv:
7				- OBL species	0	x 1 =	 0
	0	= Total Cov	er	FACW species	0	x 2 =	0
Sapling/Shrub Stratum (Plot size: <u>15 ft</u>)				FAC species	0	×3=	0
1				FACI I species	90	× 4 -	360
2.					10	×4- ×5-	500
3.				Column Totals	10	x 5 -	5U
4.					100	(A)	410 (B)
5.				Prevalence I	ndex = B/A =	4.1	
6.				Hydrophytic Vegetatio	n Indicators:		
7.				1- Rapid Test for	Hydrophytic V	/egetatior	ו
···		= Total Cov	er	2 - Dominance Te	st is > 50%		
Herb Stratum (Plot size: 5 ft)		-		3 - Prevalence Inc	dex is $\leq 3.0^1$		
1 Cichorium intyhus	65	Ves	FACU	4 - Morphologica	Adaptations	¹ (Provide	supporting
2 Phloum protonso		No	FACU	- data in Remarks or on	a separate sh	neet)	
2. Prileum prateinse			FACU	Problematic Hyd	rophytic Vege	tation ¹ (E:	xplain)
3. Dactylis glomerata			FACU	 Indicators of hydric so 	oil and wetlan	d hydrolo	gy must be
4. Pastinaca sativa	10	NO	UPL	present, unless disturb	ped or proble	matic	
5				Definitions of Vegetati	on Strata:		
6				Tree – Woody plants 3	in. (7.6 cm) oi	r more in	diameter at
7				breast height (DBH), re	egardless of h	eight.	
8				Sapling/shrub - Wood	y plants less t	han 3 in. I	DBH and
9				greater than or equal t	:o 3.28 ft (1 m) tall.	
10				Herb – All herbaceous	(non-woody)	plants, re	gardless of
11.				size, and woody plants	less than 3.2	8 ft tall.	
12.				Woody vines – All woo	dy vines great	ter than 3	.28 ft in
	100	= Total Cov	er	height.			
Woody Vine Stratum (Plot size: 30 ft)		-		Hydrophytic Vegetatio	on Present?	Yes N	No 🖌
1.							
2				-			
3				-			
				-			
4.				-			
	0	= lotal Cov	er				

Sampling Point: W-ARS-08; UPL-1

	Maurix		Redox	x Featu	ires				
nches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	2 Texture		Remarks
- 16	2.5Y 3/3	85	10YR 4/6	15	С	M Fine	Sandy Clay Loam		
			-						
				- <u></u>				<u> </u>	
e: C = (Concentration, D =	Deplet	on, RM = Reduce	d Matr	ix, MS =	Masked Sand Grains.	² Location: PL = Pore Lin	ing, M = M	atrix.
ic Soil	Indicators:						Indicators for Prob	ematic Hyd	dric Soils ³ :
listoso	I (A1)		Polyvalue Be	elow Si	urface (S	8) (LRR R, MLRA 149B) 2 cm Muck (A10) (LRR K, L,	MLRA 149B)
listic E	pipedon (A2)		Thin Dark Su	urface	(S9) (LRF	R, MLRA 149B)	Coast Prairie Re	dox (A16) ((LRR K, L, R)
lack H	ISTIC (A3)		Loamy Muci	ky Min ad Mat	eral (F1)	(LRR K, L)	5 cm Mucky Pea	at or Peat (53) (LRR K, L, R)
iyarog tratifia	en Sullide (A4)		Loarny Gley	ed Mat	LFIX (FZ)		Dark Surface (S	7) (LRR K, L)
)onlote	d Balow Dark Surf:	مدم (1۵	1) Redox Dark	au ix (r Surfac	5) (E6)		Polyvalue Belov	v Surface (S	58) (LRR K, L)
hick D	ark Surface (A12)		Depleted Da	ark Sur	face (F7)		Thin Dark Surfa	ce (S9) (LRF	R K, L)
andv N	Aucky Mineral (S1)		Bedox Depr	ression	s (F8)		Iron-Manganes	e Masses (F	12) (LRR K, L, R)
andy (Gleved Matrix (S4)		<u> </u>		5 (. 6)		Piedmont Floor	lplain Soils	(F19) (MLRA 149 E
	aleyea macine (3 i)						Mesic Spodic (T	A6) (MLRA	144A, 145, 149B)
Sandy F	Reday (SS)								
Sandy F	Redox (S5) d Matrix (S6)						Red Parent Mat	erial (F21)	
Sandy F Strippe Dark Su	Redox (S5) d Matrix (S6) urface (S7) (LRB R_N	/I RA 1/	19B)				Red Parent Mat Very Shallow Da	erial (F21) ark Surface	(TF12)
Sandy F Strippe Dark Su	Redox (S5) d Matrix (S6) urface (S7) (LRR R, N	ILRA 14	49B)				Red Parent Mat Very Shallow Da Other (Explain i	erial (F21) ark Surface n Remarks	(TF12))
Sandy F Strippe Dark Su	Redox (S5) d Matrix (S6) ırface (S7) (LRR R, N of hydrophytic veg	ILRA 14	19B) and wetland hyd	Irology	r must be	e present, unless distu	Red Parent Mat Very Shallow Da Other (Explain i ırbed or problematic.	erial (F21) ark Surface n Remarks	(TF12))
Gandy F Gandy F Dark Su Cators rictive	Redox (S5) d Matrix (S6) urface (S7) (LRR R, M <u>of hydrophytic veg</u> Layer (if observed) :	ILRA 14 etation	19B) and wetland hyd	Irology	r must be	e present, unless distu	Red Parent Mat Very Shallow Da Other (Explain i ırbed or problematic.	erial (F21) ark Surface n Remarks	(TF12))
andy F trippe Dark Su cators rictive	Redox (S5) d Matrix (S6) urface (S7) (LRR R, M <u>of hydrophytic veg</u> Layer (if observed): Type:	ILRA 14 etation	19B) and wetland hyd None	Irology	r must be	e present, unless distu Hydric Soil Present?	Red Parent Mat Very Shallow Da Other (Explain i Irbed or problematic.	erial (F21) ark Surface n Remarks Yes	(TF12)) No∕_
andy F trippe Dark Su cators rictive	Redox (S5) d Matrix (S6) urface (S7) (LRR R, M of hydrophytic veg Layer (if observed): Type: Depth (inches):	ILRA 14 etation	49B) and wetland hyd None	Irology -	r must be	e present, unless distu Hydric Soil Present?	Red Parent Mat Very Shallow Da Other (Explain i Irbed or problematic.	erial (F21) ark Surface n Remarks Yes	(TF12)) No∕_
andy F trippe Dark Su cators rictive	Redox (S5) d Matrix (S6) urface (S7) (LRR R, M of hydrophytic veg Layer (if observed): Type: Depth (inches):	ILRA 14	49B) and wetland hyd None	Irology -	r must be	e present, unless distu Hydric Soil Present?	Red Parent Mat Very Shallow Da Other (Explain i Irbed or problematic.	erial (F21) ark Surface n Remarks Yes	(TF12)) No∕_
andy F trippe oark Su cators rictive	Redox (S5) d Matrix (S6) urface (S7) (LRR R, N <u>of hydrophytic veg</u> Layer (if observed): Type: Depth (inches):	ILRA 14	19B) and wetland hyd None	Irology -	r must be	e present, unless distu Hydric Soil Present?	Red Parent Mat Very Shallow Da Other (Explain i Irbed or problematic.	erial (F21) ark Surface n Remarks Yes	(TF12)) No∕_
andy F trippe oark Su cators rictive	Redox (S5) d Matrix (S6) urface (S7) (LRR R, N <u>of hydrophytic veg</u> Layer (if observed): Type: Depth (inches):	ILRA 14	19B) and wetland hyd None	Irology -	r must be	e present, unless distu Hydric Soil Present?	Red Parent Mat Very Shallow Da Other (Explain i irbed or problematic.	erial (F21) ark Surface n Remarks Yes	(TF12)) No∕_
andy F trippe ark Su cators ictive	Redox (S5) d Matrix (S6) urface (S7) (LRR R, N <u>of hydrophytic veg</u> Layer (if observed): Type: Depth (inches):	ILRA 14	19B) and wetland hyd None	Irology -	r must be	e present, unless distu Hydric Soil Present?	Red Parent Mat Very Shallow Da Other (Explain i irbed or problematic.	erial (F21) ark Surface n Remarks Yes	(TF12)) No∕_
andy F trippe ark Su cators ictive	Redox (S5) d Matrix (S6) urface (S7) (LRR R, N <u>of hydrophytic veg</u> Layer (if observed): Type: Depth (inches):	ILRA 14	19B) and wetland hyd None	Irology 	r must be	e present, unless distu Hydric Soil Present?	Red Parent Mat Very Shallow Da Other (Explain i irbed or problematic.	erial (F21) ark Surface n Remarks Yes	(TF12)) No∕_
andy F trippe ark Su cators cictive	Redox (S5) d Matrix (S6) urface (S7) (LRR R, N <u>of hydrophytic veg</u> Layer (if observed): Type: Depth (inches):	ILRA 14	49B) and wetland hyd None	Irology -	r must be	e present, unless distu Hydric Soil Present?	Red Parent Mat Very Shallow Da Other (Explain i irbed or problematic.	erial (F21) ark Surface n Remarks Yes	(TF12)) No∕_
andy F trippe ark Su cators cators cictive	Redox (S5) d Matrix (S6) urface (S7) (LRR R, N <u>of hydrophytic veg</u> Layer (if observed): Type: Depth (inches):	ILRA 14	49B) and wetland hyd None	Irology -	r must be	e present, unless distu Hydric Soil Present?	Red Parent Mat Very Shallow Da Other (Explain i Irbed or problematic.	erial (F21) ark Surface n Remarks Yes	(TF12)) No∕_
andy F trippe ark Su cators fictive	Redox (S5) d Matrix (S6) urface (S7) (LRR R, N <u>of hydrophytic veg</u> Layer (if observed): Type: Depth (inches):	ILRA 14	19B) and wetland hyd None	Irology -	r must be	e present, unless distu Hydric Soil Present?	Red Parent Mat Very Shallow Da Other (Explain i Irbed or problematic.	erial (F21) ark Surface n Remarks Yes	(TF12)) No∕_
andy F trippe aark Su cators cators arks:	Redox (S5) d Matrix (S6) urface (S7) (LRR R, N <u>of hydrophytic veg</u> Layer (if observed): Type: Depth (inches):	ILRA 14	19B) and wetland hyd None	Irology -	r must be	e present, unless distu Hydric Soil Present?	Red Parent Mat Very Shallow Da Other (Explain i irbed or problematic.	erial (F21) ark Surface n Remarks Yes	(TF12)) No∕_
andy F trippe oark Su cators cators cictive	Redox (S5) d Matrix (S6) urface (S7) (LRR R, N <u>of hydrophytic veg</u> Layer (if observed): Type: Depth (inches):	ILRA 14	49B) n and wetland hyd None	Irology -	must be	e present, unless distu Hydric Soil Present?	Red Parent Mat Very Shallow Da Other (Explain i irbed or problematic.	erial (F21) ark Surface n Remarks Yes	(TF12)) No∕_
andy F trippe vark Su cators cators cictive	Redox (S5) d Matrix (S6) urface (S7) (LRR R, N <u>of hydrophytic veg</u> Layer (if observed): Type: Depth (inches):	ILRA 14	49B) n and wetland hyd None	Irology -	must be	e present, unless distu Hydric Soil Present?	Red Parent Mat Very Shallow Da Other (Explain i irbed or problematic.	erial (F21) ark Surface n Remarks Yes	(TF12)) No∕_
andy F trippe vark Su cators cators cictive	Redox (S5) d Matrix (S6) urface (S7) (LRR R, N <u>of hydrophytic veg</u> Layer (if observed): Type: Depth (inches):	ILRA 14	19B) n and wetland hyd None	Irology -	r must be	e present, unless distu Hydric Soil Present?	Red Parent Mat Very Shallow Da Other (Explain i irbed or problematic.	erial (F21) ark Surface n Remarks Yes	(TF12)) No∕_
andy F trippe oark Su cators cators rictive	Redox (S5) d Matrix (S6) urface (S7) (LRR R, N <u>of hydrophytic veg</u> Layer (if observed): Type: Depth (inches):	ILRA 14	49B) n and wetland hyd None	Irology -	r must be	e present, unless distu Hydric Soil Present?	Red Parent Mat Very Shallow Da Other (Explain i irbed or problematic.	erial (F21) ark Surface n Remarks Yes	(TF12)) No∕_
arks:	Redox (S5) d Matrix (S6) urface (S7) (LRR R, N <u>of hydrophytic veg</u> Layer (if observed): Type: Depth (inches):	ILRA 14	49B) n and wetland hyd None	Irology -	must be	e present, unless distu Hydric Soil Present?	Red Parent Mat Very Shallow Da Other (Explain i irbed or problematic.	erial (F21) ark Surface n Remarks	(TF12)) No
icators rictive	Redox (S5) d Matrix (S6) urface (S7) (LRR R, N <u>of hydrophytic veg</u> Layer (if observed): Type: Depth (inches):	ILRA 14	49B) n and wetland hyd None	Irology -	r must be	e present, unless distu Hydric Soil Present?	Red Parent Mat Very Shallow Da Other (Explain i irbed or problematic.	erial (F21) ark Surface n Remarks	(TF12)) No
icators rictive	Redox (S5) d Matrix (S6) urface (S7) (LRR R, N <u>of hydrophytic veg</u> Layer (if observed): Type: Depth (inches):	ILRA 14	49B) n and wetland hyd None	lrology -	r must be	e present, unless distu Hydric Soil Present?	Red Parent Mat Very Shallow Da Other (Explain i irbed or problematic.	erial (F21) ark Surface n Remarks	(TF12)) No∕_
icators rictive	Redox (S5) d Matrix (S6) urface (S7) (LRR R, N <u>of hydrophytic veg</u> Layer (if observed): Type: Depth (inches):	ILRA 14	49B) n and wetland hyd None	Irology -	r must be	e present, unless distu Hydric Soil Present?	Red Parent Mat Very Shallow Da Other (Explain i irbed or problematic.	erial (F21) ark Surface n Remarks	(TF12)) No∠
icators rictive	Redox (S5) d Matrix (S6) urface (S7) (LRR R, N <u>of hydrophytic veg</u> Layer (if observed): Type: Depth (inches):	ILRA 14	49B) n and wetland hyd None	Irology -	r must be	e present, unless distu Hydric Soil Present?	Red Parent Mat Very Shallow Da Other (Explain i irbed or problematic.	erial (F21) ark Surface n Remarks	(TF12)) No∠
arks:	Redox (S5) d Matrix (S6) urface (S7) (LRR R, N <u>of hydrophytic veg</u> Layer (if observed): Type: Depth (inches):	ILRA 14	19B) None	Irology -	r must be	e present, unless distu Hydric Soil Present?	Red Parent Mat Very Shallow Da Other (Explain i irbed or problematic.	erial (F21) ark Surface n Remarks	(TF12) No∠



WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: High River			ty/County: Florid	da, Montgo	mery	Sampling Date: 2017-July-19			
Applicant/Owner: Ne	xtEra				State:	New York	Sampling Point:	W-ARS-09; PFO-1	
Investigator(s): Andrew Steiner, Adeline Bellesheim Section, Township, Range:									
Landform (hillslope, terr	race, etc.):	Depression	I	Local relief	(concave,	convex, none)	Concave	Slope (%): 0-1	
Subregion (LRR or MLRA	A): LRR L			Lat:	42.901234	45 Long	-74.1521591	Datum: WGS84	
Soil Map Unit Name:	Darien silt loa	m, 0 to 3 percent	slopes (DaA)				NWI classifi	cation:	
Are climatic/hydrologic of	conditions on	the site typical fo	r this time of yea	ar?	Yes 🖌	_ No (If n	o, explain in Rema	arks.)	
Are Vegetation, S	Soil, c	or Hydrology	_significantly dist	turbed?	Are "N	ormal Circum	stances" present?	Yes 🟒 No	
Are Vegetation, S	5oil, c	or Hydrology	_ naturally proble	ematic?	(If nee	ded, explain a	ny answers in Rem	narks.)	

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present?	Yes 🟒 No Yes 🟒 No	Is the Sampled Area within a Wetland?	Yes 🟒 No
Wetland Hydrology Present?	Yes 🟒 No	If yes, optional Wetland Site ID:	W-ARS-09
Remarks: (Explain alternative procedures	here or in a separate repo	ort)	
TRC covertype is PFO. Area is wetland, all	three wetland parameters	s are present.	

Wetland Hydrology Indicators:	as is required, check all that apply	Facandary Indicators (minimum of two required)
Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2)	<u>—</u> Water-Stained Leaves (B9) <u> </u>	Surface Soil Cracks (B6) ✓ Drainage Patterns (B10) ✓ Moss Trim Lines (B16) Ory-Season Water Table (C2) ts (C3) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9)
 Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Ima Sparsely Vegetated Concave Su 	Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (Thin Muck Surface (C7) Other (Explain in Remarks) rface (B8)	 ✓ Stunted or Stressed Plants (D1) C6) ✓ Geomorphic Position (D2) Shallow Aquitard (D3) Microtopographic Relief (D4) ✓ FAC-Neutral Test (D5)
Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe)	Yes No _∠ Depth (inches): Yes No _∠ Depth (inches): Yes _∠ No Depth (inches):	Wetland Hydrology Present? Yes _∠_ No 0
Describe Recorded Data (stream g	auge, monitoring well, aerial photos, previous inspection	ons), if available:
Remarks:		
A positive indication of wetland hyd	drology was observed (primary and secondary indicate	ors were present).

Sampling Point: W-ARS-09; PFO-1

Tree Stratum (Plot size: 30 ft)	Absolute	Dominant	Indicator	Dominance Test workshe	et:		
	% Cover	Species?	Status	Number of Dominant Sp	ecies That	3	(A)
1. <u>Tsuga canadensis</u>	50	Yes	FACU	Total Number of Domina	nt Charles		
2. Fagus grandifolia	5	No	FACU	Across All Strata:	nt species	4	(B)
3				- Dercent of Dominant Cos	ciec That		
4						75	(A/B)
5				Brevalence Index worksh	oot:		
6.				Total % Cover of	eel.	Multich	D. #
7.				OPL species	<u>.</u>	<u>Multiply</u>	<u>ву:</u>
	55	= Total Cov	er		0	x I =	0
Sapling/Shrub Stratum (Plot size: 15 ft)		-		FACW species	85	x 2 =	170
1. Viburnum lentago	15	Yes	FAC	FAC species	25	x 3 =	75
2 Fravinus pennsylvanica	5	Ves	FACW	FACU species	55	x 4 =	220
2			T/ICH	- UPL species	0	x 5 =	0
S				- Column Totals	165	(A)	465 (B)
4.		·		Prevalence Ind	ex = B/A =	2.8	
5.				Hydrophytic Vegetation I	ndicators:		
6		·		1- Rapid Test for Hy	drophytic V	/egetatior	ı
7				2 - Dominance Test	is >50%	0	
	20	= Total Cov	er	. 3 - Prevalence Index	$c_{15} < 3.0^{1}$		
<u>Herb Stratum</u> (Plot size: <u>5 ft</u>)				4 - Morphological A	dantations ¹	(Provide	supporting
1. <i>Impatiens capensis</i>	75	Yes	FACW	- data in Remarks or on a	separate sh	(Froviac leet)	Supporting
2. Parathelypteris noveboracensis	10	No	FAC	Problematic Hydror	hytic Vege	tation ¹ (E	volain)
3. <i>Onoclea sensibilis</i>	5	No	FACW	Indicators of hydric soil	and wetlan	d hydrolo	gy must he
4.				present, unless disturbed	d or probler	matic	gy must be
5.		·		Definitions of Vegetation	Strata.	nacie	
6				Tree Woody plants 3 in	(7.6 cm) or	r moro in	diamotor at
7		·		hreast height (DBH) rega	rdless of h	eight	ulameter at
×		·		Sanling/shrub - Woody n	lante loce ti	han 3 in 1	DBH and
0		•		greater than or equal to	3.28 ft (1 m) tall.	Derrand
3				Herh – All herhaceous (n	on-woody)	nlants re	gardless of
				size, and woody plants le	ss than 3.2	8 ft tall.	garaiess or
11		·		Woody vines - All woody	vines great	ter than 3	28 ft in
12				height.	vines great		.2010111
	90	= Total Cov	er		D	(()	
Woody Vine Stratum (Plot size: <u>30 ft</u>)				Hydrophytic vegetation	Present?	res 🟒 i	NO
1				_			
2.							
3.							
4.							
	0	= Total Cov	er	-			
		-					
Remarks: (Include photo numbers here or on a separate	e sheet.)						
A positive indication of hydrophytic vegetation was obse	erved (>50)% of domin	ant species	indexed as OBL, FACW, or	FAC).		

Sampling Point: W-ARS-09; PFO-1

	Matrix		Redo:	x Feat	nent the i Tures	ndicator or confirn	n the absence of indic	cators.)
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0 - 4	10YR 2/2	100					Silt Loam	
4 - 16	10YR 5/2	60	10YR 5/6	30		F	ne Sandy Loam	
	10YR 6/6	10						
·	1011(0)0							
·						<u> </u>		
·								
		Denleti						ava Lining M - Matrix
ype: C = C	oncentration, D =	Depletio	on, $RIVI = Reduced$	a Mati	rix, IVIS =	Masked Sand Grail	is. ² Location: PL = P	ore Lining, M = Matrix.
/dric Soil I	Indicators:				<i>c (</i> -		Indicators fo	r Problematic Hydric Soils ³ :
_ Histosol	(A1)		Polyvalue Be	elow S	urface (S	8) (LKK K, MLKA 14	9В) 2 ст Ми	ck (A10) (LRR K, L, MLRA 149B)
Black Hi	stic (A3)			Minace	(59) (LKK	(IDD K I)	Coast Pra	airie Redox (A16) (LRR K, L, R)
Hvdroge	en Sulfide (A4)		Loamy Gleve	ed Ma	trix (F2)		5 cm Mu	cky Peat or Peat (S3) (LRR K, L, R)
Stratifie	d Layers (A5)		✓ Depleted Ma	atrix (F	=3)		Dark Sur	face (S7) (LRR K, L)
_ _ Deplete	d Below Dark Surf	ace (A11	I) Redox Dark	Surfac	ce (F6)		Polyvalue	e Below Surface (S8) (LRR K, L)
_ Thick Da	ark Surface (A12)		Depleted Da	ırk Suı	rface (F7)		Inin Dari	K SUITACE (S9) (LRR K, L)
_ Sandy N	lucky Mineral (S1)		Redox Depr	essior	ns (F8)		Iron-Mar	t Eloodolaio Soils (E10) (MI DA 1400)
_ Sandy G	leyed Matrix (S4)						Fledmon Mesic Sn	odic (TA6) (MI RA 144A 145 149B)
_ Sandy R	edox (S5)						Red Pare	nt Material (E21)
Chainson	A Matrix (CC)						Keu Fure Verv Sha	llow Dark Surface (TF12)
_ Stripped	1 Matrix (50)							
_ Stripped _ Dark Su	rface (S7) (LRR R, I	MLRA 14	9B)				Other (E>	(plain in Remarks)
_ Stripped _ Dark Su	rface (S7) (LRR R, I of hydrophytic veg	MLRA 14 getation	9 B) and wetland hyd	rology	y must be	e present, unless d	Other (Ex Sturbed or problema	(plain in Remarks)
Stripped Dark Su ndicators d	rface (S7) (LRR R, I of hydrophytic veş Layer (if observed)	MLRA 14 getation	9 B) and wetland hyd	Irology	y must be	e present, unless d	Other (Ex	xplain in Remarks) tic.
_ Stripped _ Dark Su ndicators d estrictive L	rface (S7) (LRR R, I of hydrophytic veş L ayer (if observed) Type:	MLRA 14 getation):	9 B) and wetland hyd None	rology	y must be	e present, unless d	Other (E> sturbed or problema	(plain in Remarks) tic. Yes _ / No
_ Stripped _ Dark Su ndicators estrictive L	rface (S7) (LRR R, I of hydrophytic veg Layer (if observed) Type: Depth (inches):	MLRA 14 getation :	9 B) and wetland hyd None	rology	y must be	e present, unless d Hydric Soil Prese	Other (Ex sturbed or problema	xplain in Remarks) tic. Yes No
Stripped Dark Su hdicators	rface (S7) (LRR R, I of hydrophytic veg Layer (if observed) Type: Depth (inches):	MLRA 14 getation):	9 B) and wetland hyd None	rology	y must be	e present, unless d Hydric Soil Prese	Other (Ex sturbed or problema	xplain in Remarks) tic. Yes No
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_ Stripped _ Dark Su idicators : strictive I	rface (S7) (LRR R, I of hydrophytic veg Layer (if observed) Type: Depth (inches):	MLRA 14 getation :	9 B) and wetland hyd None	-	y must be	e present, unless d Hydric Soil Prese	Other (Ex isturbed or problema nt?	xplain in Remarks) tic. Yes No
_ Stripped _ Dark Su idicators / strictive I	rface (S7) (LRR R, I of hydrophytic veg Layer (if observed) Type: Depth (inches):	MLRA 14 getation :	9 B) and wetland hyd None	rolog <u> </u>	y must be	e present, unless d Hydric Soil Prese	Other (Ex isturbed or problema nt?	xplain in Remarks) tic. Yes No
_ Stripped _ Dark Su istrictive L :marks:	rface (S7) (LRR R, I of hydrophytic veg La yer (if observed) Type: Depth (inches):	MLRA 14 getation ::	9 B) and wetland hyd None	-	y must be	e present, unless d Hydric Soil Prese	Other (Ex isturbed or problema	xplain in Remarks) tic. Yes No
Strippec 	rface (S7) (LRR R, I of hydrophytic veg La yer (if observed) Type: Depth (inches):	MLRA 14 getation :	9 B) and wetland hyd None	-	y must be	e present, unless d Hydric Soil Prese	Other (Ex isturbed or problema	xplain in Remarks) tic. Yes No
_ stripped _ Dark Su hdicators - istrictive I marks:	rface (S7) (LRR R, I of hydrophytic veg L ayer (if observed) Type: Depth (inches):	MLRA 14 getation :	9 B) and wetland hyd None	-	y must be	e present, unless d Hydric Soil Prese	Other (Ex sturbed or problema	xplain in Remarks) tic. Yes No
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_ Stripped _ Dark Su estrictive L	rface (S7) (LRR R, I of hydrophytic veg L ayer (if observed) Type: Depth (inches):	MLRA 14 getation :	9 B) and wetland hyd None	-	y must be	e present, unless d Hydric Soil Prese	Other (Ex sturbed or problema	xplain in Remarks) tic. Yes No
_ Stripped _ Dark Su hdicators strictive I	rface (S7) (LRR R, I of hydrophytic veg Layer (if observed) Type: Depth (inches):	MLRA 14 getation :	9 B) and wetland hyd None	- -	y must be	e present, unless d Hydric Soil Prese	Other (Ex sturbed or problema	xplain in Remarks) tic. Yes No
_ Stripped _ Dark Su hdicators estrictive L	rface (S7) (LRR R, I of hydrophytic veg Layer (if observed) Type: Depth (inches):	MLRA 14 getation :	9 B) and wetland hyd None		y must be	e present, unless d Hydric Soil Prese	Other (Ex sturbed or problema	xplain in Remarks) tic. Yes No
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Stripped Dark Su ndicators estrictive I 	rface (S7) (LRR R, I of hydrophytic veg Layer (if observed) Type: Depth (inches):	MLRA 14 getation :	9 B) and wetland hyd None	- 	y must be	e present, unless d Hydric Soil Prese	Other (Example in the second seco	xplain in Remarks) tic. Yes _ / No
Stripped Dark Su ndicators estrictive I emarks:	rface (S7) (LRR R, I of hydrophytic veg La yer (if observed) Type: Depth (inches):	MLRA 14 getation :	9 B) and wetland hyd None	- 	y must be	e present, unless d Hydric Soil Preser	Other (Example in the sturbed or problema int?	xplain in Remarks) tic. Yes No
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Soil Photos



Photo of Sample Plot



US Army Corps of Engineers

Northcentral and Northeast Region -- Version 2.0 Adapted by TRC

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: High River	City/County:Florida, Montgo	omery County	Sampling Date: 20	17-July-19
Applicant/Owner: NextEra		State: New York	Sampling Point: W-A	RS-09; UPL-1
Investigator(s): Andrew Steiner, Adeline Belles	ieim Sec	tion, Township, Range:		
Landform (hillslope, terrace, etc.): Hilltop	Local relief	f (concave, convex, none):	Convex	Slope (%): 1-10
Subregion (LRR or MLRA): LRR L	Lat:	42.9014369 Long:	-74.1523084	Datum: WGS84
Soil Map Unit Name: Darien silt loam, 0 to 3 pe	rcent slopes (DaA)		NWI classificatio	on:
Are climatic/hydrologic conditions on the site typ	cal for this time of year?	Yes 🟒 No (If n	o, explain in Remarks.))
Are Vegetation, Soil, or Hydrolog	<pre>/ significantly disturbed?</pre>	Are "Normal Circums	tances" present?	Yes 🟒 No
Are Vegetation, Soil, or Hydrolog	<pre>/ naturally problematic?</pre>	(If needed, explain ar	iy answers in Remarks	5.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes No 🟒		
Hydric Soil Present?	Yes No 🟒	Is the Sampled Area within a Wetland?	Yes No 🟒
Wetland Hydrology Present?	Yes No _	lf yes, optional Wetland Site ID:	
Remarks: (Explain alternative procedures he	ere or in a separate report)	
TRC covertype is UPL. Area is upland, not all	three wetland parameter	s are present. Use this upland plot for wetland W-9. her	mlock upland

Wetland Hydrology Indicators:				
Primary Indicators (minimum of on	e is required; check all t	<u>hat apply)</u>	Secondary Indicators (minimum c	of two required)
Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2)	Water- Aquati Marl D Hydrog Oxidize	Stained Leaves (B9) c Fauna (B13) eposits (B15) gen Sulfide Odor (C1) ed Rhizospheres on Living Roots (C3)	 Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Im 	agery (C9)
 Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Ima Sparsely Vegetated Concave Sur 	Preser Recent Thin M gery (B7) Other face (B8)	ice of Reduced Iron (C4) Iron Reduction in Tilled Soils (C6) uck Surface (C7) (Explain in Remarks)	 Stunted or Stressed Plants (D1 Geomorphic Position (D2) Shallow Aquitard (D3) Microtopographic Relief (D4) FAC-Neutral Test (D5))
Field Observations:			(,	
Surface Water Present? Water Table Present?	Yes No _ _/ Yes No _ _/	Depth (inches): Depth (inches):	- Wetland Hydrology Present?	Yes No
Saturation Present?	Yes No 🟒	Depth (inches):	_	
(includes capillary fringe)				
Describe Recorded Data (stream ga	auge, monitoring well, a	erial photos, previous inspections), if a	available:	
No positive indication of wetland hy	ydrology was observed.			

Sampling Point: W-ARS-09; UPL-1

	Absolute	Dominant	Indicator	Dominance Test worksheet:		
Tree Stratum (Plot size: <u>30 ft</u>)	% Cover	Species?	Status	Number of Dominant Species That	-	
1 Tsuga canadensis	90	Yes	FACU	Are OBL, FACW, or FAC:	0	(A)
2 Esque grandifalia	5	No	FACU	Total Number of Dominant Species		(5)
		110	TACO	Across All Strata:	3	(B)
		<u> </u>		Percent of Dominant Species That	0	(4 (D)
4		·		Are OBL, FACW, or FAC:	0	(A/B)
S	<u> </u>	·		Prevalence Index worksheet:		
6		<u> </u>		Total % Cover of:	<u>Multiply</u>	<u>By:</u>
/		<u> </u>		OBL species 0	x 1 =	0
	95	= Total Cov	er	FACW species 0	x 2 =	0
Sapling/Shrub Stratum (Plot size: <u>15 ft</u>)				FAC species 0	x 3 =	0
1. <i>Tsuga canadensis</i>	5	Yes	FACU	FACU species 105	x 4 =	420
2. Fagus grandifolia	5	Yes	FACU	UPL species 0	x 5 =	0
3				Column Totals 105	(A) -	420 (B)
4				$\frac{100}{100}$	(~) _/	420 (D)
5.					4	
6.				Hydrophytic Vegetation Indicators:		
7.				1- Rapid Test for Hydrophytic	/egetation	1
	10	= Total Cov	er	2 - Dominance Test is > 50%		
Herb Stratum (Plot size: 5 ft)		-		3 - Prevalence Index is $\leq 3.0^{1}$		
1				4 - Morphological Adaptations	¹ (Provide	supporting
2		<u> </u>		data in Remarks or on a separate sl	ieet)	
2	<u> </u>	<u> </u>		Problematic Hydrophytic Vege	tation ¹ (Ex	(plain)
S				¹ Indicators of hydric soil and wetlar	d hydrolo	gy must be
4.		<u> </u>		present, unless disturbed or proble	matic	
5		·		Definitions of Vegetation Strata:		
6				Tree – Woody plants 3 in. (7.6 cm) o	r more in o	diameter at
7				breast height (DBH), regardless of h	eight.	
8				Sapling/shrub – Woody plants less t	han 3 in. E	OBH and
9				greater than or equal to 3.28 ft (1 m	ı) tall.	
10				Herb – All herbaceous (non-woody)	plants, reg	gardless of
11.				size, and woody plants less than 3.2	8 ft tall.	
12.				Woody vines – All woody vines grea	ter than 3.	.28 ft in
	0	= Total Cov	er	height.		
Woody Vine Stratum (Plot size: 30 ft)		-		Hydrophytic Vegetation Present?	Yes N	No 🔽
1.						
2		<u> </u>				
2		·				
	<u> </u>	<u> </u>				
4		Tabal Car				
	0	= Total Cov	er			
Remarks: (Include photo numbers here or on a separate No positive indication of hydrophytic vegetation was ob	e sheet.) served (≥	50% of dom	inant specie	es indexed as FAC– or drier).		

(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ² Text	ure	Remarks
0 - 3	7.5YR 3/4	100				Silt L	oam	
3 - 16	7.5YR 5/6	100				Silt L	oam	
		,						
				·				
				· —				
<u> </u>		<u> </u>		· —				
				· —				
				· —		<u> </u>		
				· —			·	
				· —				
vne: (= (oncentration D = I	Depletio	n RM = Reduced	Mati	rix MS =	Masked Sand Grains	² l ocation: Pl = Por	e Lining M = Matrix
dric Soil I	Indicators:	Jepiecio	n, nur neudeed	wat	17, 1915	Musice Sund Gruins.	Indicators for F	Problematic Hydric Soils ³ :
Histosol	(A1)		Polvvalue Bel	low S	urface (S	8) (LRR R. MLRA 149B) 2 cm Muck	
 Histic Ep	pipedon (A2)		Thin Dark Sur	rface	(S9) (LRR	R, MLRA 149B)	Coast Prair	(ATU) (LRR N, L, MLRA 1496) ie Redox (A16) (LRR K R)
_ Black Hi	stic (A3)		Loamy Mucky	y Min	eral (F1)	(LRR K, L)	5 cm Muck	v Peat or Peat (S3) (LRR K. L. R)
_ Hydroge	en Sulfide (A4)		Loamy Gleyed	d Ma	trix (F2)		Dark Surfac	ce (S7) (LRR K, L)
_ Stratifie	d Layers (A5) d Bolow Dark Surfa	0.00 (111)	Depleted Mat	trix (F	-3) -2 (E6)		Polyvalue E	elow Surface (S8) (LRR K, L)
Thick Da	u Below Dark Surra ark Surface (A12)	ice (ATT)	Redux Dark 3	'k Sui	face (F0)		Thin Dark S	Surface (S9) (LRR K, L)
Sandy N	lucky Mineral (S1)		Redox Depres	ssion	is (F8)		Iron-Manga	anese Masses (F12) (LRR K, L, R)
Sandy N Sandy G	flucky Mineral (S1) Gleyed Matrix (S4)		Redox Depre:	ssion	is (F8)		Iron-Manga Piedmont F	anese Masses (F12) (LRR K, L, R) Floodplain Soils (F19) (MLRA 149B)
Sandy N Sandy G Sandy R	Aucky Mineral (S1) Gleyed Matrix (S4) Redox (S5)		Redox Depre:	ssior	is (F8)		Iron-Manga Piedmont F Mesic Spod	anese Masses (F12) (LRR K, L, R) Floodplain Soils (F19) (MLRA 149B) lic (TA6) (MLRA 144A, 145, 149B) Material (F21)
Sandy N Sandy G Sandy R Stripped	Mucky Mineral (S1) Gleyed Matrix (S4) Gledox (S5) d Matrix (S6)		Redox Depre:	ssior	is (F8)		Iron-Manga Piedmont F Mesic Spod Red Parent Verv Shallo	anese Masses (F12) (LRR K, L, R) Floodplain Soils (F19) (MLRA 149B) lic (TA6) (MLRA 144A, 145, 149B) Material (F21) w Dark Surface (TF12)
Sandy M Sandy G Sandy R Stripped Dark Su	Jucky Mineral (S1) Gleyed Matrix (S4) Redox (S5) d Matrix (S6) rface (S7) (LRR R, N	ilra 149	B)	ssior	is (F8)		Iron-Manga Piedmont F Mesic Spod Red Parent Very Shallo Other (Expl	anese Masses (F12) (LRR K, L, R) Floodplain Soils (F19) (MLRA 149B) lic (TA6) (MLRA 144A, 145, 149B) Material (F21) w Dark Surface (TF12) lain in Remarks)
Sandy M Sandy G Sandy R Stripped Dark Su	Mucky Mineral (S1) Sleyed Matrix (S4) Ledox (S5) d Matrix (S6) rface (S7) (LRR R, M of hydrophytic veg	ILRA 149	B) Ind wetland hydr	ssior	ıs (F8) y must be	e present, unless distr	Iron-Manga Piedmont F Mesic Spod Red Parent Very Shallo Other (Expl urbed or problematic	anese Masses (F12) (LRR K, L, R) Floodplain Soils (F19) (MLRA 149B) lic (TA6) (MLRA 144A, 145, 149B) Material (F21) w Dark Surface (TF12) lain in Remarks)
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Sandy N Sandy G Sandy R Stripped Dark Su ndicators d estrictive L	Aucky Mineral (S1) Aucky Mineral (S1) Sleyed Matrix (S4) d Matrix (S6) rface (S7) (LRR R, N of hydrophytic veg Layer (if observed): Type:	ILRA 149	Below Depree Parison P	ssior <u>olog</u>	y must be	e present, unless distu Hydric Soil Present?	Iron-Manga Piedmont F Mesic Spod Red Parent Very Shallo Other (Expl urbed or problematic Yes	anese Masses (F12) (LRR K, L, R) Floodplain Soils (F19) (MLRA 149B) lic (TA6) (MLRA 144A, 145, 149B) Material (F21) w Dark Surface (TF12) ain in Remarks)
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Sandy M Sandy G Sandy R Stripped Dark Su ndicators d estrictive L	Mucky Mineral (S1) fleyed Matrix (S4) tedox (S5) d Matrix (S6) rface (S7) (LRR R, M of hydrophytic veg Layer (if observed): Type: Depth (inches):	ILRA 149	Redox Depre	<u>olog</u>	y must be	e present, unless distu Hydric Soil Present?	Iron-Manga Piedmont F Mesic Spod Red Parent Very Shallo Other (Expl urbed or problematic	nese Masses (F12) (LRR K, L, R) Floodplain Soils (F19) (MLRA 149B) lic (TA6) (MLRA 144A, 145, 149B) Material (F21) w Dark Surface (TF12) lain in Remarks) No∠
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Sandy N Sandy G Sandy R Stripped Dark Su ndicators d estrictive L	Aucky Mineral (S1) Aucky Mineral (S1) Sleyed Matrix (S4) tedox (S5) d Matrix (S6) rface (S7) (LRR R, N of hydrophytic veg Layer (if observed): Type: Depth (inches):	ILRA 149 etation a	Redox Depre PB) and wetland hydr None	ssior ology	y must be	e present, unless distu Hydric Soil Present?	Iron-Manga Piedmont F Mesic Spod Red Parent Very Shallo Other (Expl urbed or problematio	anese Masses (F12) (LRR K, L, R) Floodplain Soils (F19) (MLRA 149B) lic (TA6) (MLRA 144A, 145, 149B) Material (F21) w Dark Surface (TF12) ain in Remarks)
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Sandy M Sandy G Sandy R Stripped Dark Su hdicators estrictive L	Aucky Mineral (S1) Aucky Mineral (S1) Sleyed Matrix (S4) d Matrix (S6) rface (S7) (LRR R, M of hydrophytic veg Layer (if observed): Type: Depth (inches):	ILRA 149	Redox Depre	rolog	y must be	e present, unless distr Hydric Soil Present?	Iron-Manga Piedmont F Mesic Spod Red Parent Very Shallo Other (Expl urbed or problematic Yes	anese Masses (F12) (LRR K, L, R) Floodplain Soils (F19) (MLRA 149B) lic (TA6) (MLRA 144A, 145, 149B) Material (F21) w Dark Surface (TF12) lain in Remarks) No
Sandy M Sandy G Sandy R Stripped Dark Su ndicators estrictive L	Aucky Mineral (S1) Aucky Mineral (S1) Gleyed Matrix (S4) d Matrix (S6) rface (S7) (LRR R, M of hydrophytic veg Layer (if observed): Type: Depth (inches):	ILRA 149	Redox Depre	olog	y must be	e present, unless distu Hydric Soil Present?	Iron-Manga Piedmont F Mesic Spod Red Parent Very Shallo Other (Expl urbed or problematic	anese Masses (F12) (LRR K, L, R) Floodplain Soils (F19) (MLRA 149B) lic (TA6) (MLRA 144A, 145, 149B) Material (F21) w Dark Surface (TF12) lain in Remarks)
Sandy M Sandy G Sandy R Stripped Dark Su Strictive L	Aucky Mineral (S1) Aucky Mineral (S1) Gleyed Matrix (S4) d Matrix (S6) rface (S7) (LRR R, M of hydrophytic veg Layer (if observed): Type: Depth (inches):	ILRA 145	Redox Depre	ssior olog	y must be	e present, unless distu Hydric Soil Present?	Iron-Manga Piedmont F Mesic Spod Red Parent Very Shallo Other (Expl urbed or problematic	anese Masses (F12) (LRR K, L, R) Floodplain Soils (F19) (MLRA 149B) lic (TA6) (MLRA 144A, 145, 149B) Material (F21) w Dark Surface (TF12) lain in Remarks)
Sandy M Sandy G Sandy R Strippec Dark Su Strictive L	Aucky Mineral (S1) Aucky Mineral (S1) Sleyed Matrix (S4) tedox (S5) d Matrix (S6) rface (S7) (LRR R, N of hydrophytic veg Layer (if observed): Type: Depth (inches):	ILRA 149	Redox Depre	ssior olog	y must be	e present, unless distu Hydric Soil Present?	Iron-Manga Piedmont F Mesic Spod Red Parent Very Shallo Other (Expl urbed or problematic Yes	nese Masses (F12) (LRR K, L, R) loodplain Soils (F19) (MLRA 149B) lic (TA6) (MLRA 144A, 145, 149B) Material (F21) w Dark Surface (TF12) lain in Remarks) No∠
Sandy M Sandy G Sandy R Strippec Dark Su dicators estrictive I	Aucky Mineral (S1) Aucky Mineral (S1) Sleyed Matrix (S4) d Matrix (S6) rface (S7) (LRR R, N of hydrophytic veg Layer (if observed): Type: Depth (inches):	ILRA 149	Redox Depre PB) and wetland hydr None	ssior olog	y must be	e present, unless distu Hydric Soil Present?	Iron-Manga Piedmont F Mesic Spod Red Parent Very Shallo Other (Expl urbed or problematio Yes	inese Masses (F12) (LRR K, L, R) Floodplain Soils (F19) (MLRA 149B) lic (TA6) (MLRA 144A, 145, 149B) Material (F21) w Dark Surface (TF12) lain in Remarks) No
Sandy M Sandy G Sandy R Strippec Dark Su dicators i strictive I	Indication of hydri	ILRA 149	Redox Depre	ssior olog	y must be	e present, unless distu Hydric Soil Present?	Iron-Manga Piedmont F Mesic Spod Red Parent Very Shallo Other (Expl urbed or problematic Yes	anese Masses (F12) (LRR K, L, R) Floodplain Soils (F19) (MLRA 149B) lic (TA6) (MLRA 144A, 145, 149B) Material (F21) w Dark Surface (TF12) lain in Remarks) No
Sandy M Sandy G Sandy R Stripped Dark Su dicators estrictive I	indication of hydri	ILRA 149	Redox Depre	ssior olog	y must be	e present, unless distr Hydric Soil Present?	Iron-Manga Piedmont F Mesic Spod Red Parent Very Shallo Other (Expl urbed or problematic Yes	anese Masses (F12) (LRR K, L, R) Floodplain Soils (F19) (MLRA 149B) lic (TA6) (MLRA 144A, 145, 149B) Material (F21) w Dark Surface (TF12) lain in Remarks) No
Sandy M Sandy G Sandy R Stripped Dark Su ndicators estrictive I	indication of hydri	ILRA 149	Redox Depre	ssior olog	y must be	e present, unless distr Hydric Soil Present?	Iron-Manga Piedmont F Mesic Spod Red Parent Very Shallo Other (Expl urbed or problematic Yes	anese Masses (F12) (LRR K, L, R) Floodplain Soils (F19) (MLRA 149B) lic (TA6) (MLRA 144A, 145, 149B) Material (F21) w Dark Surface (TF12) lain in Remarks) No
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Sandy M Sandy G Sandy R Stripped Dark Su ndicators estrictive I	Aucky Mineral (S1) Aucky Mineral (S1) Sleyed Matrix (S4) d Matrix (S6) rface (S7) (LRR R, M of hydrophytic veg Layer (if observed): Type: Depth (inches):	tlRA 149	Redox Depre	ssior olog	y must be	e present, unless distu Hydric Soil Present?	Iron-Manga Piedmont F Mesic Spod Red Parent Very Shallo Other (Expl urbed or problematic Yes	anese Masses (F12) (LRR K, L, R) Floodplain Soils (F19) (MLRA 149B) lic (TA6) (MLRA 144A, 145, 149B) Material (F21) w Dark Surface (TF12) lain in Remarks) No
Sandy M Sandy G Sandy R Stripped Dark Su ndicators estrictive I	Aucky Mineral (S1) Aucky Mineral (S1) Eleyed Matrix (S4) Matrix (S6) rface (S7) (LRR R, M of hydrophytic veg Layer (if observed): Type: Depth (inches):	tl RA 149	Redox Depre	ssior olog	y must be	e present, unless distu Hydric Soil Present?	Iron-Manga Piedmont F Mesic Spod Red Parent Very Shallo Other (Expl urbed or problematic 	anese Masses (F12) (LRR K, L, R) loodplain Soils (F19) (MLRA 149B) lic (TA6) (MLRA 144A, 145, 149B) Material (F21) w Dark Surface (TF12) lain in Remarks) No∠


WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: High River		City/County: Florida, Montgo	omery County	Sampling Date: 20	17-July-19
Applicant/Owner: NextE	ra		State: New York	Sampling Point: W-A	RS-10; PEM-2
Investigator(s): Andrew S	Steiner, Adeline Belleshei	m Sec	tion, Township, Range:		
Landform (hillslope, terrace	e, etc.): Depression	Local relie	f (concave, convex, none):	Concave	Slope (%): 1-10
Subregion (LRR or MLRA):	LRR L	Lat	42.8994467 Long:	-74.1517974	Datum: WGS84
Soil Map Unit Name: Flu	ivaquents, loamy (FL)			NWI classificatio	n:
Are climatic/hydrologic con	ditions on the site typical	l for this time of year?	Yes 🟒 No (If n	o, explain in Remarks.)	
Are Vegetation, Soil	, or Hydrology	significantly disturbed?	Are "Normal Circums	stances" present?	Yes 🟒 No
Are Vegetation, Soil	, or Hydrology	naturally problematic?	(If needed, explain ar	ny answers in Remarks	.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes 🖌 No		
Hydric Soil Present?	Yes 🟒 No	Is the Sampled Area within a Wetland?	Yes 🟒 No
Wetland Hydrology Present?	Yes 🟒 No	If yes, optional Wetland Site ID:	W-ARS-10
Remarks: (Explain alternative procedures he	ere or in a separate report)	
TRC covertype is PEM. Area is wetland, all th	ree wetland parameters a	are present. Ditches/drain tiles observed	

Wetland Hydrology Indicators:				
Primary Indicators (minimum of or	e is required; check all	that apply)		Secondary Indicators (minimum of two required)
Surface Water (A1) _∕ High Water Table (A2) _∕ Saturation (A3) Water Marks (B1) Sediment Deposits (B2)	Water Aquat Marl I Hydro Oxidiz	Stained Leaves (B9) ic Fauna (B13) Deposits (B15) gen Sulfide Odor (C1) red Rhizospheres on Living R	coots (C3)	 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)
 Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Ima Sparsely Vegetated Concave Su 	Prese Recen Thin M agery (B7) Other rface (B8)	ils (C6)	 Stunted or Stressed Plants (D1) Geomorphic Position (D2) Shallow Aquitard (D3) Microtopographic Relief (D4) FAC-Neutral Test (D5) 	
Field Observations:				
Surface Water Present?	Yes No 🟒	Depth (inches):		
Water Table Present?	Yes 🟒 No	Depth (inches):	6	Wetland Hydrology Present? Yes 🟒 No
Saturation Present?	Yes 🟒 No	Depth (inches):	0	
(includes capillary fringe)				
Describe Recorded Data (stream g	auge, monitoring well, a	aerial photos, previous inspe	ections), if	available:
Remarks: A positive indication of wetland hyd	drology was observed (primary and secondary indic	ators wer	e present).

Sampling Point: W-ARS-10; PEM-2

Tree Stratum (Plot size: _ 30 ft _)	Absolute	Dominant	Indicator	Dominance Test works	heet:		
	% Cover	Species?	Status	Number of Dominant S	pecies That	5	(A)
1. <u>Acer negundo</u>	10	Yes	FAC	Total Number of Domi	Dant Spacias		
2				Across All Strata	iant species	5	(B)
3				Percent of Dominant S	necies That		
4				Are OBL, FACW, or FAC	:	100	(A/B)
5		<u> </u>		Prevalence Index work	sheet:		
6				Total % Cover	of:	Multiply	By:
7				OBL species	55	x 1 =	55
	10	= Total Cov	er	FACW species	60	x 2 =	120
Sapling/Shrub Stratum (Plot size: <u>15 ft</u>)				FAC species	55	x 3 =	165
1. <i>Frangula alnus</i>	15	Yes	FAC	FACU species	0	x 4 =	0
2				UPL species	0	x 5 =	0
3				Column Totals	170	(A)	340 (B)
4				Prevalence Ir	dex = B/A =	2 -	0.0 (0)
5		. <u> </u>					
6				Hydropnytic Vegetatio	1 Indicators:	(
7				1- Rapid Test for h	Hydrophytic v	regetation	
	15	= Total Cov	rer	2 - Dominance re	SUIS >50%		
<u>Herb Stratum</u> (Plot size: <u>5 ft</u>)		_		3 - Prevalence inc	$100 \text{ IS} \leq 3.0^{\circ}$	(Dura dala	
1. Impatiens capensis	60	Yes	FACW	4 - Morphological	Adaptations	(Provide	supporting
2. Typha latifolia	55	Yes	OBL		a separate si	tation1 (Ex	(niclay
3. Euthamia graminifolia	10	No	FAC	11ndicators of hydris so	il and wotlan		(pidili) av must bo
4.				nresent unless disturb	ed or proble	u Hyurolo; matic	gy must be
5.				Definitions of Vegetation	n Strata	natic	
6				Tree Woody plants 3	in (7.6 cm) or	r moro in (diamotor at
7.				breast height (DBH), re	gardless of h	eight.	alameter at
8				Sanling/shrub - Woody	v nlants less ti	han 3 in T)BH and
9				greater than or equal t	o 3.28 ft (1 m) tall.	birana
10				Herb – All herbaceous	(non-woody)	, plants, reg	gardless of
11				size, and woody plants	less than 3.2	8 ft tall.	
12		<u> </u>		Woody vines – All wood	dy vines great	ter than 3.	.28 ft in
12	125	- Total Cou		height.			
Weedy Vine Stratum (Plat size) 20 ft)	125	_ 10tal COV		Hydrophytic Vegetatio	n Present?	res 🖌 N	lo
Woody vine stratum (Plot size: <u>30 it</u>)	20	Vee	FAC	J			
	20	res	FAC				
2.		<u> </u>					
3							
4							
	20	_= Total Cov	er				
Remarks: (Include photo numbers here or on a separ	ate sheet.)						

Sampling Point: W-ARS-10; PEM-2

(Inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Tex	xture	Remarks
0 - 3	2.5Y 3/2	100					Fine Sa	ndy Loam	
3 - 8	2.5Y 4/2	82	10YR 4/6	15	С	М	Clay	/ Loam	
8 - 16	2.5Y 4/2	90	10YR 4/6	10	C	Μ	Sand	ly Loam	
				—		<u> </u>			
<u> </u>									
<u> </u>						·			
				_					
						<u> </u>			
				—					
						·			
туре: С = (Concentration, D =	Depleti	on, RM = Reduced	Matr	ix, MS =	Masked	Sand Grains. ² L	Location: PL = Pore Li	ning, M = Matrix.
ydric Soil	Indicators:							Indicators for Prob	lematic Hydric Soils ³ :
Histoso	l (A1)		Polyvalue Be	low S	urface (S	8) (LRR R	, MLRA 149B)	2 cm Muck (A10	0) (LRR K, L, MLRA 149B)
Black H	pipedon (AZ) istic (A3)		I nin Dark Su	riace v Min	(59) (LKK eral (E1)	(IRRKI	(149B))	Coast Prairie Re	edox (A16) (LRR K, L, R)
Hvdrog	en Sulfide (A4)		Loamy Gleve	d Ma	trix (F2)		,	5 cm Mucky Pe	at or Peat (S3) (LRR K, L, R)
Stratifie	ed Lavers (A5)		✓ Depleted Ma	trix (F	-3)			Dark Surface (S	57) (LRR K, L)
Deplete	d Below Dark Surf	ace (A11) Redox Dark S	Surfac	.e (F6)				w Surface (S8) (LRR K, L)
_ Thick D	ark Surface (A12)		Depleted Dar	rk Sur	face (F7)				
_ Sandy N	Mucky Mineral (S1)		Redox Depre	ession	ıs (F8)			Iron-Manganes	e Masses (F12) (LRR K, L, R)
								Pleamont Flood	0 DIAIN SOUS (F19) (MI RA 149B)
Sandy (Gleyed Matrix (S4)							Mania Crandia (T	
Sandy (Sandy F	Gleyed Matrix (S4) Redox (S5)							Mesic Spodic (T	FA6) (MLRA 144A, 145, 149B)
Sandy (Sandy F Strippe	Gleyed Matrix (S4) Redox (S5) d Matrix (S6)							Mesic Spodic (T Red Parent Mar	FA6) (MLRA 144A, 145, 149B) terial (F21)
Sandy (Sandy F Strippe Dark Su	Gleyed Matrix (S4) Redox (S5) d Matrix (S6) ırface (S7) (LRR R, I	MLRA 14	9B)					Mesic Spodic (T Red Parent Mar Very Shallow D Other (Explain	FA6) (MLRA 144A, 145, 149B) terial (F21) ark Surface (TF12) in Remarks)
Sandy (Sandy F Strippe Dark Su Indicators	Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) (LRR R, I of hydrophytic vej	MLRA 14	9B) and wetland hydr	rology	/ must be	e present	t, unless disturbe	Mesic Spodic (T Red Parent Mar Very Shallow D Other (Explain ed or problematic.	(A6) (MLRA 144A, 145, 149B) terial (F21) ark Surface (TF12) in Remarks)
Sandy (Sandy F Strippe Dark Su Indicators Restrictive	Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) (LRR R, l <u>of hydrophytic ve</u> Layer (if observed)	MLRA 14 getation):	9B) and wetland hydr	rology	/ must be	e present	t, unless disturbe	Mesic Spodic (T Red Parent Mar Very Shallow D Other (Explain ed or problematic.	(A6) (MLRA 144A, 145, 149B) terial (F21) ark Surface (TF12) in Remarks)
Sandy (Sandy F Strippe Dark Su ndicators estrictive	Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) (LRR R, l of hydrophytic ve _t Layer (if observed) Type:	MLRA 14 getation):	9B) and wetland hydr None	rology	/ must be	e present	t, unless disturbe Soil Present?	Mesic Spodic (T Red Parent Ma Very Shallow D Other (Explain ed or problematic.	(rA6) (MLRA 144A, 145, 149B) terial (F21) ark Surface (TF12) in Remarks) //es _∠_ No
Sandy (Sandy F Strippe Dark Su ndicators estrictive	Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) (LRR R, I <u>of hydrophytic ver</u> Layer (if observed) Type: Depth (inches):	MLRA 14 getation):	9B) and wetland hydr None	rology	/ must be	e present Hydric	t, unless disturb Soil Present?	Mesic Spodic (T Red Parent Mai Very Shallow D Other (Explain ed or problematic.	<pre>//A6) (MLRA 144A, 145, 149B) terial (F21) ark Surface (TF12) in Remarks) //es/_ No</pre>
Sandy (Sandy F Strippe Dark Su ndicators estrictive emarks:	Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) (LRR R, l <u>of hydrophytic ver</u> <u>Layer (if observed)</u> Type: <u>Depth (inches):</u>	MLRA 14 getation):	9B) and wetland hydr None	rology	/ must be	e present Hydric	t, unless disturb Soil Present?	Mesic Spodic (T Red Parent Mai Very Shallow D Other (Explain ed or problematic.	<pre>//A6) (MLRA 144A, 145, 149B) terial (F21) ark Surface (TF12) in Remarks) //es/_ No</pre>
Sandy (Sandy F Strippe Dark Su ndicators estrictive emarks:	Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) (LRR R, l of hydrophytic ve <u>j</u> Layer (if observed) Type: Depth (inches):	MLRA 14 getation): 	9B) and wetland hydr None	rology	y must be	e present	t, unless disturb Soil Present?	Mesic Spodic (T Red Parent Mar Very Shallow D Other (Explain ed or problematic.	<pre>//A6) (MLRA 144A, 145, 149B) terial (F21) ark Surface (TF12) in Remarks) //es/_ No</pre>
Sandy (Sandy F Strippe Dark Su ndicators estrictive emarks:	Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) (LRR R, I of hydrophytic ver Layer (if observed) Type: Depth (inches):	MLRA 14 getation): 	9B) and wetland hydr None	rology	y must be	e present	t, unless disturbo Soil Present?	Mesic Spodic (T Red Parent Mar Very Shallow D Other (Explain ed or problematic. Y	<pre>//A6) (MLRA 144A, 145, 149B) terial (F21) ark Surface (TF12) in Remarks) //es/_ No</pre>
Sandy (Sandy F Strippe Dark Su ndicators estrictive emarks:	Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) (LRR R, I of hydrophytic ver Layer (if observed) Type: Depth (inches):	MLRA 14 getation :: 	9B) and wetland hydr None	rology	y must be	e present	t, unless disturb Soil Present?	Mesic Spodic (T Red Parent Mar Very Shallow D Other (Explain ed or problematic. Y	<pre>//A6) (MLRA 144A, 145, 149B) terial (F21) ark Surface (TF12) in Remarks) //es/_ No</pre>
Sandy (Sandy F Strippe Dark Su ndicators estrictive emarks:	Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) (LRR R, I of hydrophytic ver Layer (if observed) Type: Depth (inches):	MLRA 14 getation):	9B) and wetland hydr None	rology	y must be	e present	t, unless disturb Soil Present?	Mesic Spodic (T Red Parent Mar Very Shallow D Other (Explain ed or problematic.	/es No
Sandy (Sandy F Strippe Dark Su ndicators estrictive emarks:	Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) (LRR R, I of hydrophytic ver Layer (if observed) Type: Depth (inches):	MLRA 14 getation):	9B) and wetland hydr None	rolog	/ must be	e present Hydric	t, unless disturbo Soil Present?	Mesic Spodic (T Red Parent Mar Very Shallow D Other (Explain ed or problematic.	/G6) (MLRA 144A, 145, 149B) terial (F21) ark Surface (TF12) in Remarks) //es/ No
Sandy (Sandy F Strippe Dark Su ndicators estrictive emarks:	Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) (LRR R, I of hydrophytic ver Layer (if observed) Type: Depth (inches):	MLRA 14 getation :	9B) and wetland hydr None	rolog	/ must bo	e present Hydric	t, unless disturbo Soil Present?	Mesic Spodic (T Red Parent Mar Very Shallow D Other (Explain ed or problematic.	/G6) (MLRA 144A, 145, 149B) terial (F21) ark Surface (TF12) in Remarks) /es/ No
Sandy (Sandy F Strippe Dark Su ndicators estrictive emarks:	Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) (LRR R, I of hydrophytic ver Layer (if observed) Type: Depth (inches):	MLRA 14 getation :	9B) and wetland hydr None	rolog	/ must be	e present Hydric	t, unless disturbe Soil Present?	Mesic Spodic (T Red Parent Mar Very Shallow D Other (Explain ed or problematic.	/G6) (MLRA 144A, 145, 149B) terial (F21) ark Surface (TF12) in Remarks) /es/ No
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Sandy (Sandy F Strippe Dark Su ndicators estrictive	Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) (LRR R, l of hydrophytic ve Layer (if observed) Type: Depth (inches):	MLRA 14 getation :	9B) and wetland hydr None	rolog	/ must be	e present Hydric	t, unless disturb Soil Present?	Mesic Spodic (T Red Parent Mar Very Shallow D Other (Explain ed or problematic. Y	<pre>//A6) (MLRA 144A, 145, 149B) terial (F21) ark Surface (TF12) in Remarks) //es No</pre>
Sandy (Sandy F Strippe Dark Su ndicators estrictive emarks:	Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) (LRR R, I of hydrophytic ver Layer (if observed) Type: Depth (inches):	MLRA 14 getation :	9B) and wetland hydr None		y must be	e present	t, unless disturb Soil Present?	Mesic Spodic (T Red Parent Mar Very Shallow D Other (Explain ed or problematic. Y	<pre>//A6) (MLRA 144A, 145, 149B) terial (F21) ark Surface (TF12) in Remarks) //es/_ No</pre>
Sandy (Sandy F Strippe Dark Su ndicators estrictive emarks:	Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) (LRR R, I <u>of hydrophytic ver</u> Layer (if observed) Type: <u>Depth (inches):</u>	MLRA 14 getation :	9B) and wetland hydr None	rolog	y must be	e present	t, unless disturb Soil Present?	Mesic Spodic (T Red Parent Mar Very Shallow D Other (Explain ed or problematic.	/G6) (MLRA 144A, 145, 149B) terial (F21) ark Surface (TF12) in Remarks) //es/_ No
Sandy (Sandy F Strippe Dark Su ndicators estrictive emarks:	Sleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) (LRR R, I of hydrophytic ver Layer (if observed) Type: 	MLRA 14 getation ;	9B) and wetland hydr None	rolog	y must be	e present Hydric	t, unless disturbo Soil Present?	Mesic Spodic (T Red Parent Mar Very Shallow D Other (Explain ed or problematic.	/A6) (MLRA 144A, 145, 149B) terial (F21) ark Surface (TF12) in Remarks) //es/_ No
Sandy (Sandy F Strippe Dark Su Indicators estrictive	Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) (LRR R, I of hydrophytic ver Layer (if observed) Type: Depth (inches):	MLRA 14 getation :	9B) and wetland hydr None	rolog	/ must be	e present Hydric	t, unless disturbo	Mesic Spodic (T Red Parent Mar Very Shallow D Other (Explain ed or problematic.	<pre>//A6) (MLRA 144A, 145, 149B) terial (F21) ark Surface (TF12) in Remarks) //es/_ No</pre>
Sandy (Sandy F Strippe Dark Su Indicators estrictive	Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) (LRR R, I of hydrophytic ver Layer (if observed) Type: Depth (inches):	MLRA 14 getation :	9B) and wetland hydr None	rology	/ must be	e present	t, unless disturbo Soil Present?	Mesic Spodic (T Red Parent Mar Very Shallow D Other (Explain ed or problematic.	<pre>/// CAS (MLRA 144A, 145, 149B) terial (F21) ark Surface (TF12) in Remarks) // es/_ No</pre>
Sandy (Sandy F Strippe Dark Su Indicators Restrictive	Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) (LRR R, I of hydrophytic ver Layer (if observed) Type: 	MLRA 14 getation :	9B) and wetland hydr None	rology	/ must be	e present	t, unless disturb Soil Present?	Mesic Spodic (T Red Parent Mai Very Shallow D Other (Explain ed or problematic. Y	<pre>// CA6) (MLRA 144A, 145, 149B) terial (F21) ark Surface (TF12) in Remarks) // es _/_ No</pre>
Sandy (Sandy F Strippe Dark Su Indicators testrictive	Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) (LRR R, I of hydrophytic ver Layer (if observed) Type: Depth (inches):	MLRA 14 getation :	9B) and wetland hydr None	rology	/ must be	e present	t, unless disturbe Soil Present?	Mesic Spodic (T Red Parent Mai Very Shallow D Other (Explain ed or problematic. Y	<pre>//A6) (MLRA 144A, 145, 149B) terial (F21) ark Surface (TF12) in Remarks) //es/_ No</pre>
Sandy (Sandy F Strippe Dark Su ndicators estrictive emarks:	Sleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) (LRR R, I of hydrophytic ve Layer (if observed) Type: Depth (inches):	MLRA 14 getation ;	9B) and wetland hydr None	rology	/ must be	e present	t, unless disturbe Soil Present?	Mesic Spodic (T Red Parent Mar Very Shallow D Other (Explain ed or problematic.	<pre>//A6) (MLRA 144A, 145, 149B) terial (F21) ark Surface (TF12) in Remarks) //es/_ No</pre>



WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: High River	City/County: Florida, Montgomery County	Sampling Date: 2017-July-19
Applicant/Owner: NextEra	State: New York	Sampling Point: W-ARS-10; PFO-1
Investigator(s): Andrew Steiner, Adeline Belleshe	m Section, Township, Range:	
Landform (hillslope, terrace, etc.): Depression	Local relief (concave, convex, none)	: Concave Slope (%): 1-10
Subregion (LRR or MLRA): LRR L	Lat: 42.9015159 Long	: -74.1522331 Datum: WGS84
Soil Map Unit Name: Darien silt loam, 3 to 8 per	ent slopes (DaB)	NWI classification:
Are climatic/hydrologic conditions on the site typica	l for this time of year? Yes _✔_ No (If r	io, explain in Remarks.)
Are Vegetation, Soil, or Hydrology	significantly disturbed? Are "Normal Circum:	stances" present? Yes 🟒 No
Are Vegetation, Soil, or Hydrology	naturally problematic? (If needed, explain a	ny answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes _🖌 No		
Hydric Soil Present?	Yes 🟒 No	Is the Sampled Area within a Wetland?	Yes 🯒 No _
Wetland Hydrology Present?	Yes 🟒 No	If yes, optional Wetland Site ID:	W-ARS-10
Remarks: (Explain alternative procedures	here or in a separate repoi	rt)	
TRC covertype is PFO. Area is wetland, all t	hree wetland parameters	are present. drainage with added wetlands	

Wetland Hydrology Indicators:		
Primary Indicators (minimum of one is	Secondary Indicators (minimum of two required)	
 Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) 	 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) 	
Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery Sparsely Vegetated Concave Surface	 Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Thin Muck Surface (C7) y (B7) Other (Explain in Remarks) e (B8) 	 Stunted or Stressed Plants (D1) ✓ Geomorphic Position (D2) Shallow Aquitard (D3) Microtopographic Relief (D4) FAC-Neutral Test (D5)
Field Observations:		
Surface Water Present? Yes	s No _	
Water Table Present? Yes	s _✔_ No Depth (inches): 2	Wetland Hydrology Present? Yes 🟒 No
Saturation Present? Yes	s 🖌 No Depth (inches): 0	
(includes capillary fringe)		
Describe Recorded Data (stream gauge	e, monitoring well, aerial photos, previous inspections), if a	vailable:
Remarks:		
A positive indication of wetland hydrolo (primary and secondary indicators were	ogy was observed (at least two secondary indicators). A po e present).	sitive indication of wetland hydrology was observed

Sampling Point: W-ARS-10; PFO-1

				Densis and Testandal			
Tree Stratum (Plot size: <u>30 ft</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Number of Dominant S	neet: inecies That		
1 Tsuga canadensis	20	Ves	FACIL	Are OBL, FACW, or FAC:		4	(A)
2. Tilia americana	10	Yes	FACU	Total Number of Domir	ant Species	6	(D)
3 Betula populifolia	10	Yes	FAC	Across All Strata:		0	(B)
4.	10		1710	Percent of Dominant Sp	pecies That	66.7	(A/B)
5.		·		Are OBL, FACW, or FAC:			(/ 0 0)
6.		· ·		Prevalence Index works	sheet:		
7.		· ·		Total % Cover	<u>of:</u>	Multiply	<u>By:</u>
	40	= Total Cov	er	OBL species	10	x 1 =	10
Sapling/Shrub Stratum (Plot size: 15 ft)		-		FACW species	87	x 2 =	174
1. Salix nigra	10	Yes	OBL	FAC species	30	x 3 =	90
2. Acer rubrum	10	Yes	FAC	FACU species	33	x 4 =	132
3			1710	UPL species	0	x 5 =	0
				Column Totals	160	(A)	406 (B)
т Г		·		Prevalence In	idex = B/A =	2.5	
S		·		Hydrophytic Vegetation	Indicators:		
o				1- Rapid Test for H	lydrophytic V	egetation/	
/	20	- Total Cav		2 - Dominance Tes	st is >50%		
Harb Stratum (Diat size) Eft	20	- 10tal COV	er	3 - Prevalence Ind	ex is $\leq 3.0^1$		
<u>Herb Stratum</u> (Plot Size. <u>_5 It</u>)	75	Voc		4 - Morphological	Adaptations	(Provide :	supporting
1. Impatiens caperisis	10			data in Remarks or on a	a separate sh	leet)	
2. Onociea sensionis	10		FACW	Problematic Hydro	ophytic Vege	tation ¹ (Ex	plain)
3. Parathelypteris noveboracensis			FAC	¹ Indicators of hydric so	il and wetlan	d hydrolog	gy must be
4. Solidago canadensis		NO	FACU	present, unless disturb	ed or problei	matic	
5. Symphyotrichum novae-angliae	2	NO	FACW	Definitions of Vegetatio	on Strata:		
6.				Tree – Woody plants 3 i	n. (7.6 cm) oi	r more in c	liameter at
/				breast height (DBH), reg	gardless of h	eight.	
8				Sapling/shrub - Woody	plants less t	han 3 in. Ľ	BH and
9					5.20 IL (I III) ldll. planta raa	rardlass of
10				size and woody plants	loss than 3.2	piants, reg 8 ft tall	aruless of
11				Woody vines - All wood	ly vines great	tor than 3	28 ft in
12				height.	iy vines great	ter than 5.	201111
	100	= Total Cov	er		- D	(())	
Woody Vine Stratum (Plot size: <u>30 ft</u>)				Hydrophytic vegetation	n Present?	res N	0
1							
2							
3							
4							
	0	= Total Cov	er				
Remarks: (Include photo numbers here or on a separat	e sheet.)						
······································							
A positive indication of hydrophytic vegetation was obs	erved (>5()% of domin	ant species	indexed as ORL FACW o	r FAC)		
	c cu (-)(and species		, , .		

	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture		Remarks
) - 16	2.5Y 4/2	90	2.5Y 5/4	10	С		Clay Loan	n	
		_		·					
				·					
		_		·					
pe: C = Co	oncentration, D = [Depleti	on, RM = Reduce	d Mat	rix, MS =	Masked Sa	ind Grains. ² Lo	ocation: PL	_ = Pore Lining, M = Matrix.
Histosol (dicators:		Polyvalue B	مامی و	Surface (S	(I PP P		Indicator	's for Problematic Hydric Soils ³ :
Histic Epi Black His Hydrogen Stratified Depleted Thick Dan Sandy Mi Sandy Gl Sandy Re	pedon (A2) tic (A3) n Sulfide (A4) Layers (A5) Below Dark Surfa rk Surface (A12) ucky Mineral (S1) eyed Matrix (S4)	ce (A1	Thin Dark Su Loamy Muck Loamy Gleye Depleted Ma 1)Redox Dark Depleted Da Redox Depre	urface ky Mir ed Ma atrix (Surfa ark Su essior	(S9) (LRF neral (F1) htrix (F2) F3) ce (F6) rface (F7) ns (F8)	(LRR K, L)	49B)	2 cm Coas: 5 cm Dark Polyv Thin Iron-I Piedr Mesio	Muck (ATO) (LRR K, L, MLRA 1496) t Prairie Redox (A16) (LRR K, L, R) Mucky Peat or Peat (S3) (LRR K, L, R) Surface (S7) (LRR K, L) value Below Surface (S8) (LRR K, L) Dark Surface (S9) (LRR K, L) Manganese Masses (F12) (LRR K, L, R) nont Floodplain Soils (F19) (MLRA 149B) c Spodic (TA6) (MLRA 144A, 145, 149B)
_ Stripped _ Dark Sur	Matrix (S6) face (S7) (LRR R, M	LRA 14	19B)	Irolog	v must h	e present	unless disturbe	Red F Very Othe	Parent Material (F21) Shallow Dark Surface (TF12) r (Explain in Remarks) ematic
_ Stripped _ Dark Sur dicators o strictive La	Matrix (S6) face (S7) (LRR R, M <u>f hydrophytic veg</u> e ayer (if observed):	LRA 14	19B) and wetland hyc	Irolog	y must b	e present,	unless disturbe	Red F Very Othe d or proble	Parent Material (F21) Shallow Dark Surface (TF12) r (Explain in Remarks) ematic.
_Stripped _Dark Sur dicators o strictive La	Matrix (S6) face (S7) (LRR R, M <u>f hydrophytic veg</u> ayer (if observed): Type:	LRA 14	19B) and wetland hyc None	Irolog	y must b	e present, Hydric Sc	unless disturbe il Present?	Red F Very Othe d or proble	Parent Material (F21) Shallow Dark Surface (TF12) r (Explain in Remarks) ematic. Yes _∠_ No
Stripped Dark Sur hdicators o http://www.strictive La http://www.strictive http://wwww.strictive http://wwww.strictive http://wwww.strictive http://wwww.strictive http://wwww.strictive http://wwww.strictive http://wwwwwwwwwwwwwwwwwwwwwwwwwwwwwwwwww	Matrix (S6) face (S7) (LRR R, M <u>f hydrophytic veg</u> r ayer (if observed): Type: Depth (inches):	LRA 14	19B) and wetland hyc None	Irolog	y must b	e present, Hydric Sc	unless disturbe il Present?	Red F Very Othe d or probl	Parent Material (F21) Shallow Dark Surface (TF12) r (Explain in Remarks) ematic. Yes∕ No

Photo of Sample Plot



WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: High River	r	C	ity/County: Florida	, Montgo	mery		Sampling Date	: 2017-July-19
Applicant/Owner: Ne	extEra				State:	New York	Sampling Point:	W-ARS-10; UPL-2
Investigator(s): Andre	ew Steiner, Ad	leline Bellesheim		Sect	tion, Towns	hip, Range:		
Landform (hillslope, ter	race, etc.):	Hillslope	Lo	cal relief	(concave, o	convex, none)	None	Slope (%): 1-10
Subregion (LRR or MLR	A): LRR L			Lat:	42.888423	38 Long	-74.1398809	Datum: WGS84
Soil Map Unit Name:	Fluvaquents,	loamy (FL)					NWI classifi	cation:
Are climatic/hydrologic	conditions on	the site typical fo	or this time of year?	?	Yes 🖌	_ No (If n	o, explain in Rema	arks.)
Are Vegetation,	Soil,	or Hydrology	_ significantly distu	rbed?	Are "No	ormal Circum	stances" present?	Yes 🟒 No
Are Vegetation,	Soil,	or Hydrology	_ naturally problem	natic?	(If need	ded, explain a	ny answers in Rem	narks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes No 🟒		
Hydric Soil Present?	Yes No 🟒	Is the Sampled Area within a Wetland?	Yes No 🟒
Wetland Hydrology Present?	Yes No	lf yes, optional Wetland Site ID:	
Remarks: (Explain alternative procedures her	e or in a separate report)	
TRC covertype is UPL. Area is upland, not all t	hree wetland parameter	s are present. bean field	

Wetland Hydrology Indicators:					
Primary Indicators (minimum of on	e is required; check all that apply)	Secondary Indicators (minimum of two required)			
Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2)	Water-Stained Leaves (B9) Aquatic Fauna (B13) Marl Deposits (B15) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Roots (C3)	 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) 			
Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Ima Sparsely Vegetated Concave Sur	 Stunted or Stressed Plants (D1) Geomorphic Position (D2) Shallow Aquitard (D3) Microtopographic Relief (D4) FAC-Neutral Test (D5) 				
Field Observations:					
Surface Water Present?	Yes No 🟒 Depth (inches):				
Water Table Present?	Yes No Depth (inches):	Wetland Hydrology Present? Yes No			
Saturation Present?	Yes No _				
(includes capillary fringe)					
Describe Recorded Data (stream ga	uge, monitoring well, aerial photos, previous inspections), if	available:			
Remarks:					
No positive indication of wetland hy	/drology was observed.				

Sampling Point: W-ARS-10; UPL-2

	Absolute	Dominant	ndicator	Dominance Test works	heet:		
Tree Stratum (Plot size: <u>30 ft</u>)	% Cover	Species?	Status	Number of Dominant S	Species That	•	(4)
1.		<u> </u>		Are OBL, FACW, or FAC	:	0	(A)
2.				Total Number of Domi	hant Species	1	(B)
3.				Across All Strata:			(6)
4.				Percent of Dominant S	pecies That	0	(A/B)
5.		·		Are OBL, FACW, or FAC	:		
6.		· ·		Prevalence Index work	sheet:		
7.		· ·		Total % Cover	<u>of:</u>	<u>Multiply</u>	<u>By:</u>
···	0	= Total Cover		OBL species	0	x 1 =	0
Sanling/Shrub Stratum (Plot size: 15 ft)				FACW species	0	x 2 =	0
1				FAC species	0	x 3 =	0
2				FACU species	0	x 4 =	0
2				UPL species	50	x 5 =	250
3				Column Totals	50	(A)	250 (B)
4				Prevalence Ir	ndex = B/A =	5	
с		<u> </u>		Hydrophytic Vegetatio	n Indicators:		
o				1- Rapid Test for I	- - Hydrophytic V	/egetatior	1
7		Tabal Car		2 - Dominance Te	st is > 50%		
	0	= lotal Cover		3 - Prevalence Inc	lex is $\leq 3.0^1$		
Herb Stratum (Plot size: <u>5 ft</u>)	50			4 - Morphological	Adaptations	(Provide	supporting
1. Glycine max	50	Yes	UPL	data in Remarks or on	a separate sh	neet)	
2.				Problematic Hydr	ophytic Vege	tation ¹ (E>	(plain)
3		<u> </u>		¹ Indicators of hydric so	il and wetlan	d hydrolo	gy must be
4				present, unless disturb	ed or proble	matic	
5				Definitions of Vegetation	on Strata:		
6				Tree – Woody plants 3	in. (7.6 cm) oı	r more in	diameter at
7				breast height (DBH), re	gardless of h	eight.	
8				Sapling/shrub – Woody	/ plants less t	han 3 in. I	OBH and
9				greater than or equal t	o 3.28 ft (1 m) tall.	
10				Herb – All herbaceous	(non-woody)	plants, re	gardless of
11				size, and woody plants	less than 3.2	8 ft tall.	20.6
12				Woody vines – All wood	dy vines great	ter than 3	.28 ft in
	50	= Total Cover		neight.			<u> </u>
Woody Vine Stratum (Plot size: <u>30 ft</u>)				Hydrophytic Vegetatio	n Present?	/es N	No _
1							
2.							
3.							
4.							
	0	= Total Cover	-				
Remarks: (Include photo numbers here or on a separate	e sheet.)						
Active agricultural field							

Sampling Point: W-ARS-10; UPL-2

	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Text	ure	Remarks
0 - 16	10YR 3/3	100		·			Silty Cla	y Loam	
				— ·					
				<u> </u>					
				— ·					
				— ·					
	oncontration D = I			Matri			ad Craine 21	cation: DL = Dara L	ining M - Matrix
lydric Soil I	Indicators:	Pepietio	n, RIVI = Reduced	watri	IX, IVIS = I	viasked sa	nd Grains. ² LO	Indicators for Pro	blematic Hydric Soils ³ :
Histosol	(A1)		Polyvalue Bel	ow Su	urface (S	B) (LRR R, I	ILRA 149B)	2 cm Muck (A	10) (LRR K, L, MLRA 149B)
Histic Ep	pipedon (A2)		Thin Dark Sur	face ((S9) (LRR	R, MLRA 1	49B)	Coast Prairie F	Redox (A16) (LRR K, L, R)
Black Hi	stic (A3)		Loamy Mucky	Mine Mot	eral (F1) (riv (E2)	LRR K, L)		5 cm Mucky P	eat or Peat (S3) (LRR K, L, R)
Stratifie	d Lavers (A5)		Depleted Mat	rix (F	11X (FZ) 3)			Dark Surface (S7) (LRR K, L)
Deplete	d Below Dark Surfa	ce (A11)	Redox Dark S	urface	e (F6)			Polyvalue Belo	ow Surface (S8) (LRR K, L)
Thick Da	ark Surface (A12)		Depleted Dar	k Surf	face (F7)			Thin Dark Sur	face (S9) (LRR K, L)
Sandy N	lucky Mineral (S1)		Redox Depre	ssions	s (F8)			Iron-Mangane	se Masses (F12) (LRR K, L, R)
Sandy G	ileyed Matrix (S4)							Pleamont Floo	
Sandy R	edox (S5)								1A6) (MILKA 144A, 145, 149B)
Stripped	d Matrix (S6)							Red Parent Ma	aleriai (F2T) Dark Surfaco (TE12)
Dark Su	rface (S7) (LRR R, N	LRA 149	В)					Other (Explain	in Remarks)
Indicators	of hydrophytic veg	etation a	nd wetland hydr	ology	must be	present, u	ınless disturbe	d or problematic.	
Restrictive L	_ayer (if observed):								
	Туре:		None			Hydric So	il Present?	١	/es No 🟒
	Depth (inches):								
≀emarks:									
lo positive	indication of hydri	soils wa	as observed.						
No positive	indication of hydri	soils wa	as observed.						
No positive	indication of hydri	c soils wa	as observed.						
No positive	indication of hydri	c soils w	as observed.						
√o positive	indication of hydri	c soils w	as observed.						
√o positive	indication of hydri	c soils wa	as observed.						
lo positive	indication of hydri	soils wa	as observed.						
lo positive	indication of hydri	soils wa	as observed.						



WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: High River		Cit	ty/County: Fl	lorida, Mor	ntgor	mery Coun	ty	Sampling Date	: 2017-July-19
Applicant/Owner: Nex	xtEra					State:	New York	Sampling Point:	W-ARS-11; PEM-1
Investigator(s): Andrew Steiner, Adeline Bellesheim Section, Township, Range:									
Landform (hillslope, terr	race, etc.):	Swale		Local re	elief	(concave, c	onvex, none)	: Concave	Slope (%): 1-10
Subregion (LRR or MLRA): LRR L			I	Lat:	42.900443	8 Long	: -74.1570262	Datum: WGS84
Soil Map Unit Name:	Illion silt loam	, 0 to 3 percent sl	lopes (IIA)					NWI classif	ication:
Are climatic/hydrologic o	conditions on	the site typical fo	r this time of	year?		Yes 🖌	No (If r	no, explain in Rema	arks.)
Are Vegetation, S Are Vegetation, S	Soil, o Soil, o	r Hydrology r Hydrology	_significantly _naturally pro	disturbed oblematic?	?	Are "No (If need	ormal Circum ed, explain a	stances" present? ny answers in Ren	Yes 🟒 No narks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes 🟒 No							
Hydric Soil Present?	Yes 🟒 No	Is the Sampled Area within a Wetland?	Yes 🯒 No _					
Wetland Hydrology Present?	Yes 🟒 No	If yes, optional Wetland Site ID:	W-ARS-11					
Remarks: (Explain alternative procedures here or in a separate report)								
TRC covertype is PEM. Area is wetland, all th	ree wetland parameters a	ire present. swale						

Wetland Hydrology Indicators:					
Primary Indicators (minimum of on	e is required; check all th	nat apply)		Secondary Indicators (minimum of	<u>two required)</u>
Surface Water (A1) Water-Stained Leaves (B9) High Water Table (A2) Aquatic Fauna (B13) Saturation (A3) Marl Deposits (B15) Water Marks (B1) Hydrogen Sulfide Odor (C1) Sediment Deposits (B2) Oxidized Rhizospheres on Living Rows				Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Image	gery (C9)
 Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Ima Sparsely Vegetated Concave Su 	Presend Recent Thin Mu agery (B7) Other (B rface (B8)	 Stunted or Stressed Plants (D1) Geomorphic Position (D2) Shallow Aquitard (D3) Microtopographic Relief (D4) FAC-Neutral Test (D5) 			
Field Observations:					
Surface Water Present?	Yes No 🟒	Depth (inches):			
Water Table Present?	Yes 🟒 No	Depth (inches):	5	Wetland Hydrology Present?	Yes 🟒 No
Saturation Present?	Yes 🟒 No	Depth (inches):	0		
(includes capillary fringe)					
Describe Recorded Data (stream ga	auge, monitoring well, ae	rial photos, previous inspe	ections), if	available:	
Remarks:					
A positive indication of wetland hyd	drology was observed (pi	rimary and secondary indic	cators wer	e present).	

Sampling Point: W-ARS-11; PEM-1

Status ,	Are OBL, FACW, or FAC: Total Number of Dominant Sp Are OBL, FACW, or FAC: Total Number of Dominant Sp Are OBL, FACW, or FAC: Prevalence Index works <u>Total % Cover of</u> OBL species FACW species FACW species FACU species Column Totals <u>Prevalence Inde</u> <u>Prevalence Inde</u> <u>Column Totals</u> <u>Prevalence Inde</u> <u>Column Totals</u> <u>Column Tot</u>	ant Species becies That heet: 0 100 0 0 0 0 100 dex = B/A = Indicators: ydrophytic V t is >50% ex is $\leq 3.0^{1}$	2 100 Multiply F x 1 = x 2 = x 3 = x 4 = (A) 2/ /egetation	(A) (B) (A/B) 3y: 0 200 0 0 0 200 (B) 200 (B)
ver	Total Number of Domin Across All Strata: Percent of Dominant Sp Are OBL, FACW, or FAC: Prevalence Index works Total % Cover of OBL species FACW species FACW species FACU species Column Totals Prevalence Inde Hydrophytic Vegetation 1- Rapid Test for H 2 - Dominance Tes 3 - Prevalence Inde 4 - Morphological A	ant Species becies That heet: 0 100 0 0 0 0 100 dex = B/A = Indicators: ydrophytic V t is >50% ex is $\leq 3.0^{1}$	2 100 Multiply E x 1 = x 2 = x 3 = x 4 = (A) 2 /egetation	(B) (A/B) 3y: 0 200 0 0 0 200 (B)
ver	Across All Strata: Percent of Dominant Sp Are OBL, FACW, or FAC: Prevalence Index works Total % Cover of OBL species FACW species FACW species FACU species Column Totals Prevalence Inde Hydrophytic Vegetation 1 - Rapid Test for H 2 - Dominance Tes 3 - Prevalence Inde 4 - Morphological A	heet: 0 100 0 0 0 100 0 100 dex = B/A = Indicators: ydrophytic \ t is >50% ex is $\leq 3.0^1$	2 100 Multiply F x 1 = x 2 = x 3 = x 4 = x 5 = (A) 2 /egetation	(B) (A/B) 3y: 0 200 0 0 0 200 (B)
	Percent of Dominant Sp Are OBL, FACW, or FAC: Prevalence Index works <u>Total % Cover of</u> OBL species FACW species FACU species UPL species Column Totals Prevalence Inde Hydrophytic Vegetation 1 - Rapid Test for H 2 - Dominance Tes 3 - Prevalence Inde 4 - Morphological A	heet: 0 100 0 0 100 0 100 dex = B/A = Indicators: ydrophytic V t is >50% ex is $\leq 3.0^1$	100 <u>Multiply F</u> x 1 = x 2 = x 3 = x 4 = (A) 2 /egetation	(A/B) 3y: 0 200 0 0 200 (B)
Ver	Are OBL, FACW, or FAC: Prevalence Index works Total % Cover of OBL species FACW species FACW species FACU species UPL species Column Totals Prevalence Inde Hydrophytic Vegetation 1 - Rapid Test for H 2 - Dominance Tes 3 - Prevalence Inde 4 - Morphological A	heet: 0 100 0 0 0 100 dex = B/A = Indicators: ydrophytic \ t is >50% ex is ≤ 3.0 ¹	Multiply F x 1 = x 2 = x 3 = x 4 = x 5 = (A) 2	(A/B) By: 0 200 0 0 200 (B)
ver	Prevalence Index works <u>Total % Cover c</u> OBL species FACW species FAC species FACU species UPL species Column Totals Prevalence Inde Hydrophytic Vegetation 1 - Rapid Test for H 2 - Dominance Tes 3 - Prevalence Inde 4 - Morphological A	heet: of: 0 100 0 0 100 dex = B/A = Indicators: $ydrophytic V t is >50% ex is \leq 3.0^{1}$	Multiply E x 1 = x 2 = x 3 = x 4 = (A) 2 /egetation	By: 0 200 0 0 200 (B)
ver	Total % Cover of OBL species FACW species FAC species FACU species UPL species Column Totals Prevalence Ind Hydrophytic Vegetation 1- Rapid Test for H 2 - Dominance Tess 3 - Prevalence Inde 4 - Morphological A	$\frac{0}{100}$ 0 0 0 100 $dex = B/A =$ $Indicators:$ $ydrophytic V$ $t is > 50\%$ $ex is \le 3.0^{1}$	Multiply E x 1 = x 2 = x 3 = x 4 = (A) 2 /egetation	By: 0 200 0 0 200 (B)
ver	OBL species FACW species FAC species FACU species UPL species Column Totals Prevalence Ind Hydrophytic Vegetation 1 - Rapid Test for H 2 - Dominance Tes 3 - Prevalence Inde 4 - Morphological A	$\begin{array}{c} 0 \\ \hline 100 \\ \hline 0 \\ \hline 0 \\ \hline 0 \\ \hline 100 \\ \hline dex = B/A = \\ \hline Indicators: \\ ydrophytic V \\ t is >50\% \\ ex is \le 3.0^1 \end{array}$	x 1 = x 2 = x 3 = x 4 = (A) /egetation	0 200 0 200 (B)
	FACW species FAC species FACU species UPL species Column Totals Prevalence Ind Hydrophytic Vegetation 1- Rapid Test for H 2 - Dominance Tes 3 - Prevalence Inde 4 - Morphological A	100 0 0 0 100 dex = B/A = Indicators: ydrophytic \ t is >50% ex is $\leq 3.0^{1}$	x 2 = x 3 = x 4 = x 5 = (A) /egetation	200 0 200 (B)
	FAC species FACU species UPL species Column Totals Prevalence Ind Hydrophytic Vegetation 1- Rapid Test for H 2 - Dominance Tes 3 - Prevalence Inde 4 - Morphological A	0 0 100 dex = B/A = Indicators: ydrophytic \ t is >50% ex is $\leq 3.0^{1}$	x 3 = x 4 = x 5 = (A) /egetation	0 0 200 (B)
	FACU species UPL species Column Totals Prevalence Ind Hydrophytic Vegetation 1- Rapid Test for H 2 - Dominance Tes 3 - Prevalence Inde 4 - Morphological A	0 0 100 dex = B/A = Indicators: ydrophytic V t is >50% ex is $\leq 3.0^{1}$	x 4 = x 5 = (A) /egetation	0 0 200 (B)
	UPL species Column Totals Prevalence Inc Hydrophytic Vegetation 1 - Rapid Test for H 2 - Dominance Tes 2 - 3 - Prevalence Inde 4 - Morphological A	$\frac{0}{100}$ $dex = B/A = \frac{1}{100}$ Indicators: ydrophytic V t is >50% ex is $\leq 3.0^{1}$	x 5 = (A) 2/egetation	0 200 (B)
	Column Totals Prevalence Ind Hydrophytic Vegetation 1 - Rapid Test for H 2 - Dominance Tes 3 - Prevalence Inde 4 - Morphological A	$\frac{100}{\text{dex} = B/A =}$ Indicators: ydrophytic \ t is >50% ex is $\leq 3.0^1$	(A) /egetation	200 (B)
FACW	Prevalence Inc Hydrophytic Vegetation 1- Rapid Test for H 2 - Dominance Tes 3 - Prevalence Inde 4 - Morphological A	dex = $B/A =$ Indicators: ydrophytic \ t is >50% ex is $\leq 3.0^1$	2/egetation	
Ver	Hydrophytic Vegetation 1- Rapid Test for H 2 - Dominance Tes 3 - Prevalence Inde 4 - Morphological A	Indicators: ydrophytic V tt is >50% ex is $\leq 3.0^1$	/egetation	
FACW	Argentiation of the second secon	ydrophytic t is >50% t is $\leq 3.0^1$	/egetation	
FACW	 ✓ 1- Rapid Test for H ✓ 2 - Dominance Test ✓ 3 - Prevalence Inde ✓ 4 - Morphological A 	t is >50% to solve the second	regetation	
FACW	_ ∠ 2 - Dominance Tes _ ∠ 3 - Prevalence Inde _ 4 - Morphological /	ex is $\leq 3.0^{\circ}$		
FACW	4 - Morphological A	$2x$ is $\leq 3.0^{\circ}$		
FACW	4 - Morphological A	A -1	1 (D	
	data in Domarks or on a	Adaptations	' (Provide s	supporting
FACVV	Droblomatic Hydro	i separate si	tation1 (Evi	nlain)
	Problematic Hyurc	l and wotlan		pidili)
· [indicators of hydric soll	and wettan	a nyarolog matic	y must be
· <u>+</u>	Definitions of Vegetation	n Strata:	matic	
· '	Tree Woody plants 3 in	n (7.6 cm) o	r moro in d	liamotor at
· ,	hreast height (DBH) reg	ardless of h	eight	lameter at
· ,	Sanling/shruh - Woody	nlants less t	han 3 in D	BH and
· [greater than or equal to	3.28 ft (1 m	i) tall.	Dirana
· [Herb – All herbaceous (r	non-woodv)	plants, reg	ardless of
· •	size, and woody plants l	less than 3.2	8 ft tall.	
· ,	Woody vines - All wood	y vines grea	ter than 3.2	28 ft in
· I	height.	, 0		
ver	Hydrophytic Vegetation	Present?	Yes 🖌 N	0
	nyarophytic regetation	i i resent.		°
·				
ver				
· · · · · · · · · · · · · · · · · · ·		Indicators of nyoric sor present, unless disturbe present, unless disturbe Definitions of Vegetatio Tree - Woody plants 3 in breast height (DBH), reg Sapling/shrub - Woody greater than or equal to Herb - All herbaceous (in size, and woody plants I Woody vines - All wood height. Hydrophytic Vegetation wer	Indicators of nyaric soil and weulan present, unless disturbed or proble Definitions of Vegetation Strata: Tree - Woody plants 3 in. (7.6 cm) o breast height (DBH), regardless of h Sapling/shrub - Woody plants less t greater than or equal to 3.28 ft (1 m Herb - All herbaceous (non-woody) size, and woody plants less than 3.2 Woody vines - All woody vines great height. Hydrophytic Vegetation Present? wer wer	Indicators of hydric soil and wetland hydrolog present, unless disturbed or problematic Definitions of Vegetation Strata: Tree - Woody plants 3 in. (7.6 cm) or more in d breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. D greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, reg size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.3 height. Hydrophytic Vegetation Present? Yes/_ N

Sampling Point: W-ARS-11; PEM-1

(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Textu	ure Remarks
0 - 16	7.5YR 2.5/1	80	7.5YR 4/3	20	<u>С</u>	M	Silty Clay	y Loam
				_				
					. <u></u>			
17				-			Canal Cusing 21	
Hydric Soil	oncentration, D = I Indicators:	Deplet	on, RM = Reduce	d Mat	rix, MS =	Masked	Sand Grains. ² Lo	ocation: PL = Pore Lining, M = Matrix. Indicators for Problematic Hydric Soils ³ :
Histosol	(A1)		Polyvalue Be	elow S	urface (S	8) (LRR I	R, MLRA 149B)	2 cm Muck (A10) (LRR K, L, MLRA 149B)
Black Hi	oipedon (A2) stic (A3)		Thin Dark Su	urface kv Mir	(S9) (LRR neral (F1)	: R, MLR/ (I RR K. I	A 149B))	Coast Prairie Redox (A16) (LRR K, L, R)
Hydroge	en Sulfide (A4)		Loamy Gley	ed Ma	trix (F2)	(-)	5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
Stratifie	d Layers (A5)		Depleted M	atrix (l	F3)			Dark Surface (S7) (LRR K, L)
Deplete	d Below Dark Surfa	ace (A1	1) Redox Dark	Surfa	ce (F6)			Thin Dark Surface (S9) (I RR K 1)
Thick Da	ark Surface (A12)		Depleted Da	ark Su	rface (F7)			Iron-Manganese Masses (E12) (LRR K. L. R)
Sandy N	lucky Mineral (S1)		Redox Depr	essior	ns (F8)			Piedmont Floodplain Soils (F19) (MLRA 149B)
Sandy G	ileyed Matrix (S4)							Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
Sandy R	edox (S5)							Red Parent Material (F21)
Stripped	d Matrix (S6)							Very Shallow Dark Surface (TF12)
Dark Su	rface (S7) (LRR R, N	ILRA 14	49B)					Other (Explain in Remarks)
³ Indicators	of hydrophytic veg	etatior	and wetland hyd	Irolog	y must be	e presen	t, unless disturbe	ed or problematic.
Restrictive	-ayer (If observed):		Nono			Ludric	Soil Brocont?	Voc. (No
	Type:		None	-		Hyaric	Soli Present?	res No
Pomarks:	Depth (inches):							
A positive ir	ndication of hydric	soil wa	s observed.					

Photo of Sample Plot



WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: High River	_City/County: Florida, Montgomery C	ounty	Sampling Date: 20)17-July-19			
Applicant/Owner: NextEra	Sta	te: New York	Sampling Point: W-A	ARS-11; UPL-1			
Investigator(s): Andrew Steiner, Adeline Bellesheim Section, Township, Range:							
Landform (hillslope, terrace, etc.): Hillslope	Local relief (conca	ve, convex, none)	Convex	Slope (%): 1-10			
Subregion (LRR or MLRA): LRR L	Lat: 42.900	4611 Long	-74.1570153	Datum: WGS84			
Soil Map Unit Name: Darien silt loam, 3 to 8 per	cent slopes (DaB)		NWI classificati	on:			
Are climatic/hydrologic conditions on the site typic	al for this time of year? Yes	🖌 No (If r	o, explain in Remarks	.)			
Are Vegetation, Soil, or Hydrology	significantly disturbed? Are	"Normal Circum	stances" present?	Yes 🟒 No			
Are Vegetation, Soil, or Hydrology	naturally problematic? (If r	needed, explain a	ny answers in Remark	s.)			

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes No 🟒		
Hydric Soil Present?	Yes No 🟒	Is the Sampled Area within a Wetland?	Yes No 🟒
Wetland Hydrology Present?	Yes No	lf yes, optional Wetland Site ID:	
Remarks: (Explain alternative procedures her	e or in a separate report)	
TRC covertype is UPL. Area is upland, not all t	hree wetland parameter	s are present. non mowed hay field	

Wetland Hydrology Indicators:		
Primary Indicators (minimum of or	e is required; check all that apply)	Secondary Indicators (minimum of two required)
Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2)	 Water-Stained Leaves (B9) Aquatic Fauna (B13) Marl Deposits (B15) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Roots (C3) 	 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)
Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Ima Sparsely Vegetated Concave Su	 Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Thin Muck Surface (C7) Other (Explain in Remarks) 	 Stunted or Stressed Plants (D1) Geomorphic Position (D2) Shallow Aquitard (D3) Microtopographic Relief (D4) FAC-Neutral Test (D5)
Field Observations:		
Surface Water Present?	Yes No Depth (inches):	
Water Table Present?	Yes No Depth (inches):	Wetland Hydrology Present? Yes No
Saturation Present?	Yes No Depth (inches):	-
(includes capillary fringe)		-
Describe Recorded Data (stream g	auge, monitoring well, aerial photos, previous inspections), if	available:

Sampling Point: W-ARS-11; UPL-1

	Abaaluta	Deminant	Indiantau	Dominanco Tost worksh	nont:		
Tree Stratum (Plot size: <u>30 ft</u>)	M Cover	Species?	Status	Number of Dominant S	necies That		
	70 COVE	Species:	Status	Are OBL_EACW_or FAC	pecies mat	0	(A)
1				Total Number of Domin	ant Sharias		
2				Across All Strata	and species	1	(B)
3				Percent of Dominant Sr	ocios That		<u> </u>
4				Are OBL_FACW_or FAC		0	(A/B)
5				Prevalence Index works	haat		
6				Total % Cover	nicet.	Multiply	Bur
7.				OBL species	0		<u> </u>
	0	= Total Cove	r	EACW species	0	×1- ×2-	0
Sapling/Shrub Stratum (Plot size: <u>15 ft</u>)		-		FACW species	0	x Z =	0
1.				FAC species	0	x 3 =	0
2				FACU species	95	x 4 =	380
2				UPL species	5	x 5 =	25
				Column Totals	100	(A)	405 (B)
4				Prevalence In	dex = B/A =	4.1	
5		<u> </u>		Hydrophytic Vegetation	Indicators:		
6.				1- Rapid Test for H	ydrophytic V	'egetatior	ו
7				2 - Dominance Tes	t is > 50%	0	
	0	= Total Cove	r	3 - Prevalence Ind	$-x is < 3.0^{1}$		
Herb Stratum (Plot size: <u>5 ft</u>)				4 - Morphological	Adaptations ¹	(Provide	supporting
1. <i>Solidago canadensis</i>	80	Yes	FACU	- data in Remarks or on a	separate sh	eet)	Supporting
2. Phleum pratense	10	No	FACU	Problematic Hydro	onhytic Veget	tation ¹ (F	xplain)
3. Daucus carota	5	No	UPL	Indicators of hydric soi	l and wetland	d hydrolc	ogy must he
4. Dactylis glomerata	5	No	FACU	present, unless disturbe	ed or probler	natic	By must be
5.				Definitions of Vegetatio	n Strata		
6.				Tree - Woody plants 3 in	n (7.6 cm) or	more in	diameter at
7.				breast height (DBH), res	ardless of h	eight.	diameter at
8				Sanling/shrub - Woody	nlants less th	han 3 in	DBH and
o				greater than or equal to	3.28 ft (1 m) tall.	Dirana
3				Herb – All herbaceous (non-woody) i	nlants re	gardless of
				size, and woody plants	less than 3.2	8 ft tall.	Baraicos er
				Woody vines - All wood	v vines great	er than 3	.28 ft in
12				height.	,		
	100	= Total Cove	r	Lludronbutic Vegetation	Drocont2	/oc	
Woody Vine Stratum (Plot size: <u>30 ft</u>)					i Flesent:	es I	NO <u>/</u>
1							
2							
3							
4							
	0	= Total Cove	r				
Remarks: (Include photo numbers here or on a senar	to shoot)						
Remarks. (include photo numbers here of on a separa	ite sneet.)						
ino positive indication of hydrophytic vegetation was c	ouserved (≥	:50% of domi	nant specie	es indexed as FAC- or drie	er).		

Sampling Point: W-ARS-11; UPL-1

	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture		Remarks
0 - 9	10YR 3/3	100				Sil	ty Clay Loam		
9 - 16	10YR 4/3	90	10YR 4/6	10	С	M Sil	ty Clay Loam		
				_					
		- <u> </u>		_	_				
				_					
ype: C = C	Concentration, D =	Depletio	on, RM = Reduced	Matr	rix, MS =	Masked Sand Grains	. ² Location: PL = Pore	ining,	M = Matrix.
dric Soil	Indicators:						Indicators for Pro	blema	tic Hydric Soils³:
Hydroge Stratifie Deplete Thick Da Sandy M Sandy R Sandy R Stripped Dark Su	en Sulfide (A4) d Layers (A5) d Below Dark Surf ark Surface (A12) Aucky Mineral (S1) Gleyed Matrix (S4) Redox (S5) d Matrix (S6) rrface (S7) (LRR R, I	āce (A11 MLRA 14	Loamy Gleye Depleted Ma) Redox Dark S Depleted Dai Redox Depre	d Mat trix (F Surfac 'k Sur ssion	trix (F2) F3) Ce (F6) face (F7) Is (F8)		5 cm Mucky F Dark Surface Polyvalue Bel Thin Dark Sur Iron-Mangan Piedmont Flo Mesic Spodic Red Parent M Very Shallow Other (Explain	eat or (S7) (LF ow Sur face (S ese Ma: odplair (TA6) (f aterial Dark Su n in Ren	Peat (53) (LRR K, L, K) RR K, L) face (S8) (LRR K, L) 9) (LRR K, L) sses (F12) (LRR K, L, R) n Soils (F19) (MLRA 149B MLRA 144A, 145, 149B) (F21) urface (TF12) marks)
	of hydrophytic veg	getation	and wetland hydi	rology	/ must be	e present, unless dis	turbed or problematic.		
ndicators									
ndicators estrictive l	Layer (if observed) Type:):	None			Hydric Soil Present	?	Yes	No⁄_
ndicators estrictive l emarks:	Layer (if observed) Type: Depth (inches):):	None			Hydric Soil Present	?	Yes	_ No _

Photo of Sample Plot



WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: High Rive	er		City/County:	ty: Amsterdam, Montgomery County			Sampling Date: 2018-May-22				
Applicant/Owner: N	lextEra					State:	New Yo	rk	Sampling Point:	W-DJL-01; PE	M-1
Investigator(s): Don	Lockwood, Ka	ite McGowan			Section	, Towns	ship, Ran	ge:			
Landform (hillslope, te	rrace, etc.):	Depression		Local re	elief (co	ncave, o	convex, r	none):	Concave	Slope	(%): 0-1
Subregion (LRR or MLR	RA): LRR	L		L	Lat: 42	.894055	57	Long:	-74.1435968	Datum	: WGS84
Soil Map Unit Name:	Darien silt lo	am 3 to 8 % slop	bes						NWI classifi	cation: PEM	
Are climatic/hydrologic	c conditions o	n the site typical	for this time	of year?	Y	/es 🖌	_ No	_ (If no	o, explain in Rema	ırks.)	
Are Vegetation,	Soil,	or Hydrology	significan	tly disturbed?	?	Are "N	ormal Ci	rcumst	tances" present?	Yes 🟒	No
Are Vegetation,	Soil,	or Hydrology	naturally	problematic?	•	(If need	ded, exp	lain an	y answers in Rem	arks.)	

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes 🟒 No		
Hydric Soil Present?	Yes 🟒 No	Is the Sampled Area within a Wetland?	Yes 🟒 No
Wetland Hydrology Present?	Yes 🟒 No	If yes, optional Wetland Site ID:	W-DJL-01
Remarks: (Explain alternative procedures h	ere or in a separate report	.)	
TRC covertype is PEM. Area is wetland, all t	hree wetland parameters a	are present. Upland form is also for W-DJL-02; PUB.	

Wetland Hydrology Indicators:				
Primary Indicators (minimum of or	ne is required; check all t	hat apply)		Secondary Indicators (minimum of two required)
 ✓ Surface Water (A1) ✓ High Water Table (A2) ✓ Saturation (A3) Water Marks (B1) Sediment Deposits (B2) 	Water-1 Aquatio Marl Do Hydrog Oxidize	Stained Leaves (B9) : Fauna (B13) eposits (B15) en Sulfide Odor (C1) ed Rhizospheres on Living	g Roots (C3)	 Surface Soil Cracks (B6) ✓ Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imageny (C9)
 Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Ima Sparsely Vegetated Concave Su 	Presen Recent Thin M agery (B7) Other (Irface (B8)	ce of Reduced Iron (C4) Iron Reduction in Tilled S uck Surface (C7) Explain in Remarks)	Soils (C6)	 Stunted or Stressed Plants (D1) Geomorphic Position (D2) Shallow Aquitard (D3) Microtopographic Relief (D4) FAC-Neutral Test (D5)
Field Observations:				
Surface Water Present?	Yes 🟒 No	Depth (inches):	1	
Water Table Present?	Yes 🟒 No	Depth (inches):	0	Wetland Hydrology Present? Yes No
Saturation Present?	Yes 🟒 No	Depth (inches):	0	
(includes capillary fringe)				
Describe Recorded Data (stream g	auge, monitoring well, ac	erial photos, previous ins	pections), if	available:

Sampling Point: W-DJL-01; PEM-1

				Dennin en en Teletere der be	- 4-		
Tree Stratum (Plot size: <u>30 ft</u>)	Absolute	Dominant	Indicator	Dominance Test Workshee	et:		
	% Cover	species?	Status		ecies That	2	(A)
1				Tatal Number of Deminer			
2				Across All Strata	it species	2	(B)
3	<u> </u>			ACTOSS All Strata.	aia a That		
4					cies mat	100	(A/B)
5				Are OBL, FACW, of FAC.			
6.						N 4	D. a
7.				- <u>Iotal % Cover ol</u>		MUILIPIY	<u>ву:</u>
	0	= Total Cov	er	- OBL species	0	x I =	0
Sapling/Shrub Stratum (Plot size: 15 ft)		-			100	x 2 = _	200
1.				FAC species	0	x 3 = _	0
2	·			FACU species	0	x 4 =	0
2	·			- UPL species	0	x 5 =	0
				- Column Totals	100	(A)	200 (B)
4. 				Prevalence Inde	ex = B/A =	2	
5.				Hydrophytic Vegetation Ir	ndicators:		
6				 J - Rapid Test for Hyd 	drophytic V	egetation	
7	·			2 - Dominance Test i	is >50%	0	
	0	= Total Cov	er		$is < 3.0^{1}$		
Herb Stratum (Plot size: <u>5 ft</u>)				4 - Morphological Ac	lantations ¹	(Provide	supporting
1. <i>Impatiens capensis</i>	70	Yes	FACW	- data in Remarks or on a s	eparate sh	(i romac	Supporting
2. <u>Onoclea sensibilis</u>	30	Yes	FACW	- Problematic Hydrop	hvtic Vege	tation ¹ (Ex	(plain)
3				¹ Indicators of hydric soil a	and wetland	d hvdrolo	gy must be
4.				present, unless disturbed	or probler	matic	89 11486 2 6
5.				Definitions of Vegetation	Strata:		
6.				Tree – Woody plants 3 in	(7.6 cm) or	more in a	diameter at
7.	- <u> </u>			breast height (DBH), rega	rdless of h	eight.	
8	·			Sapling/shrub - Woody pl	ants less t	han 3 in. D	OBH and
9				greater than or equal to 3	8.28 ft (1 m) tall.	
10	·			Herb – All herbaceous (no	on-woody)	plants, reg	gardless of
11				size, and woody plants les	ss than 3.2	8 ft tall.	
12	·			Woody vines - All woody	vines great	er than 3.	.28 ft in
12				height.	0		
	100	= lotal Cov	er	Hydrophytic Vegetation F	Present?	/es ./ N	lo
<u>Woody Vine Stratum</u> (Plot size: <u>30 ft</u>)					resent.	C5 <u>v</u>	
1	·			-			
2	<u> </u>			-			
3				_			
4	<u> </u>			_			
	0	= Total Cov	er				
Remarks: (Include photo numbers here or on a separat	te sheet)						
Remains, (include proto numbers here of on a separa	c sneet.)						

Sampling Point: W-DJL-01; PEM-1

Profile Desc	ription: (Describe	to the d	epth needed to c	locum	ent the i	ndicator	or confirm the at	bsence of indicator	s.)
Deptn	Matrix		Redo	x Feat	ures	1	T +		Devesedas
(inches)		<u> </u>	Color (moist)		Туре	LOC ²	lext	üre	Remarks
0-2	10YR 2/1	100	10/0 2/0	10					
12 10	10YR 3/1	90	10YR 3/6	10				vloom	
12-18	10YR 4/2	90	TUTR 3/6	10		IVI	Silty Cla	y Loam	
				·				<u></u>	
				·				<u> </u>	
				·				<u> </u>	
					<u> </u>				
					·				
					. <u> </u>				
					·				
				·					
¹ Type: C = C	oncentration, D =	Depletic	on, RM = Reduced	d Mati	rix, MS =	Masked	Sand Grains. ² Lo	ocation: PL = Pore l	Lining, M = Matrix.
Hydric Soil	ndicators:							Indicators for Pro	blematic Hydric Soils ³ :
Histosol	(A1)		Polyvalue Be	low S	urtace (S	8) (LRR F	R, MLRA 149B)	2 cm Muck (A	10) (LRR K, L, MLRA 149B)
Histic Ep	oipedon (A2)		Thin Dark Su	irface	(S9) (LRR	R, MLRA	а 149В) \	Coast Prairie	Redox (A16) (LRR K, L, R)
Hydroge	suc (AS) an Sulfide (A4)			d Ma	trix (F2)		.)	5 cm Mucky P	eat or Peat (S3) (LRR K, L, R)
Stratifie	d Lavers (A5)		Depleted Ma	atrix (F	-3)			Dark Surface	(S7) (LRR K, L)
✓ Deplete	d Below Dark Surf	ace (A11	Redox Dark	Surfa	ce (F6)			Polyvalue Bel	ow Surface (S8) (LRR K, L)
Thick Da	ark Surface (A12)		Depleted Da	rk Sui	face (F7)			Thin Dark Sur	Tace (S9) (LRR K, L)
Sandy N	lucky Mineral (S1)		Redox Depre	essior	is (F8)			Iron-Mangane	ese Masses (FT2) (LRR K, L, R)
Sandy G	ileyed Matrix (S4)							Pleamont Flo	(TA6) (MI PA 144A 145 149B)
Sandy R	edox (S5)							Red Parent M	aterial (E21)
Stripped	l Matrix (S6)							Very Shallow	Dark Surface (TE12)
Dark Su	rface (S7) (LRR R, N	MLRA 14	9B)					Other (Explain	n in Remarks)
³ Indicators	of hydrophytic yes	retation	and wetland hvd	rology	/ must be	o nresen [.]	t. unless disturbe	d or problematic	
Restrictive I	ayer (if observed)	:						<u> </u>	
	Туре:		Stone rock	_		Hydric	Soil Present?		Yes 🟒 No
	Depth (inches):		18						

Hydrology Photos



Vegetation Photos



Soil Photos



Photo of Sample Plot



WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: High Rive	er		City/County:	Amsterdam, Montgomery County			Sampling Date: 2018-May-23				
Applicant/Owner: N	lextEra					State:	New Yo	rk	Sampling Point:	W-DJL-01; P	EM-3
Investigator(s): Don	Lockwood, Ka	te McGowan			Section,	, Towns	hip, Ran	ge:			
Landform (hillslope, te	rrace, etc.):	Depression		Local re	elief (coi	ncave, o	convex, i	none):	Concave	Slope	e (%): 1-10
Subregion (LRR or MLF	RA): LRR	L		I	Lat: 42.	.896861	8	Long:	-74.1344446	Datur	n: WGS84
Soil Map Unit Name:	Darien silt lo	am 3 to 8 perce	nt slopes						NWI classifi	cation: PEN	1
Are climatic/hydrologic	c conditions o	n the site typical	for this time	of year?	Y	′es 🟒	_ No	_ (If no	, explain in Rema	rks.)	
Are Vegetation,	Soil,	or Hydrology	significant	tly disturbed	?	Are "N	ormal Ci	rcumst	ances" present?	Yes 🟒	_ No
Are Vegetation,	Soil,	or Hydrology	naturally	problematic?	2	(If need	ded, exp	lain an	y answers in Rem	arks.)	

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes 🟒 No		
Hydric Soil Present?	Yes 🟒 No	Is the Sampled Area within a Wetland?	Yes 🟒 No _
Wetland Hydrology Present?	Yes 🟒 No	If yes, optional Wetland Site ID:	W-DJL-01
Remarks: (Explain alternative procedure	es here or in a separate rep	port)	
TRC covertype is PEM. Area is wetland,	all three wetland paramete	ers are present.	

Wetland Hydrology Indicators:				
Primary Indicators (minimum of on	e is required; chec	<u>k all that apply)</u>		Secondary Indicators (minimum of two required)
Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2)	W A M H 0	/ater-Stained Leaves (B9) quatic Fauna (B13) larl Deposits (B15) ydrogen Sulfide Odor (C1) xidized Rhizospheres on Livi	ng Roots (C3)	 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)
 Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Ima Sparsely Vegetated Concave Su 	Pi Ri Tl agery (B7) O rface (B8)	resence of Reduced Iron (C4) ecent Iron Reduction in Tillec hin Muck Surface (C7) ther (Explain in Remarks)	l Soils (C6)	 Stunted or Stressed Plants (D1) Geomorphic Position (D2) Shallow Aquitard (D3) Microtopographic Relief (D4) FAC-Neutral Test (D5)
Field Observations:				
Surface Water Present?	Yes No 🟒	Depth (inches):		
Water Table Present?	Yes 🟒 No	Depth (inches):	4	Wetland Hydrology Present? Yes No
Saturation Present?	Yes 🟒 No	Depth (inches):	0	
(includes capillary fringe)				
Describe Recorded Data (stream ga	auge, monitoring w	rell, aerial photos, previous ir	nspections), if	available:
Remarks:				
A positive indication of wetland hyd	drology was observ	ved (primary and secondary i	ndicators wer	e present).

Sampling Point: W-DJL-01; PEM-3

Tree Stratum (Plot size: <u>30 ft</u>)	Absolute	Dominant	Indicator	Dominance Test works	heet:		
1	% COVE	species:	Status	Are OBL, FACW, or FAC	:	4	(A)
1				Total Number of Domi	nant Species		
2.				Across All Strata:		4	(B)
3.				Percent of Dominant S	pecies That	100	(4 (D)
4				Are OBL, FACW, or FAC	:	100	(A/B)
э				Prevalence Index work	sheet:		
0				Total % Cover	of:	<u>Multiply</u>	<u>By:</u>
<i>1.</i>		- Total Cov	~~	OBL species	40	x 1 =	40
Capling/Chruh Stratum (Plat size) 15 ft)	0	- 10tal COV	ei	FACW species	95	x 2 =	190
<u>Sapiring/Sinrub Stratum</u> (Plot Size. <u>15 it</u>)	40	Voc		FAC species	45	x 3 =	135
1. Contrus alba	20	Voc		FACU species	0	x 4 =	0
2. Colive pigeo	10	No		UPL species	0	x 5 =	0
5. Salix Tilgia	10			Column Totals	180	(A)	365 (B)
4. Cornus racemosa	10	NO	FAC	Prevalence Ir	ndex = B/A =	2	
S				Hydrophytic Vegetation	n Indicators:		
o				1- Rapid Test for I	- - Hydrophytic V	egetation/	
/		- Total Cau		2 - Dominance Te	st is >50%		
Line Strategy (Distring 5 ft)	90		er	3 - Prevalence Inc	lex is $\leq 3.0^1$		
Herb Stratum (Plot size: <u>5 ft</u>)	20	Vac		4 - Morphological	Adaptations	(Provide	supporting
1. Impatiens capensis		Yee	FACW	data in Remarks or on	a separate sh	ieet)	
		<u>res</u>	FAC	Problematic Hydr	ophytic Vege	tation ¹ (Ex	plain)
3. Equiselum arvense	15		FAC	¹ Indicators of hydric so	il and wetlan	d hydrolog	gy must be
4. Phalans arundinacea	15		FACW	present, unless disturb	ed or proble	matic	
5. Unociea sensibilis	10	NO	FACW	Definitions of Vegetation	on Strata:		
6	. <u> </u>			Tree – Woody plants 3	in. (7.6 cm) oi	r more in o	diameter at
7	. <u> </u>			Dreast neight (DBH), re	gardless of n	eignt. Is an Dùn T	
8	. <u> </u>			greater than or equal t	0 2 28 ft (1 m	nan 3 in. L V tall	лен апо
9	·			Herb – All herbaceous	(non-woody)	nlants reg	ardless of
10	. <u> </u>			size, and woody plants	less than 3.2	8 ft tall.	
11	. <u> </u>			Woody vines – All wood	dv vines great	ter than 3.	28 ft in
12				height.)		
	90	= lotal Cov	er	Hydrophytic Vegetatio	n Present?	(es ./ N	lo
Woody Vine Stratum (Plot size: <u>30 ft</u>)				i i jui oprijuć vegetatio	in resent.	<u> </u>	
1				-			
2.							
3							
4							
	0	= Total Cov	er				
Remarks: (Include photo numbers here or on a separat	e sheet.)						

O - 10 10YR 3/2 90 0 - 10 10YR 3/2 90	Image: Normal Stress Image: No	ked Sand Grains. ² Locatior Indic.	
ype: C = Concentration, D = Depletion, F ydric Soil Indicators:		ked Sand Grains. ² Location Indic	
	RM = Reduced Matrix, MS = Mas Polyvalue Below Surface (S8) (I	ked Sand Grains. ² Locatior Indic	
	RM = Reduced Matrix, MS = Mas Polyvalue Below Surface (S8) (I	ked Sand Grains. ² Locatior Indic	PL = Pore Lining, M = Matrix. ators for Problematic Hydric Soils ³ :
	RM = Reduced Matrix, MS = Mas Polyvalue Below Surface (S8) (I	ked Sand Grains. ² Location Indic.	PL = Pore Lining, M = Matrix. ators for Problematic Hydric Soils ³ :
	RM = Reduced Matrix, MS = Mas Polyvalue Below Surface (S8) (I	ked Sand Grains. ² Location Indic. RR R, MLRA 149B)	
/pe: C = Concentration, D = Depletion, F dric Soil Indicators: . Histosol (A1) Histic Epipedon (A2) Black Histic (A3) . Hydrogen Sulfide (A4)	RM = Reduced Matrix, MS = Mas Polyvalue Below Surface (S8) (I Thin Dark Surface (S9) (LRR R,	ked Sand Grains. ² Locatior Indic	1: PL = Pore Lining, M = Matrix. ators for Problematic Hydric Soils ³ :
/pe: C = Concentration, D = Depletion, F dric Soil Indicators: . Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4)	RM = Reduced Matrix, MS = Ma: Polyvalue Below Surface (S8) (I	ked Sand Grains. ² Locatior Indic	1: PL = Pore Lining, M = Matrix. ators for Problematic Hydric Soils ³ :
pe: C = Concentration, D = Depletion, F dric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4)	RM = Reduced Matrix, MS = Mas Polyvalue Below Surface (S8) (I	ked Sand Grains. ² Location Indic. RR R, MLRA 149B) 2	- - - 1: PL = Pore Lining, M = Matrix. ators for Problematic Hydric Soils ³ :
pe: C = Concentration, D = Depletion, F dric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4)	RM = Reduced Matrix, MS = Matri	ked Sand Grains. ² Location Indic	- - 1: PL = Pore Lining, M = Matrix. ators for Problematic Hydric Soils ³ :
/pe: C = Concentration, D = Depletion, F dric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4)	RM = Reduced Matrix, MS = Mas Polyvalue Below Surface (S8) (I Thin Dark Surface (S9) (LRR R, I	ked Sand Grains. ² Location Indic .RR R, MLRA 149B) 2	- 1: PL = Pore Lining, M = Matrix. ators for Problematic Hydric Soils ³ :
/pe: C = Concentration, D = Depletion, F dric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4)	RM = Reduced Matrix, MS = Mas Polyvalue Below Surface (S8) (I Thin Dark Surface (S9) (LRR R, I	ked Sand Grains. ² Location Indic. RR R, MLRA 149B) 2	n: PL = Pore Lining, M = Matrix. ators for Problematic Hydric Soils ³ :
rpe: C = Concentration, D = Depletion, F dric Soil Indicators: . Histosol (A1) . Histic Epipedon (A2) . Black Histic (A3) . Hydrogen Sulfide (A4)	RM = Reduced Matrix, MS = Ma Polyvalue Below Surface (S8) (I Thin Dark Surface (S9) (LRR R, I	ked Sand Grains. ² Locatior Indic. RR R, MLRA 149B) 2	n: PL = Pore Lining, M = Matrix. ators for Problematic Hydric Soils ³ :
dric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4)	Polyvalue Below Surface (S8) (Thin Dark Surface (S9) (LRR R , I	RR R, MLRA 149B) م.	ators for Problematic Hydric Soils ³ :
Histosoi (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4)	_Polyvalue Below Surface (S8) (I _Thin Dark Surface (S9) (LRR R, I	.KK K, MLKA 149B) 🤈	,
Black Histic (A3)	$_{\rm IIIIII}$ Dark Surface (S9) (LKK K, I	AL DA 140B)	cm Muck (A10) (LRR K, L, MLRA 149B)
Hydrogen Sulfide (A4)	Loamy Mucky Mineral (F1) (LRI	K.L)	oast Prairie Redox (A16) (LRR K, L, R)
	Loamy Gleyed Matrix (F2)	5	cm Mucky Peat or Peat (S3) (LRR K, L, R)
Stratified Layers (A5)	Depleted Matrix (F3)	U D	ark Surface (S7) (LKR K, L)
_ Depleted Below Dark Surface (A11)	Redox Dark Surface (F6)	'' T	hin Dark Surface (S9) (LRR K. L)
Thick Dark Surface (A12)	Depleted Dark Surface (F7)	Ir	on-Manganese Masses (F12) (LRR K, L, R)
Sandy Mucky Mineral (S1)	Redox Depressions (F8)	P	iedmont Floodplain Soils (F19) (MLRA 149B)
_ Sandy Gleyed Matrix (S4)		N	lesic Spodic (TA6) (MLRA 144A, 145, 149B)
_ Sandy Redox (SS)		R	ed Parent Material (F21)
Dark Surface (S7) (I RR R. MI RA 1498)		V	ery Shallow Dark Surface (TF12)
		0	ther (Explain in Remarks)
dicators of hydrophytic vegetation and	l wetland hydrology must be pr	esent, unless disturbed or pr	oblematic.
strictive Layer (if observed):			
Туре:	Rock Hy	dric Soil Present?	Yes 🟒 No
Depth (inches):	10		<u></u>

Hydrology Photos



Soil Photos



US Army Corps of Engineers

Northcentral and Northeast Region -- Version 2.0 Adapted by TRC

Photo of Sample Plot



WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: High Rive	er		City/County:	Amsterdam, Montgomery County				Sampling Date: 2018-May-23		
Applicant/Owner: N	lextEra				State:	New York	Sa	ampling Point:	W-DJL-01; P	SS-2
Investigator(s): Don	Lockwood, Ka	te McGowan		S	ection, Towns	ship, Range:	-			
Landform (hillslope, te	rrace, etc.):	Depression		Local rel	ief (concave,	convex, non	ne): C	Concave	Slop	e (%): 1-10
Subregion (LRR or MLF	RA): LRR	L		Lä	at: 42.89786	73 Loi	ng:7	74.1390224	Datu	m: WGS84
Soil Map Unit Name:	Darien silt lo	am 3 to 8 perce	nt slopes					NWI classifi	cation: PSS)
Are climatic/hydrologic	c conditions o	n the site typical	for this time	of year?	Yes 🟒	_ No (l	lf no, e	explain in Rema	rks.)	
Are Vegetation,	Soil,	or Hydrology	significant	tly disturbed?	Are "N	ormal Circu	ımstar	nces" present?	Yes 🟒	<u>/ No</u>
Are Vegetation,	Soil,	or Hydrology	naturally	problematic?	(If nee	ded, explain	n any a	answers in Rem	arks.)	

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes No		
Hydric Soil Present?	Yes 🟒 No	Is the Sampled Area within a Wetland?	Yes 🟒 No
Wetland Hydrology Present?	Yes 🟒 No	If yes, optional Wetland Site ID:	W-DJL-01
Remarks: (Explain alternative procedures h	ere or in a separate repor	t)	
TRC covertype is PSS. Area is wetland, all th	nree wetland parameters a	are present.	

Wetland Hydrology Indicators:	
Primary Indicators (minimum of one is required; check all that apply	<u>Secondary Indicators (minimum of two required)</u>
✓ Surface Water (A1) Water-Stained I ✓ High Water Table (A2) Aquatic Fauna (✓ Saturation (A3) Marl Deposits (Water Marks (B1) Hydrogen Sulfic Sediment Deposits (B2) Oxidized Rhizos	eaves (B9) Surface Soil Cracks (B6) (13) Drainage Patterns (B10) 15) Moss Trim Lines (B16) e Odor (C1) Dry-Season Water Table (C2) oberes on Living Roots (C3) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9)
 Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Other (Explain in Sparsely Vegetated Concave Surface (B8) 	
Field Observations:	
Surface Water Present? Yes 🖌 No Dep	h (inches): 1
Water Table Present? Yes 🧹 No Dep	h (inches): 1 Wetland Hydrology Present? Yes No
Saturation Present? Yes 🖌 No Dep	h (inches): 0
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial pho Remarks:	os, previous inspections), if available:

Sampling Point: W-DJL-01; PSS-2

<u>Tree Stratum</u> (Plot size: <u>30 ft</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test works	heet: Species That	0	(4)
1. Fraxinus pennsylvanica	20	Yes	FACW	Are OBL, FACW, or FAC	Are OBL, FACW, or FAC:		(A)
2. Acer rubrum	20	Yes	FAC	Total Number of Domi	nant Species	9	(B)
4.				Percent of Dominant S	pecies That	88.9	(A/B)
5				- Prevalence Index work	 rsheet:		
6				- Total % Cover	of	Multiply	Bv:
7				- OBL species	20	x 1 =	<u>- 20</u> 20
	40	= Total Cov	rer	FACW species	160	x 2 =	320
<u>Sapling/Shrub Stratum</u> (Plot size: <u>15 ft</u>)				FAC species	50	×2-	150
1. <i>Cornus alba</i>	20	Yes	FACW		10	× 4 -	10
2. Rhamnus alnifolia	20	Yes	OBL	- FACO species	10	x 4 -	40
3. Cornus racemosa	20	Yes	FAC	- OPL species	0	x 5 =	0
4.		·			240	(A)	530 (B)
5.				Prevalence l	ndex = B/A =	2.2	
6				Hydrophytic Vegetatio	n Indicators:		
7				1- Rapid Test for	Hydrophytic \	/egetatior	ı
7.		- Tatal Ca		2 - Dominance Te	est is >50%		
	- 60	- 10tal Cov	er	3 - Prevalence Ind	dex is $\leq 3.0^1$		
Herb Stratum (Plot size: <u>5 ft</u>)	70		54 6144	4 - Morphologica	l Adaptations	¹ (Provide	supporting
1. Impatiens capensis		res	FACW	- data in Remarks or on	a separate sh	neet)	
2. <u>Poa palustris</u>	40	Yes	FACW	Problematic Hyd	rophytic Vege	tation ¹ (E	xplain)
3. <u>Equisetum palustre</u>	10	No	FACW	¹ Indicators of hydric so	oil and wetlan	d hydrolo	gy must be
4				present, unless disturb	bed or proble	matic	
5				Definitions of Vegetati	on Strata:		
6				Tree – Woody plants 3	in. (7.6 cm) o	r more in	diameter at
7				breast height (DBH), re	egardless of h	eight.	
8.				Sapling/shrub - Wood	y plants less t	han 3 in. l	DBH and
9.				greater than or equal t	to 3.28 ft (1 m) tall.	
10.				Herb – All herbaceous	(non-woody)	plants, re	gardless of
11.				size, and woody plants	less than 3.2	8 ft tall.	
12				Woody vines – All woo	dy vines grea	ter than 3	.28 ft in
	120	= Total Cov	or	height.			
Woody Vine Stratum (Plot size: 20 ft)	120	-		Hydrophytic Vegetatio	on Present?	res 🟒 🛚	No
1 Parthanaciscus quinquafalia	10	Vec	EACU				
Parutenocissus quinqueiolia	10	res	FACU	-			
2. vitis riparia	10	Yes	FAC	-			
3		·		-			
4				-			
	20	- Total Cou		1			

(inches)	Matrix		Redox	<pre>< Feat</pre>	ures	ndicator	or confirm the at	sence of indicato	(S.)
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Text	ure	Remarks
0 - 4	10YR 2/1	100		·			Mucky Silt Loam		
4 - 18	10YR 4/2	90	10YR 4/6	10	С	М	Mucky Si	lt Loam	
				·			<u>y</u>		
		·		·					
			-	·					
				· —					
<u> </u>				·		·			
<u> </u>				·					
				·		<u> </u>			
				·					
'Type: C = C	Concentration, D =	Depletio	on, RM = Reduced	d Mat	rix, MS =	Masked S	Sand Grains. ² Lo	ocation: PL = Pore	Lining, M = Matrix.
Hydric Soil I	Indicators:							Indicators for Pro	oblematic Hydric Soils ³ :
Histosol	(A1)		Polyvalue Be	low S	urface (S	8) (LRR R	, MLRA 149B)	2 cm Muck (A	(10) (LRR K, L, MLRA 149B)
Histic Ep	oipedon (A2)		Thin Dark Su	irface	(S9) (LRR	R, MLRA	149B)	Coast Prairie	Redox (A16) (LRR K, L, R)
Black Hi	stic (A3)		Loamy Muck	y Min	eral (F1)	(LRR K, L		5 cm Mucky l	Peat or Peat (S3) (LRR K, L, R)
Hydroge	en Sulfide (A4)		Loamy Gleye	d Ma	trix (F2)			Dark Surface	(S7) (LRR K, L)
Stratifie	d Layers (A5) d Bolow Dark Surf	200 (11	Depleted Ma	itrix (I	-3) -2 (E6)			Polyvalue Be	low Surface (S8) (LRR K, L)
Depiete	u below Dark Suri	ace (ATT	Depleted Da	suna rk Suu	.e (F0) faco (E7)			Thin Dark Su	rface (S9) (LRR K, L)
Sandy M	Aucky Mineral (S1)		Depieted Da		1ace (F7)			Iron-Mangan	ese Masses (F12) (LRR K, L, R)
Sandy G	loved Matrix (S4)			233101	13 (1 0)			Piedmont Flo	odplain Soils (F19) (MLRA 149B)
Sandy E	adox (S5)							Mesic Spodic	(TA6) (MLRA 144A, 145, 149B)
Sanuy K	Matrix (SG)							Red Parent N	laterial (F21)
Dark Su	rface (S7) (I DD D		0B)					Very Shallow	Dark Surface (TF12)
			50)					Other (Explai	n in Remarks)
Daik Su				rolom	/ must he	e present	, unless disturbe	d or problematic.	
Indicators	of hydrophytic veg	getation	and wetland hyd	l olog	y must be				
³ Indicators Restrictive I	of hydrophytic veg Layer (if observed)	getation :	and wetland hyd	rolog	y mase be				
Indicators Restrictive I	of hydrophytic veg L ayer (if observed) Type:	getation :	and wetland hyd None	<u>10108</u>	y must be	Hydric	Soil Present?		Yes No
Restrictive I	of hydrophytic veg L ayer (if observed) Type: Depth (inches):	getation :	and wetland hyd None		y must be	Hydric	Soil Present?		Yes No
Remarks:	of hydrophytic veg L ayer (if observed) Type: Depth (inches):	getation : 	and wetland hyd None			Hydric	Soil Present?		Yes No
Remarks:	of hydrophytic veg L ayer (if observed) Type: Depth (inches):	getation : 	and wetland hyd None			Hydric	Soil Present?		Yes No
Restrictive I	of hydrophytic veg L ayer (if observed) Type: Depth (inches):	getation : 	and wetland hyd None	<u>.</u>		Hydric :	Soil Present?		Yes No
Restrictive I	of hydrophytic veg L ayer (if observed) Type: Depth (inches):	getation : 	and wetland hyd None			Hydric :	Soil Present?		Yes No
Remarks:	of hydrophytic veg L ayer (if observed) Type: Depth (inches):	getation : 	and wetland hyd None			Hydric :	Soil Present?		Yes No
Restrictive I	of hydrophytic veg L ayer (if observed) Type: Depth (inches):	getation :	and wetland hyd None			Hydric :	Soil Present?		Yes No
Remarks:	of hydrophytic veg L ayer (if observed) Type: Depth (inches):	getation :	and wetland hyd None	<u>.</u>	, must be	Hydric :	Soil Present?		Yes _ 🗶 No
Remarks:	of hydrophytic veg L ayer (if observed) Type: Depth (inches):		and wetland hyd None		<u>, must be</u>	Hydric :	Soil Present?		Yes _ 🖌 No
Remarks:	of hydrophytic veg La yer (if observed) Type: Depth (inches):		and wetland hyd		, must be	Hydric :	Soil Present?		Yes _ 🖌 No
Restrictive I	of hydrophytic veg La yer (if observed) Type: Depth (inches):		and wetland hyd		, must bi	Hydric :	5oil Present?		Yes _ <u>/</u> No
Remarks:	of hydrophytic veg La yer (if observed) Type: Depth (inches):	etation	and wetland hyd		, must bi	Hydric :	5oil Present?		Yes _ <u>/</u> No
Remarks:	of hydrophytic veg La yer (if observed) Type: Depth (inches):		and wetland hyd		, must bi	Hydric :	Soil Present?		Yes No
Remarks:	of hydrophytic veg La yer (if observed) Type: Depth (inches):		and wetland hyd		, must be	Hydric :	Soil Present?		Yes No
Remarks:	of hydrophytic veg La yer (if observed) Type: Depth (inches):		and wetland hyd		, must be	Hydric :	Soil Present?		Yes No
Remarks:	of hydrophytic veg L ayer (if observed) Type: Depth (inches):		and wetland hyd			Hydric :	Soil Present?		Yes No
Restrictive I	of hydrophytic veg L ayer (if observed) Type: Depth (inches):	<u>getation</u>	and wetland hyd			Hydric :	Soil Present?		Yes No
Restrictive I	of hydrophytic veg L ayer (if observed) Type: Depth (inches):	<u>getation</u>	and wetland hyd		, must be	Hydric :	Soil Present?		Yes No
Restrictive I	of hydrophytic veg Layer (if observed) Type: Depth (inches):	<u>getation</u>	and wetland hyd		, mus bi	Hydric :	Soil Present?		Yes No
Aestrictive I	of hydrophytic veg Layer (if observed) Type: Depth (inches):	<u>getation</u>	and wetland hyd		,	Hydric :	Soil Present?		Yes No

Hydrology Photos


Vegetation Photos



Soil Photos



Photo of Sample Plot



WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: High Rive	er		City/County:	Amsterdam	n, Mon	tgomery	County		Sampling Date:	2018-May	-22	
Applicant/Owner: N	lextEra					State:	New Yor	rk	Sampling Point:	W-DJL-01; U	IPL-1	
Investigator(s): Don	Lockwood, Ka	te McGowan			Sectio	n, Towns	hip, Ran	ge:				
Landform (hillslope, te	rrace, etc.):	Hilltop		Local re	elief (c	oncave, o	convex, r	none):	Convex	Slope	e (%): 1-1	0
Subregion (LRR or MLF	RA): LRR I	-			Lat: 4	2.894055	57	Long:	-74.1435968	Datur	m: WGS8	4
Soil Map Unit Name:	Darien silt lo	am 3 to 8 perce	nt slopes						NWI classific	ation: Nor	n-Wetland	1
Are climatic/hydrologic	c conditions or	the site typical	for this time	of year?		Yes 🖌	No	_ (If no	, explain in Rema	rks.)		
Are Vegetation,	Soil,	or Hydrology	significant	tly disturbed	l?	Are "No	ormal Cir	rcumst	ances" present?	Yes 🟒	<u>/</u> No	-
Are Vegetation,	Soil,	or Hydrology	naturally	problematic?	?	(If need	ded, expl	ain an	y answers in Rem	arks.)		

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes No								
Hydric Soil Present?	Yes No 🟒	Is the Sampled Area within a Wetland?	Yes No 🟒						
Wetland Hydrology Present?	Yes No	lf yes, optional Wetland Site ID:							
Remarks: (Explain alternative procedures here or in a separate report)									
TRC covertype is UPL. Area is upland, not all t	hree wetland parameter	s are present.							

HYDROLOGY

Wetland Hydrology Indicators:				
Primary Indicators (minimum of one is	Secondary Indicators (minimum of two required)			
Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2)	Water-Stained Leaves (B9) Aquatic Fauna (B13) Marl Deposits (B15) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Roots (C3)	 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) 		
 Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imager Sparsely Vegetated Concave Surface 	 Stunted or Stressed Plants (D1) Geomorphic Position (D2) Shallow Aquitard (D3) Microtopographic Relief (D4) FAC-Neutral Test (D5) 			
Field Observations:				
Surface Water Present? Ye Water Table Present? Ye	les No _ ✓ Depth (inches): les No _ ✓ Depth (inches):	Wetland Hydrology Present? Yes No		
Saturation Present? Ye	es No Depth (inches):			
(includes capillary fringe)				
Describe Recorded Data (stream gauge	e, monitoring well, aerial photos, previous inspections), if	available:		
Remarks: No positive indication of wetland hydro	ology was observed.			

VEGETATION -- Use scientific names of plants.

Sampling Point: W-DJL-01; UPL-1

Tree Stratum (Plot size: 30 ft)	Absolute	Dominant	Indicator	Dominance Test works	heet:		
`	% Cover	Species?	Status	Number of Dominant S	Species That	1	(A)
1. Acer saccharum	60	Yes	FACU	Are OBL, FACW, or FAC	:		
2. Ostrya virginiana	40	Yes	FACU	Across All Strata:	nant Species	6	(B)
3. <i>Carya cordiformis</i>	15	No	FAC				
4. <i>Carya ovata</i>	15	No	FACU	Are OBL_FACW_or FAC		16.7	(A/B)
5				Prevalence Index work	sheet		
6				Total % Cover	of	Multiply	Bv:
7				OBL species	0	x 1 =	<u>⊔y.</u> ∩
	130	= Total Cov	er	FACW species	0	×2=	0
Sapling/Shrub Stratum (Plot size: <u>15 ft</u>)				FAC species	25	×2- ×3-	75
1. <i>Ostrya virginiana</i>	30	Yes	FACU	EACLI species	155	× 4 -	620
2.					10	×4- ×5-	020 E0
3.				Column Totala	10	x 5 = _	50
4.					190	(A) _	745 (B)
5.		·		Prevalence Ir	1dex = B/A =	3.9	
6.				Hydrophytic Vegetatio	n Indicators:		
7.				1- Rapid Test for I	-lydrophytic \	/egetation	
	30	= Total Cov	er	2 - Dominance Te	st is > 50%		
Herb Stratum (Plot size: 5 ft)		-		3 - Prevalence Inc	lex is $\leq 3.0^1$		
1. Carya cordiformis	10	Yes	FAC	4 - Morphological	Adaptations	¹ (Provide s	supporting
2. Ostrya virginiana	10	Yes	FACU	Droblomatic Llude	a separate sr	ieel)	nlain)
3. Eurybia macrophylla	10	Yes	UPL	Problematic Hyur	il and wotlan		piairi) Ty must bo
4.				nresent unless disturb	and wetian	u Hyuroloş matic	gy must be
5.		·	·······	Definitions of Vegetation	on Strata	matic	
6.				Tree - Woody plants 3	in (7.6 cm) o	r more in c	liamotor at
7.				breast height (DBH), re	gardless of h	eight.	
8		· ·	<u> </u>	Sapling/shrub - Woody	/ plants less t	han 3 in. D	BH and
9		· ·	<u> </u>	greater than or equal t	o 3.28 ft (1 m) tall.	
10				Herb – All herbaceous	(non-woody)	plants, reg	ardless of
11				size, and woody plants	less than 3.2	8 ft tall.	
12		·	<u> </u>	Woody vines - All wood	dy vines grea	ter than 3.	28 ft in
16.	30	= Total Cov	or	height.			
Woody Vine Stratum (Plot size: 30 ft)		- 10001 000	CI	Hydrophytic Vegetatio	n Present?	Yes N	0 🖌
1							
···		<u> </u>					
2							
۶		<u> </u>	·······				
4		- Total Cav					
	0	- 10tal COV	er				
Remarks: (Include photo numbers here or on a separat	e sheet.)						

SOIL

Sampling Point: <u>W-DJL-01; UPL-1</u>

(inches)	Calar (maint)	0/	Color (modet)	0/	ures		Demonto
0 5		<u> </u>	Color (moist)	<u>%</u>	Туреч	Loc ² lexture	Remarks
0-5	10YR 2/2	100		· —		Slit Loar	n
5 - 18	TUYR 3/6	100		·		Slit Loai	n
		·		· —			
				-			
				-			
		·		· —		<u> </u>	
				·			
				·			
				·			
				·			
				·			
¹ Type: C = 0	Concentration, D =	Depletic	on, RM = Reduced	Mat	rix, MS =	Masked Sand Grains. ²	Location: PL = Pore Lining, M = Matrix.
Hydric Soil	Indicators:						Indicators for Problematic Hydric Soils ³ :
Histoso	I (A1)		Polyvalue Be	low S	urface (S	8) (LRR R, MLRA 149B)	2 cm Muck (A10) (LRR K, L, MLRA 149B)
Histic El	pipedon (A2)		Thin Dark Su	rface	(S9) (LRR	R, MLRA 149B)	Coast Prairie Redox (A16) (LRR K, L, R)
Black H	ISTIC (A3) op Sulfido (A4)			y iviin d Ma	ierai (FT) (triv (E2)	(LRR K, L)	5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
Tyurog Stratifie	ed Lavers (A5)		Loany Gleye	u ivia triv (l			Dark Surface (S7) (LRR K, L)
Deplete	d Below Dark Surfa	ace (A11) Redox Dark S	Surfa	ce (F6)		Polyvalue Below Surface (S8) (LRR K, L)
Thick Da	ark Surface (A12)		Depleted Dar	k Su	rface (F7)		Thin Dark Surface (S9) (LRR K, L)
Sandy N	Aucky Mineral (S1)		Redox Depre	ssior	is (F8)		Iron-Manganese Masses (F12) (LRR K, L, R)
Sandy C	Gleyed Matrix (S4)						Piedmont Floodplain Soils (F19) (MLRA 149B)
Sandy F	Redox (S5)						Mesic Spoalc (1A6) (MLRA 144A, 145, 149B)
Strippe	d Matrix (S6)						Ked Parent Material (F21)
Dark Su	urface (S7) (LRR R, N	ILRA 14	9B)				Other (Explain in Remarks)
a. I							
andicators	of hydrophytic veg	etation	and wetland hydr	olog	y must be	e present, unless disturb	ed or problematic.
UACTRICTS /-	Layer (if observed):		Nama			Lhuduia Cail Duanant2	
ResultClive	T		None			Hydric Soll Present?	Yes NO _
Resultive	Type:						
Resultion	Type: Depth (inches):						<u>.</u>
Remarks:	Type: Depth (inches):						
Remarks:	Type: Depth (inches):					1	
Remarks:	Type: Depth (inches):					1	
Remarks:	Type: Depth (inches):						
Remarks:	Type: Depth (inches):						
Remarks:	Type: Depth (inches):						
Remarks:	Type: Depth (inches):						
Remarks:	Type: Depth (inches):						
Remarks:	Type: Depth (inches):						
Remarks:	Type: Depth (inches):						
Remarks:	Type: Depth (inches):						
Remarks:	Type: Depth (inches):						
Remarks:	Type: Depth (inches):						
Remarks:	Type: Depth (inches):						
Remarks:	Type: Depth (inches):						
Remarks:	Type: Depth (inches):						
Remarks:	Type: Depth (inches):						

Hydrology Photos



Vegetation Photos



US Army Corps of Engineers

Soil Photos





WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: High Rive	er		City/County:	Amsterdam,	, Montgo	omery	County		Sampling Date:	2018	-May-23	
Applicant/Owner: N	lextEra					State:	New Yo	rk	Sampling Point:	W-DJL-	01; UPL-2	
Investigator(s): Don	Lockwood, Ka	te McGowan			Section,	Towns	ship, Ran	ge:				
Landform (hillslope, te	rrace, etc.):	Hilltop		Local re	elief (cor	ncave,	convex, r	none):	Convex		Slope (%):	1-10
Subregion (LRR or MLF	RA): LRR I	-		I	Lat: 42.8	897910)2	Long:	-74.1390527	[Datum: WG	iS84
Soil Map Unit Name:	Darien silt lo	am 3 to 8 perce	nt slopes						NWI classifi	cation:	Non-Wetla	and
Are climatic/hydrologic	c conditions or	the site typical	for this time	of year?	Ye	es 🟒	_ No	_ (If no	o, explain in Rema	arks.)		
Are Vegetation,	Soil,	or Hydrology	significant	tly disturbed	?	Are "N	ormal Ci	rcumst	ances" present?	Ye	es 🟒 No _	
Are Vegetation,	Soil,	or Hydrology	naturally	problematic?	,	(If nee	ded, exp	lain an	y answers in Rem	narks.)		

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes No								
Hydric Soil Present?	Yes No 🟒	Is the Sampled Area within a Wetland?	Yes No 🟒						
Wetland Hydrology Present?	Yes No	lf yes, optional Wetland Site ID:							
Remarks: (Explain alternative procedures here or in a separate report)									
TRC covertype is UPL. Area is upland, not all t	hree wetland parameter	s are present.							

HYDROLOGY

Wetland Hydrology Indicators:				
Primary Indicators (minimum of on	e is required; check all that apply)	Secondary Indicators (minimum of two required)		
Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2)	Water-Stained Leaves (B9) Aquatic Fauna (B13) Marl Deposits (B15) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Roots (C3)	 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) 		
Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Ima Sparsely Vegetated Concave Sur	 Stunted or Stressed Plants (D1) Geomorphic Position (D2) Shallow Aquitard (D3) Microtopographic Relief (D4) FAC-Neutral Test (D5) 			
Field Observations:				
Surface Water Present?	Yes No 🟒 Depth (inches):			
Water Table Present?	Yes No Depth (inches):	Wetland Hydrology Present? Yes No		
Saturation Present?	Yes No _			
(includes capillary fringe)				
Describe Recorded Data (stream ga	uge, monitoring well, aerial photos, previous inspections), if	available:		
Remarks:				
No positive indication of wetland hy	/drology was observed.			

VEGETATION -- Use scientific names of plants.

Sampling Point: W-DJL-01; UPL-2

Tree Stratum (Plot size: <u>30 ft</u>)	Absolute	Dominant	Indicator	Dominance Test work	sheet:		
	% Cover	Species?	Status	- Number of Dominant	Species That	0	(A)
1				Total Number of Dom	unant Species		
2.				- Across All Strata:	intant species	2	(B)
3.				Percent of Dominant	Species That		
4.				- Are OBL, FACW, or FA	c:	0	(A/B)
5.				- Prevalence Index wor	ksheet:		
6.				- <u>Total % Cove</u>	er of:	<u>Multiply</u>	<u>By:</u>
7				– OBL species	0	x 1 =	0
	0	= lotal Cov	er	FACW species	0	x 2 =	0
<u>Sapling/Shrub Stratum</u> (Plot size: <u>15 ft</u>)				FAC species	0	x 3 =	0
1				– FACU species	120	x 4 =	480
2.				– UPL species	0	x 5 =	0
3				- Column Totals	120	(A)	480 (B)
4				- Prevalence	Index = B/A =	4	
5				- Hydrophytic Vegetatio	on Indicators		
6				1- Rapid Test for	Hvdrophytic V	/egetatior	ı
7				- 2 - Dominance T	r_{i} is $> 50\%$	egetation	•
	0	= Total Cov	er	3 - Prevalence Ir	$dex is < 3.0^1$		
<u>Herb Stratum</u> (Plot size: <u>5 ft</u>)				4 - Morphologic	al Adaptations ¹	¹ (Provide	sunnorting
1. <i>Dactylis glomerata</i>	40	Yes	FACU	 data in Remarks or or 	n a separate sh	neet)	Supporting
2. <i>Trifolium pratense</i>	30	Yes	FACU	Problematic Hyd	drophytic Vege	tation ¹ (Ex	(plain)
3. <i>Galium mollugo</i>	20	No	FACU	Indicators of hydric s	oil and wetlan	d hydrolo	gy must be
4. Medicago lupulina	15	No	FACU	present, unless distur	bed or probler	matic	05
5. <i>Plantago lanceolata</i>	15	No	FACU	 Definitions of Vegetat	ion Strata:		
6				_ Tree – Woody plants 3	3 in. (7.6 cm) or	r more in	diameter at
7.				breast height (DBH), r	egardless of h	eight.	
8.				Sapling/shrub - Wood	dy plants less tl	han 3 in. I	OBH and
9.				greater than or equal	to 3.28 ft (1 m) tall.	
10.				Herb – All herbaceous	s (non-woody)	plants, re	gardless of
11.				size, and woody plant	s less than 3.2	8 ft tall.	
12.				Woody vines – All woo	ody vines great	ter than 3	.28 ft in
	120	= Total Cov	er	height.			
Woody Vine Stratum (Plot size: 30 ft)		-		Hydrophytic Vegetati	ion Present?	Yes N	No 🖌
1.							
2				-			
3				-			
				-			
4		- Total Cov	or	-			
4	0						

SOIL

Sampling Point: W-DJL-01; UPL-2

Profile Des	cription: (Describe	to the d	lepth needed to c	locun	nent the i	indicato	r or confirm the a	bsence of indicators.)
Depth	Matrix		Redox	< Feat	ures		_	
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Туре1	Loc ²	Texture	Remarks
0 - 9	10YR 3/2	100		. <u> </u>			Silt Loam	n
9 - 10	10YR 3/2	90	10YR 4/6	10	C	M	Silt Loam	n
				·				
				·				
				·				
¹ Type: C = C	Concentration, D =	Depleti	on, RM = Reduced	d Mat	rix, MS =	Masked	Sand Grains. ² Lo	ocation: PL = Pore Lining, M = Matrix.
Hydric Soil	Indicators:							Indicators for Problematic Hydric Soils ³ :
Histoso	l (A1)		Polyvalue Be	low S	urface (S	8) (LRR	R, MLRA 149B)	2 cm Muck (A10) (I PP K I MI PA 1/9B)
Histic Ep	pipedon (A2)		Thin Dark Su	irface	(S9) (LRF	R, MLR	A 149B)	Coast Prairie Redox (A16) (LRK K, L, MEKK 1-5)
Black Hi	istic (A3)		Loamy Muck	y Mir	ieral (F1)	(LRR K, I	_)	5 cm Mucky Peat or Peat (S3) (I RR K I R)
Hydroge	en Sulfide (A4)		Loamy Gleye	ed Ma	trix (F2)			Dark Surface (S7) (LRR K. L)
Stratifie	d Layers (A5)		Depleted Ma	atrix (l	-3)			Polyvalue Below Surface (S8) (LRR K, L)
Deplete	d Below Dark Surf	ace (A11	I) Redox Dark	Surfa	ce (F6)			Thin Dark Surface (S9) (LRR K, L)
I NICK Da	ark Surface (A12)		Depleted Da	rk Su	face (F7))		Iron-Manganese Masses (F12) (LRR K, L, R)
Sandy N	Aucky Mineral (ST)		Redox Depre	essior	IS (F8)			Piedmont Floodplain Soils (F19) (MLRA 149B)
Sandy G	bieyed Matrix (S4)							Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
Sandy F	(edox (S5)							Red Parent Material (F21)
Stripped	d Matrix (S6)							Very Shallow Dark Surface (TF12)
Dark Su	irface (S7) (LRR R, I	MLRA 14	9B)					Other (Explain in Remarks)
³ Indicators	of hydrophytic veg	getation	and wetland hyd	rolog	y must b	e preser	ıt, unless disturbe	ed or problematic.
Restrictive	Layer (if observed)	:			-			
	Type:	S	Stone/gravel			Hydric	Soil Present?	Yes No _
	Depth (inches):		10	•				
Remarks:								

Hydrology Photos



Vegetation Photos

Soil Photos



Photo of Sample Plot

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: High River	City/County	y: Amsterdam, Montgomer	y County	Sampling Date: 20)18-May-23
Applicant/Owner: NextEra		State	: New York	Sampling Point: W-D	JL-01; UPL-3
Investigator(s): Don Lockwood,	Kate McGowan	Section, Tow	nship, Range:		
Landform (hillslope, terrace, etc.):	Hilltop	Local relief (concave	, convex, none):	Convex	Slope (%): 1-10
Subregion (LRR or MLRA):	R L	Lat: 42.8993	417 Long:	-74.1372916	Datum: WGS84
Soil Map Unit Name: Darien sil	t loam 3 to 8 percent slopes			NWI classificatio	on: Non-Wetland
Are climatic/hydrologic conditions	on the site typical for this time	e of year? Yes	🖊 No (If n	o, explain in Remarks.)
Are Vegetation, Soil,	or Hydrology significa	intly disturbed? Are "	Normal Circums	tances" present?	Yes 🟒 No
Are Vegetation, Soil,	or Hydrology naturally	y problematic? (If ne	eded, explain ar	ny answers in Remarks	s.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes No 🟒								
Hydric Soil Present?	Yes 🟒 No	Is the Sampled Area within a Wetland?	Yes No 🟒						
Wetland Hydrology Present?	Yes 🟒 No	If yes, optional Wetland Site ID:							
Remarks: (Explain alternative procedures here or in a separate report)									
TPC coverture is LIPL Area is unland not all	three wetland narameters	are present							

HYDROLOGY

Wetland Hydrology Indicators:						
Primary Indicators (minimum of on	Secondary Indicators (minimum of two required)					
Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2)	Wate Aqua Marl Hydro Oxidi	r-Stained Leaves (B9) tic Fauna (B13) Deposits (B15) ogen Sulfide Odor (C1) zed Rhizospheres on Living	Roots (C3)	 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) 		
Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Ima Sparsely Vegetated Concave Su	Prese Recer Thin I agery (B7) Other rface (B8)	nce of Reduced Iron (C4) nt Iron Reduction in Tilled Sc Muck Surface (C7) r (Explain in Remarks)	oils (C6)	 Stunted or Stressed Plants (D1) Geomorphic Position (D2) Shallow Aquitard (D3) Microtopographic Relief (D4) EAC-Neutral Test (D5) 		
Field Observations:						
Surface Water Present?	Yes No 🟒	Depth (inches):				
Water Table Present?	Yes 🟒 No	Depth (inches):	10	- Wetland Hydrology Present? Yes _∠_ No		
Saturation Present?	Yes 🟒 No	Depth (inches):	8	-		
(includes capillary fringe)				-		
Describe Recorded Data (stream ga	auge, monitoring well,	aerial photos, previous insp	ections), if	available:		
Remarks:						
A positive indication of wetland hyd	drology was observed ((at least two secondary indic	ators).			

VEGETATION -- Use scientific names of plants.

Sampling Point: W-DJL-01; UPL-3

<u>Tree Stratum</u> (Plot size: <u>30 ft</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test wor Number of Dominar	r ksheet: nt Species That	1	(A)
1				Are OBL, FACW, or F.	AC: minant Species		
2				Across All Strata:		5	(B)
4				Percent of Dominan	t Species That	20	(A/R)
5.				Are OBL, FACW, or F	AC:		(/ ())
6.				 Prevalence Index wo 	orksheet:		
7.				- <u>Total % Cov</u>	<u>/er of:</u>	Multiply	<u>' By:</u>
	0	= Total Cov	er	- OBL species	0	x 1 =	0
Sapling/Shrub Stratum (Plot size: 15 ft)		-		FACW species	0	x 2 =	0
1. Rhus aromatica	10	Yes	UPL	FAC species	15	x 3 =	45
2. Rosa multiflora	10	Yes	FACU	- FACU species	135	x 4 =	540
3.				- UPL species	10	x 5 =	50
4.				- Column Totals	160	(A)	635 (B)
5.				- Prevalence	e Index = B/A =	4	
6.				 Hydrophytic Vegetat 	tion Indicators:		
7.				1- Rapid Test fo	or Hydrophytic \	/egetatio	n
···	20	= Total Cov	er	2 - Dominance	Test is > 50%		
Herb Stratum (Plot size: 5 ft)		-		3 - Prevalence	Index is $\leq 3.0^{1}$		
1. Poa pratensis	60	Yes	FACU	4 - Morphologi	cal Adaptations	' (Provide	supporting
2. Solidago altissima	30	Yes	FACU	- data in Remarks or o	on a separate sh	neet)	· · · · 1 · 1 · · · · ·
3. Galium triflorum	20	No	FACU	 Problematic Hy Indicators of budging 	yaropnytic vege	tation' (E	xpiain)
4. Taraxacum officinale	15	No	FACU	nresent unless dist	irbed or proble	u nyuroid matic	bgy must be
5.				Definitions of Vegeta	ation Strata	matic	
6.				Tree - Woody plants	: 3 in (7.6 cm) o	r more in	diameter at
7.				breast height (DBH).	, regardless of h	eight.	didiffecter de
8.					ody plants less t	han 3 in.	DBH and
9.				greater than or equa	al to 3.28 ft (1 m) tall.	
10.				Herb – All herbaceou	us (non-woody)	plants, re	gardless of
11.				size, and woody plar	nts less than 3.2	8 ft tall.	
12.				Woody vines – All wo	oody vines grea	ter than 3	3.28 ft in
	125	= Total Cov	er	height.			
Woody Vine Stratum (Plot size: 30 ft)		-		Hydrophytic Vegeta	ition Present?	Yes	No 🟒
1. Vitis riparia	15	Yes	FAC				
2				-			
3		·		-			
4				-			
· · · · · · · · · · · · · · · · · · ·	15	= Total Cov	er	-			
		-	C.				

SOIL

Profile Des	cription: (Describe	to the c	lepth needed to c	locun	nent the	indicato	r or confirm the at	osence of indicators.)
(inches)	Color (moist)	06	Color (moist)		Type1	1.002	Toxturo	Pomarks
		100			туре	LUC	Silt Loam	
1 - 18	10TR 3/2	90	7 5VP 3//	10		М	Silt Loam	
1-10	1018 3/2		7.516 5/4	10		IVI	Shit Loann	
				·				·
				· —				
				· —				
·				·				· · · · · · · · · · · · · · · · · · ·
				·				
				·				
. <u> </u>				·				
				·				
¹ Type: C = C	Concentration, D =	Depleti	on, RM = Reduced	d Mat	rix, MS =	Masked	Sand Grains. ² Lo	ocation: PL = Pore Lining, M = Matrix.
Hydric Soil	Indicators:							Indicators for Problematic Hydric Soils ³ :
Histoso	l (A1)		Polyvalue Be	low S	Surface (S	58) (LRR	R, MLRA 149B)	2 cm Muck (A10) (LRR K, L, MLRA 149B)
Histic E	pipedon (A2)		Thin Dark Su	irface	(S9) (LR F	R R, MLR	A 149B)	Coast Prairie Redox (A16) (LRR K, L, R)
Black H	istic (A3)		Loamy Muck	y Mir	eral (F1)	(LRR K,	L)	5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
Hydrog	en Sulfide (A4)		Loamy Gleye	ed Ma	trix (F2)			Dark Surface (S7) (LRR K, L)
Stratifie	d Layers (A5)	aco (A1)		atrix (I	-3) co (E6)			Polyvalue Below Surface (S8) (LRR K, L)
Depiete	ark Surface (A12)	ace (AT		suna rk Su	rface (FO)	`		Thin Dark Surface (S9) (LRR K, L)
Sandy M	Aucky Mineral (S1)		Depieted Da		nace (F8))		Iron-Manganese Masses (F12) (LRR K, L, R)
Sandy (Sleved Matrix (S4)			200101	13 (10)			Piedmont Floodplain Soils (F19) (MLRA 149B)
Sandy E	2 edox(55)							Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
Strippo	d Matrix (S6)							Red Parent Material (F21)
Stripper	u Matrix (30) urface (S7) (I PP P I		19B)					Very Shallow Dark Surface (TF12)
			()					Other (Explain in Remarks)
³ Indicators	of hydrophytic veg	getation	and wetland hyd	rolog	y must b	e preser	nt, unless disturbe	d or problematic.
Restrictive	Layer (if observed)):						
	Туре:		None			Hydric	Soil Present?	Yes 🟒 No
	Depth (inches):							
Remarks:								

Hydrology Photos



Vegetation Photos



Soil Photos



Photo of Sample Plot



WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: High River	City/County: Amsterdam, Montgomery County Sampling Date	te: 2018-May-23
Applicant/Owner: NextEra	State: New York Sampling Point	: W-DJL-02; PUB-1
Investigator(s): Don Lockwood, Kate McGowan	Section, Township, Range:	
Landform (hillslope, terrace, etc.): Depressio	Local relief (concave, convex, none): Concave	Slope (%): 0-1
Subregion (LRR or MLRA): LRR L	Lat: 42.8968618 Long: -74.1344446	Datum: WGS84
Soil Map Unit Name: Water	NWI class	ification: PUB
Are climatic/hydrologic conditions on the site typi	al for this time of year? Yes _∠_ No (If no, explain in Rer	narks.)
Are Vegetation, Soil, or Hydrology	significantly disturbed? Are "Normal Circumstances" present	? Yes 🟒 No
Are Vegetation, Soil, or Hydrology	naturally problematic? (If needed, explain any answers in Re	emarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes 🟒 No							
Hydric Soil Present?	Yes 🟒 No	Is the Sampled Area within a Wetland?	Yes 🟒 No _					
Wetland Hydrology Present?	Yes 🟒 No	lf yes, optional Wetland Site ID:	W-DJL-02					
Remarks: (Explain alternative procedures here or in a separate report)								
TRC covertype is PUB. Area is wetland, all thi	ree wetland parameters a	re present.						

HYDROLOGY

Wetland Hydrology Indicators:					
Primary Indicators (minimum of on	e is required: check all	that apply)		Secondary Indicators (minimum of tw	vo required)
 ✓ Surface Water (A1) ✓ High Water Table (A2) ✓ Saturation (A3) Water Marks (B1) Sediment Deposits (B2) 	Water ∕ Aquat Marl I Hydro Oxidiz	-Stained Leaves (B9) ic Fauna (B13) Deposits (B15) gen Sulfide Odor (C1) red Rhizospheres on Living	Roots (C3)	 Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Image 	ery (C9)
 Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Ima Sparsely Vegetated Concave Su 	Presei Recen Thin N agery (B7) Other rface (B8)	nce of Reduced Iron (C4) t Iron Reduction in Tilled So Auck Surface (C7) (Explain in Remarks)	oils (C6)	 Stunted or Stressed Plants (D1) Geomorphic Position (D2) Shallow Aquitard (D3) Microtopographic Relief (D4) FAC-Neutral Test (D5) 	
Field Observations:					
Surface Water Present?	Yes 🟒 No	Depth (inches):	12		
Water Table Present?	Yes 🟒 No	Depth (inches):	0	- Wetland Hydrology Present? Ye	es 🟒 No
Saturation Present?	Yes 🟒 No	Depth (inches):	0	-	
(includes capillary fringe)				-	
Describe Recorded Data (stream ga	auge, monitoring well, a	aerial photos, previous insp	ections), if	available:	
Remarks:					
A positive indication of wetland hyd	drology was observed (primary and secondary ind	icators wer	e present).	

VEGETATION -- Use scientific names of plants.

Sampling Point: W-DJL-02; PUB-1

Tree Stratum (Plot size: <u>30 ft</u>)	Absolute	Dominant	Indicator	Dominance Test worksh	neet:		
	% Cover	Species?	Status		pecies That	4	(A)
1. Fraxinus pennsylvanica		Yes	FACW	Total Number of Domin	ant Species		
2. <u>Salix nigra</u>	15	Yes	OBL	Across All Strata:	une opecies	4	(B)
3.		·		Percent of Dominant Sp	ecies That	100	(4 (D)
4				Are OBL, FACW, or FAC:		100	(A/B)
с				Prevalence Index works	heet:		
o		·		Total % Cover	of:	<u>Multiply</u>	<u>By:</u>
7		Tatal Car		OBL species	25	x 1 =	25
Carling/Church Stratum (Distaine) 15 ft	40		er	FACW species	40	x 2 =	80
Saping/Shrub Stratum (Plot size:)	15	Vac		FAC species	0	x 3 =	0
1. Fraxinus pennsylvanica	15	Yes	FACW	FACU species	0	x 4 =	0
2. Saix nigra	10	res	OBL	UPL species	0	x 5 =	0
3		<u> </u>		Column Totals	65	(A)	105 (B)
4.		·		Prevalence In	dex = B/A =	1.6	
5.		·		Hydrophytic Vegetation	Indicators:		
6.				1- Rapid Test for H	lydrophytic V	egetation	
7				2 - Dominance Tes	st is >50%	0	
	25	= Total Cov	er	3 - Prevalence Inde	ex is $\leq 3.0^1$		
Herb Stratum (Plot size: <u>5 ft</u>)				4 - Morphological	Adaptations	(Provide	supporting
1				data in Remarks or on a	a separate sh	neet)	
2.				Problematic Hydro	ophytic Vege	tation ¹ (Ex	plain)
3				¹ Indicators of hydric soi	l and wetlan	d hydrolog	gy must be
4		·		present, unless disturbe	ed or problei	matic	
5				Definitions of Vegetatio	n Strata:		
6				Tree – Woody plants 3 in	n. (7.6 cm) oı	r more in o	diameter at
7		·		breast height (DBH), reg	gardless of h	eight.	
8		·		Sapling/shrub – Woody	plants less t	han 3 in. E	OBH and
9		·		greater than or equal to) 3.28 π (1 m) tall.	
10				Herb – All nerbaceous (non-woody) loss than 2-2	plants, reg	gardless of
11					vyipos groat	o IL Lall.	20 ft in
12				height	y villes gied		201111
	0	= Total Cov	er			(a	
Woody Vine Stratum (Plot size: <u>30 ft</u>)				Hydrophytic vegetation	h Present?	res N	10
1							
2							
3							
4							
	0	= Total Cov	er				
Remarks: (Include photo numbers here or on a separate	sheet.)						

SOIL

(inches)	Matrix		Redox	Features		
	Color (moist)	%	Color (moist)	% Type ¹	Loc ² Texture	Remarks
0 - 5	10YR 5/1	100		·		
				·		
				·		
				·		
				·		
ype: C = C	Concentration, D = D	Depletic	n, RM = Reduced	Matrix, MS =	Masked Sand Grains.	² Location: PL = Pore Lining, M = Matrix.
/dric Soil I	Indicators:					Indicators for Problematic Hydric Soils ³ :
_ Histosol	(A1)		Polyvalue Be	ow Surface (S	8) (LRR R, MLRA 149B)	2 cm Muck (A10) (LRR K, L, MLRA 149B)
_ Histic Ep	Dipedon (A2)		Thin Dark Su	rface (S9) (LRR (Minoral (E1))	R, MLRA 149B)	Coast Prairie Redox (A16) (LRR K, L, R)
	suc (AS) en Sulfide (A4)		Loamy Gleve	d Matrix (F2)		5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
Stratifie	d Lavers (A5)		✓ Depleted Ma	trix (F3)		Dark Surface (S7) (LRR K, L)
_ Deplete	d Below Dark Surfa	ce (A11) Redox Dark S	Surface (F6)		Polyvalue Below Surface (S8) (LRR K, L)
_ Thick Da	ark Surface (A12)		Depleted Dar	k Surface (F7)		Thin Dark Surface (S9) (LRR K, L)
_ Sandy N	lucky Mineral (S1)		Redox Depre	ssions (F8)		IIOI-Manganese Masses (F12) (LKK K, L, K) Piedmont Eloodolain Soils (E19) (MI PA 1/9B)
_ Sandy G	leyed Matrix (S4)					Mesic Spodic (TA6) (MI RA 144A, 145, 149B)
_ Sandy R	edox (S5)					Red Parent Material (F21)
Stripped	d Matrix (S6)					Very Shallow Dark Surface (TF12)
_ Dark Su	rface (S7) (LRR R, M	LRA 14	9B)			Other (Explain in Remarks)
ndicators	of hydrophytic vege	etation	and wetland hydi	ology must be	e present, unless distur	oed or problematic.
estrictive l	Layer (if observed):					
	Туре:		Clay stone		Hydric Soil Present?	Yes 🟒 No
	Depth (inches):		0			
emarks:						
emarks:						
emarks:						
emarks:						
emarks:						
emarks:						
emarks:						
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Hydrology Photos



Vegetation Photos

Soil Photos



Photo of Sample Plot





WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: High Rive	er		City/County:	Amsterdam,	Montgomery	County		Sampling Date:	2018-May-23
Applicant/Owner: N	lextEra				State:	New Yo	ork	Sampling Point: <u>W</u>	/-DJL-03; PEM-1
Investigator(s): Don	Lockwood, Ka	ite McGowan			Section, Town	ship, Rar	nge:		
Landform (hillslope, te	rrace, etc.):	Depression		Local re	lief (concave,	convex,	none):	Concave	Slope (%): 1-10
Subregion (LRR or MLF	RA): LRR	L		L	at: 42.89686	18	Long:	-74.1344446	Datum: WGS84
Soil Map Unit Name:	Darien							NWI classifica	ation: PEM
Are climatic/hydrologie	c conditions o	n the site typical	for this time	of year?	Yes 🟒	No	_ (If no	o, explain in Remar	ks.)
Are Vegetation,	Soil,	or Hydrology	significant	ly disturbed?	Y Are "N	lormal C	ircumst	ances" present?	Yes 🟒 No
Are Vegetation,	Soil,	or Hydrology	naturally	problematic?	(If nee	eded, exp	olain an	y answers in Rema	rks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes 🟒 No							
Hydric Soil Present?	Yes 🟒 No	Is the Sampled Area within a Wetland?	Yes 🯒 No					
Wetland Hydrology Present?	Yes 🟒 No	If yes, optional Wetland Site ID:	W-DJL-03					
Remarks: (Explain alternative procedures here or in a separate report)								
TRC covertype is PEM. Area is wetland, all th	nree wetland parameters a	are present.						

HYDROLOGY

Wetland Hydrology Indicators:						
Primary Indicators (minimum of on	e is required; check al	Secondary Indicators (minimum of two required)				
 ✓ Surface Water (A1) ✓ High Water Table (A2) ✓ Saturation (A3) Water Marks (B1) Sediment Deposits (B2) 	Wate Aqua Marl Hydr Oxidi	r-Stained Leaves (B9) tic Fauna (B13) Deposits (B15) ogen Sulfide Odor (C1) zed Rhizospheres on Living R	oots (C3)	 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) 		
 Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Ima Sparsely Vegetated Concave Su 	Prese Rece Thin agery (B7) Othe rface (B8)	ence of Reduced Iron (C4) nt Iron Reduction in Tilled Soi Muck Surface (C7) r (Explain in Remarks)	ls (C6)	 Stunted or Stressed Plants (D1) Geomorphic Position (D2) Shallow Aquitard (D3) Microtopographic Relief (D4) ✓ FAC-Neutral Test (D5) 		
Field Observations:						
Surface Water Present?	Yes 🟒 No	Depth (inches):	1			
Water Table Present?	Yes 🟒 No	Depth (inches):	0	Wetland Hydrology Present? Yes No		
Saturation Present?	Yes 🟒 No	Depth (inches):	0			
(includes capillary fringe)						
Describe Recorded Data (stream ga	auge, monitoring well,	aerial photos, previous inspe	ections), if	available:		
Remarks:						
A positive indication of wetland hyd	drology was observed	(primary and secondary indic	ators wer	e present). episaturation (fragipan)		

VEGETATION -- Use scientific names of plants.

Sampling Point: W-DJL-03; PEM-1

Tree Stratum (Plot size: <u>30 ft</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:	That _	
1 Fraxinus nennsylvanica	15	Ves	FACW	Are OBL, FACW, or FAC:	6	(A)
2.			- men	Total Number of Dominant Spe	ecies	(B)
3.				Across All Strata:		(D)
4.				Percent of Dominant Species T	hat 10() (A/B)
5.				Are OBL, FACW, or FAC:		
6.				- Prevalence Index worksheet:	Maria Indiana	. D
7.				OPL species	<u>Mulupi</u>	<u>у Ву:</u> 1 Б
	15	= Total Cov	er		X =	15
Sapling/Shrub Stratum (Plot size: <u>15 ft</u>)		-		FACW species 90	x 2 =	180
1. Viburnum lentago	20	Yes	FAC	FAC species 50	× 3 =	150
2. <i>Rhamnus alnifolia</i>	15	Yes	OBL	FACU species 0	x 4 =	
3. Cornus racemosa	15	Yes	FAC	Calumar Tatala	x 5 =	0
4.				Column lotais 155	(A)	345 (B)
5.				Prevalence Index = E	/A = <u>2.2</u>	
6.				Hydrophytic Vegetation Indicat	ors:	
7.				1- Rapid Test for Hydroph	ytic Vegetatio	n
	50	= Total Cov	er	2 - Dominance Test is >50	1%	
Herb Stratum (Plot size: 5 ft)		-		3 - Prevalence Index is \leq	3.0 ¹	
1. Onoclea sensibilis	45	Yes	FACW	4 - Morphological Adapta	tions ¹ (Provide	e supporting
2. Impatiens capensis	30	Yes	FACW	- data in Remarks or on a separ	ite sneet)	
3. Equisetum arvense	15	No	FAC	Problematic Hydrophytic	vegetation' (E	xpiain)
4.				present unless disturbed or p	coblematic	ogy must be
5.				Definitions of Vegetation Strat		
6.				Tree - Woody plants 3 in (7.6 c	m) or more ir	diameter at
7.				breast height (DBH), regardles	s of height.	
8.				Sapling/shrub – Woody plants	less than 3 in.	DBH and
9.				greater than or equal to 3.28 f	: (1 m) tall.	
10.				Herb – All herbaceous (non-wo	ody) plants, re	egardless of
11.				size, and woody plants less that	n 3.28 ft tall.	
12.				Woody vines – All woody vines	greater than 3	3.28 ft in
	90	= Total Cov	er	height.		
Woody Vine Stratum (Plot size: 30 ft)		-		Hydrophytic Vegetation Prese	nt?Yes 🖌	No
1.						
2				-		
3.		·		-		
4.				-		
···	0	= Total Cov	er	-		
		-	-			
Remarks: (Include photo numbers here or on a sep	oarate sheet.)					

SOIL

Sampling Point: W-DJL-03; PEM-1

Profile Des	cription: (Describe	to the d	epth needed to c	locun	nent the	indicato	r or confirm the a	absence of indicators.)
Depth	Matrix		Redox	k Feat	ures			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0 - 4	10YR 3/2	100					Silt Loam	
4 - 12	10YR 5/1	85	10YR 4/6	15	C	M	Clay	fragipan (episaturation)
		·				·		
	_			_				
						<u> </u>		
				. <u> </u>				
¹ Type: C = C	Concentration, D =	Depleti	on, RM = Reduced	d Mat	rix, MS =	Masked	Sand Grains. ² l	Location: PL = Pore Lining, M = Matrix.
Hydric Soil	Indicators:							Indicators for Problematic Hydric Soils ³ :
Histoso	(A1)		Polyvalue Be	low S	urface (S	58) (LRR I	R, MLRA 149B)	2 cm Muck (A10) (LRR K, L, MLRA 149B)
Histic Ep	oipedon (A2)		I hin Dark Su	irface	(S9) (LRF	(R, MLK/	A 149B)	Coast Prairie Redox (A16) (LRR K, L, R)
Black H	SUC (A3)			y wir d Ma	triv (E2)	(LKK K, I	_)	5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
Hyuruge	d Lavors (A5)		Loanly Gleye	triv ((11X (FZ)			Dark Surface (S7) (LRR K, L)
Stratine	d Below Dark Surf	ace (A11	_• Depieted Ma	Surfa	-5) re (F6)			Polyvalue Below Surface (S8) (LRR K, L)
Thick Da	ark Surface (A12)		Depleted Da	rk Su	rface (F7))		Thin Dark Surface (S9) (LRR K, L)
Sandy N	lucky Mineral (S1)		Redox Depre	ession	ns (F8)	·		Iron-Manganese Masses (F12) (LRR K, L, R)
Sandy (leved Matrix (S4)			235101	15 (10)			Piedmont Floodplain Soils (F19) (MLRA 149B)
Sandy C	adox (SE)							Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
Sandy F	edox (SS)							Red Parent Material (F21)
Strippe	d Matrix (S6)							Very Shallow Dark Surface (TF12)
Dark Su	rface (S7) (LRR R, N	MLRA 14	·9B)					Other (Explain in Remarks)
³ Indicators	of hydrophytic veg	getation	and wetland hyd	rolog	y must b	e preser	it, unless disturb	ed or problematic.
Restrictive	_ayer (if observed) 	: _						
	Туре:	Fr	agipan (clay)			Hydric	Soil Present?	Yes 🟒 No
	Depth (inches):		12					
Remarks:								
l								
l								

Hydrology Photos



Vegetation Photos



Soil Photos



Photo of Sample Plot

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: High River	City/County: Amsterdan	n, Montgomery County	Sampling Date: 2018-May-23		
Applicant/Owner: NextEra		State: New York	Sampling Point: W-DJ	L-03; UPL-1	
Investigator(s): Don Lockwood, Kate McG	iowan	Section, Township, Range	:		
Landform (hillslope, terrace, etc.): Hillto	op Local	relief (concave, convex, no	ne): Convex	Slope (%): 1-10	
Subregion (LRR or MLRA): LRR L		Lat: 42.8999037 Lo	ng: -74.1348786	Datum: WGS84	
Soil Map Unit Name: Darien Silt loam 3 to	o 8% slopes		NWI classificatio	n:	
Are climatic/hydrologic conditions on the sit	te typical for this time of year?	Yes 🟒 No (lf no, explain in Remarks.)		
Are Vegetation, Soil, or Hyde	rology significantly disturbed	d? Are "Normal Circu	umstances" present?	Yes 🟒 No	
Are Vegetation, Soil, or Hyde	rology naturally problematic	? (If needed, explai	n any answers in Remarks	.)	

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes 🟒 No		
Hydric Soil Present?	Yes No 🟒	Is the Sampled Area within a Wetland?	Yes No 🟒
Wetland Hydrology Present?	Yes No	If yes, optional Wetland Site ID:	
Remarks: (Explain alternative procedures he	ere or in a separate report)		
TRC covertype is UPL. Area is upland, not all	three wetland parameters	s are present.	

HYDROLOGY

Wetland Hydrology Indicators:		
Primary Indicators (minimum of on	e is required; check all that apply)	Secondary Indicators (minimum of two required)
Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2)	Water-Stained Leaves (B9) Aquatic Fauna (B13) Marl Deposits (B15) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Roots (C3)	 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)
Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Ima Sparsely Vegetated Concave Sur	 Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Thin Muck Surface (C7) gery (B7) Other (Explain in Remarks) face (B8) 	 Stunted or Stressed Plants (D1) Geomorphic Position (D2) Shallow Aquitard (D3) Microtopographic Relief (D4) FAC-Neutral Test (D5)
Field Observations:		
Surface Water Present?	Yes No 🟒 Depth (inches):	
Water Table Present?	Yes No Depth (inches):	Wetland Hydrology Present? Yes No
Saturation Present?	Yes No _	
(includes capillary fringe)		
Describe Recorded Data (stream ga	uge, monitoring well, aerial photos, previous inspections), if	available:
Remarks:		
No positive indication of wetland hy	/drology was observed.	

VEGETATION -- Use scientific names of plants.

Sampling Point: W-DJL-03; UPL-1

<u>Tree Stratum</u> (Plot size: <u>30 ft</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test works Number of Dominant	sheet: Species That	Α	(4)
1. Fraxinus pennsylvanica	40	Yes	FACW	Are OBL, FACW, or FAC	2:	4	(A)
2. Prunus serotina	15	Yes	FACU	Total Number of Dom	inant Species	6	(B)
3				Across All Strata:			
4				Are OBL, FACW, or FAC	species That	66.7	(A/B)
5				Prevalence Index worl	ksheet:		
6				Total % Cove	r of:	Multiply	<u>By:</u>
7				OBL species	0	x 1 =	0
	55	= Total Cov	er	FACW species	90	x 2 =	180
<u>Sapling/Shrub Stratum</u> (Plot size: <u>15 ft</u>)				FAC species	65	x 3 =	195
1. <i>Lonicera tatarica</i>	40	Yes	FACU	FACU species	70	x 4 =	280
2. <u>Cornus racemosa</u>	40	Yes	FAC	UPL species	15	x 5 =	75
3				Column Totals	240	(A)	730 (B)
4				Prevalence I	ndex = B/A =	3	. ,
5				Hydrophytic Vegetatio	n Indicators:		
6		. <u> </u>		1- Rapid Test for	Hydrophytic \	/egetation	1
7				2 - Dominance Te	\sim st is >50%	egetation	
	80	= Total Cov	er	. 3 - Prevalence In	dex is $< 3.0^{1}$		
<u>Herb Stratum</u> (Plot size: <u>5 ft</u>)				4 - Morphologica	l Adaptations	1 (Provide	supporting
1. <i>Impatiens capensis</i>	50	Yes	FACW	data in Remarks or on	a separate sh	neet)	Supporting
2. <i>Fragaria vesca</i>	15	No	UPL	Problematic Hyd	rophytic Vege	tation ¹ (E)	(plain)
3. Symphyotrichum ericoides	15	No	FACU	¹ Indicators of hydric se	oil and wetlan	d hydrolo	gy must be
4. <i>Geum canadense</i>	10	No	FAC	present, unless distur	bed or problei	matic	0,
5				Definitions of Vegetati	on Strata:		
6				Tree – Woody plants 3	in. (7.6 cm) oi	r more in	diameter at
7				breast height (DBH), r	egardless of h	eight.	
8				Sapling/shrub - Wood	y plants less t	han 3 in. I	OBH and
9.				greater than or equal	to 3.28 ft (1 m) tall.	
10.				Herb – All herbaceous	(non-woody)	plants, re	gardless of
11.				size, and woody plants	s less than 3.2	8 ft tall.	
12.				Woody vines – All woo	ody vines great	ter than 3	.28 ft in
	90	= Total Cov	er	height.			
<u>Woody Vine Stratum</u> (Plot size: <u>30 ft</u>)		-		Hydrophytic Vegetation	on Present?	Yes 🟒 N	lo
<i>1. Vitis riparia</i>	15	Yes	FAC				
2.							
3.							
4.							
	15	= Total Cov	er				
<i></i>		-	-				
Remarks: (Include photo numbers here or on a se	parate sheet.)						

SOIL

· -	Matrix		Redox	Feat	ures		confirm the a		
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture		Remarks
0 - 10	10YR 3/2	100					Silt Loam		
		<u> </u>							
		. <u> </u>							
ype: C = C	Concentration, D =	Depletic	on, RM = Reduced	Matr	ix, MS =	Masked Sar	nd Grains. ² Lo	ocation: PL = Po	ore Lining, M = Matrix.
ydric Soil I	Indicators:				с <i>(</i> с			Indicators for	Problematic Hydric Soils ³ :
_ Histosol	(A1)		Polyvalue Be	low Si	urface (S	8) (LRR R, N	ILRA 149B)	2 cm Muc	k (A10) (LRR K, L, MLRA 149B)
Black Hi	stic (A3)			Min.	(59) (LRR eral (E1)	(IRR K I)	(DD)	Coast Pra	irie Redox (A16) (LRR K, L, R)
Hvdroge	en Sulfide (A4)		Loamy Gleve	d Mat	trix (F2)			5 cm Muc	ky Peat or Peat (S3) (LRR K, L, R)
Stratifie	d Layers (A5)		Depleted Ma	trix (F	3)			Dark Surf	ace (S7) (LRR K, L)
_ Deplete	d Below Dark Surfa	ace (A11) Redox Dark S	Surfac	e (F6)			Polyvalue	Surface (SO) (LRR K, L)
_ Thick Da	ark Surface (A12)		Depleted Dar	rk Sur	face (F7)			Iron-Man	Janese Masses (E12) (LRR K R)
_ Sandy N	lucky Mineral (S1)		Redox Depre	ssion	s (F8)			Piedmont	Eloodolain Soils (E19) (MI RA 149B)
_ Sandy G	ileyed Matrix (S4)							Mesic Spo	dic (TA6) (MLRA 144A, 145, 149B)
Sandy R	edox (S5)							Red Parer	nt Material (F21)
	Matrix (SG)							Very Shall	ow Dark Surface (TF12)
Strippec									
Strippec Dark Su	rface (S7) (LRR R, M	ILRA 149	9B)					Other (Ex	olain in Remarks)
Strippec Dark Su ndicators (rface (S7) (LRR R, M of hydrophytic veg	ILRA 149	9 B) and wetland hydr	ology	/ must be	e present, u	nless disturbe	Other (Ex	olain in Remarks) ic.
Strippec Dark Su ndicators (estrictive L	rface (S7) (LRR R, N of hydrophytic veg .ayer (if observed):	ILRA 149	9B) and wetland hydr	ology	/ must be	e present, u	nless disturbe	Other (Ex d or problemat	olain in Remarks) ic.
Strippec Dark Su ndicators (estrictive L	rface (S7) (LRR R, M of hydrophytic veg .ayer (if observed): Type:	ILRA 149	9B) and wetland hydr Stone	ology	/ must be	e present, u Hydric Soi	nless disturbe Present?	Other (Ex d or problemat Yes _	olain in Remarks) icNo∕_
Strippec Dark Su ndicators (estrictive L	rface (S7) (LRR R, M of hydrophytic veg .ayer (if observed): Type: Depth (inches):	ILRA 14	9B) and wetland hydr Stone 10	ology	/ must be	e present, u Hydric Soi	nless disturbe l Present?	Other (Exp d or problemat Yes	olain in Remarks) icNo _∠_
Strippec Dark Su ndicators d estrictive L 	rface (S7) (LRR R, M of hydrophytic veg .ayer (if observed): Type: Depth (inches):	ILRA 14	9 B) and wetland hydr Stone 10	ology 	/ must be	e present, u Hydric Soi	nless disturbe	Other (Ex d or problemat Yes _	olain in Remarks) icNo
_ Strippec _ Dark Su ndicators of estrictive L emarks:	rface (S7) (LRR R, M of hydrophytic veg .ayer (if observed): Type: Depth (inches):	ILRA 14	9 B) and wetland hydr Stone 10	ology	/ must be	e present, u Hydric Soi	nless disturbe	Other (Ex d or problemat Yes _	olain in Remarks) icNo
_ Strippec _ Dark Su ndicators of estrictive L estrictive L	rface (S7) (LRR R, M of hydrophytic veg .ayer (if observed): Type: Depth (inches):	ILRA 14	9 B) and wetland hydr Stone 10	-ology -	/ must be	e present, u Hydric Soi	nless disturbe I Present?	Other (Ex _l d or problemat Yes _	olain in Remarks) No_∡
_ Strippec _ Dark Su estrictive L emarks:	rface (S7) (LRR R, M of hydrophytic veg .ayer (if observed): Type: Depth (inches):	ietation	9 B) and wetland hydr Stone 10	ology	/ must be	e present, u Hydric Soi	nless disturbe	Other (Ex d or problemat Yes _	olain in Remarks) .icNo
_ Strippec _ Dark Su estrictive L emarks:	rface (S7) (LRR R, M of hydrophytic veg .ayer (if observed): Type: Depth (inches):	/ILRA 14	9 B) and wetland hydr Stone 10	<u>-</u>	v must be	e present, u Hydric Soi	nless disturbe	Other (Ex d or problemat Yes _	olain in Remarks) icNo∠
_ Strippec _ Dark Su estrictive L	rface (S7) (LRR R, M of hydrophytic veg .ayer (if observed): Type: Depth (inches):	<u>etation</u>	9 B) and wetland hydr Stone 10	-ology	/ must be	e present, u Hydric Soi	nless disturbe	Other (Ex d or problemat Yes	olain in Remarks) icNo∠
_ Strippec _ Dark Su adicators estrictive L	rface (S7) (LRR R, M of hydrophytic veg .ayer (if observed): Type: Depth (inches):	/ILRA 149	9 B) and wetland hydr Stone 10		v must be	e present, u Hydric Soi	nless disturbe	Other (Ex d or problemat Yes _	olain in Remarks) icNo
_ Strippec _ Dark Su adicators estrictive L	rface (S7) (LRR R, M of hydrophytic veg .ayer (if observed): Type: Depth (inches):	/ILRA 14	9 B) and wetland hydr Stone 10	- 	v must be	e present, u Hydric Soi	nless disturbe	Other (Ex d or problemat Yes _	olain in Remarks) No _∠
_ Strippec _ Dark Su adicators - estrictive L emarks:	rface (S7) (LRR R, M of hydrophytic veg .ayer (if observed): Type: Depth (inches):	/ILRA 149	9 B) and wetland hydr Stone 10	- 	v must be	e present, u Hydric Soi	nless disturbe	Other (Ex d or problemat Yes _	olain in Remarks) .icNo∕
_ Strippec _ Dark Su estrictive I emarks:	rface (S7) (LRR R, M of hydrophytic veg .ayer (if observed): Type: Depth (inches):	ILRA 149	9 B) and wetland hydr Stone 10	- -	v must be	e present, u Hydric Soi	nless disturbe	Other (Ex d or problemat Yes _	olain in Remarks) .icNo
_ Strippec _ Dark Su estrictive I emarks:	rface (S7) (LRR R, M of hydrophytic veg .ayer (if observed): Type: Depth (inches):	ILRA 149	9 B) and wetland hydr Stone 10	-	v must be	e present, u Hydric Soi	nless disturbe	Other (Ex d or problemat Yes _	olain in Remarks) ic. No _∠_
_ Strippec _ Dark Su estrictive I	rface (S7) (LRR R, M of hydrophytic veg .ayer (if observed): Type: Depth (inches):	ILRA 149	9 B) and wetland hydr Stone 10	- -	/ must be	e present, u Hydric Soi	nless disturbe	Other (Ex d or problemat Yes _	olain in Remarks) .ic. No _∠_
Strippec Dark Su estrictive I emarks:	rface (S7) (LRR R, M of hydrophytic veg .ayer (if observed): Type: Depth (inches):	ILRA 149	9 B) and wetland hydr Stone 10		/ must be	e present, u Hydric Soi	nless disturbe	Other (Ex d or problemat Yes	olain in Remarks) .icNo∠
Strippec Dark Su estrictive I emarks:	rface (S7) (LRR R, M of hydrophytic veg .ayer (if observed): Type: Depth (inches):	/ILRA 149	9 B) and wetland hydr Stone 10	- -	<u>v must be</u>	e present, u Hydric Soi	nless disturbe	Other (Ex d or problemat Yes	olain in Remarks) .ic. No _∠
Strippec Dark Su estrictive I emarks:	rface (S7) (LRR R, M of hydrophytic veg .ayer (if observed): Type: Depth (inches):	/ILRA 14	9 B) and wetland hydr Stone 10	-	v must be	e present, u Hydric Soi	nless disturbe	Other (Ex d or problemat Yes	olain in Remarks) .ic. No _∠
Strippec Dark Su estrictive I emarks:	rface (S7) (LRR R, M of hydrophytic veg .ayer (if observed): Type: Depth (inches):	ALRA 149	98) and wetland hydr Stone 10	-	<u>v must be</u>	e present, u Hydric Soi	nless disturbe	Other (Ex d or problemat Yes	olain in Remarks) .icNo∠
_ Strippec _ Dark Su estrictive I emarks:	rface (S7) (LRR R, M of hydrophytic veg .ayer (if observed): Type: Depth (inches):	ILRA 14	9B) and wetland hydr Stone 10	- Cology	v must be	e present, u Hydric Soi	nless disturbe	Other (Ex d or problemat Yes	olain in Remarks) .icNo∠
_ Strippec _ Dark Su estrictive I emarks:	rface (S7) (LRR R, M of hydrophytic veg .ayer (if observed): Type: Depth (inches):	ILRA 14	9B) and wetland hydr Stone 10	-	<u>v must be</u>	e present, u Hydric Soi	nless disturbe	Other (Ex d or problemat Yes	olain in Remarks) .icNo

Hydrology Photos



Vegetation Photos
Soil Photos



Photo of Sample Plot

