WETLAND AND STREAM DELINEATION REPORT TRELINA SOLAR ENERGY CENTER PROJECT

TOWN OF WATERLOO SENECA COUNTY, NEW YORK

Part 2 of 2 (Pages 441 - 885)

Prepared For:

Trelina Solar Energy Center, LLC 700 Universe Blvd Juno Beach, FL 33408

Prepared By:

TRC Companies, Inc.
10 Maxwell Drive
Suite 200
Clifton Park, NY 12065





March 2020

Project/Site: Trelina	City/County: Wat	terloo, Seneca		Sampling Date: 2019-June-25		
Applicant/Owner: NextEra		State: NY		Sampling Point: W-NWJ-05; PEM-1		
Investigator(s): Nick DeJohn, N	late Jones	Section, Township,	Range:			
Landform (hillslope, terrace, etc.)): Depression	Local relief (concave, conv	ex, none):_	Concave	Slope (%): 0-1	
Subregion (LRR or MLRA): L	.RR R	Lat: 42.902028495	5 Long:	-76.9308242575	Datum: WGS84	
Soil Map Unit Name: Cosad lo	amy fine sand	-		NWI classification	n:	
Are climatic/hydrologic condition	ns on the site typical for this time of ye	ear? Yes No	_ ∠ (If no,	explain in Remarks.)		
Are Vegetation, Soil,	or Hydrology significantly di	sturbed? Are "Norm	al Circumst	ances" present?	Yes No	
Are Vegetation, Soil,	or Hydrology naturally prob	lematic? (If needed,	explain any	y answers in Remarks	.)	
SUMMARY OF FINDINGS – A	Attach site map showing sampli	ng point locations, trai	nsects, im	portant features,	etc.	
Hydrophytic Vegetation Present	? Yes _ 🗸 No					
Hydric Soil Present?	Yes _ No	Is the Sampled Area withi	in a Wetland	d? Yes	No	
		i				
Wetland Hydrology Present?	Yes No	If yes, optional Wetland S	ite ib.		NWJ-05	
Remarks: (Explain alternative pr	ocedures here or in a separate report	t)				
TRC covertype is PEM. Circumsta	ances are not normal due to agricultu	ıral activities				
HYDROLOGY						
Wetland Hydrology Indicators:			_			
Primary Indicators (minimum of	one is required; check all that apply)		•	/ Indicators (minimum	of two required)	
∕ Surface Water (A1)	Water-Stained Le	aves (B9)		e Soil Cracks (B6)		
<u></u> High Water Table (A2)	∕ Aquatic Fauna (B´			ge Patterns (B10)		
<u></u> Saturation (A3)	Marl Deposits (B1			Frim Lines (B16)		
Water Marks (B1)	Hydrogen Sulfide		-	ason Water Table (C2] h Burrows (C8))	
Sediment Deposits (B2)	Oxidized Rhizosp	heres on Living Roots (C3)		tion Visible on Aerial I	magery (C9)	
Drift Deposits (B3)	Presence of Redu	uced Iron (CA)		d or Stressed Plants (0 7	
Algal Mat or Crust (B4)		ction in Tilled Soils (C6)		orphic Position (D2)	D1)	
Iron Deposits (B5)	Thin Muck Surfac			w Aquitard (D3)		
Inundation Visible on Aerial I				opographic Relief (D4)	
Sparsely Vegetated Concave	· · ·			eutral Test (D5)	,	
Field Observations:						
Surface Water Present?	Yes No Depth	(inches): 2				
Water Table Present?	Yes <u></u> ✓ No Depth	(inches): 0	Wetland H	lydrology Present?	Yes _ _ No	
Saturation Present?		(inches): 0	-	,	•	
(includes capillary fringe)		. ,	-			
	n gauge, monitoring well, aerial photo	s provious inspections) if	available:			
Describe Recorded Data (stream	rgauge, morntoring wen, aeriai prioto	is, previous irispections), ir	avaliable.			
Remarks:						

	Absolute	Dominant	Indicator	Dominance Test worksheet:		
Tree Stratum (Plot size: 30 ft)		Species?	Status	Number of Dominant Species That	4	(4)
1. Populus deltoides	15	Yes	FAC	Are OBL, FACW, or FAC:	4	(A)
2. Acer rubrum	8	Yes	FAC	Total Number of Dominant Species	4	(B)
3.				Across All Strata:		(D)
4.				Percent of Dominant Species That	100	(A/B)
5.				Are OBL, FACW, or FAC:		(/ (/ D)
6.				Prevalence Index worksheet:		
7.				Total % Cover of:	Multiply I	<u>Ву:</u>
/·	23	= Total Cove		OBL species 45	x 1 =	45
Condination of Characterists (Diet sines 15 ft)		_ TOLAT COVE	21	FACW species 0	x 2 =	0
Sapling/Shrub Stratum (Plot size: 15 ft)				FAC species 23	x 3 =	69
1.				FACU species 0	x 4 =	0
2.				- UPL species 0	x 5 =	0
3				- Column Totals 68	(A)	114 (B)
4				Prevalence Index = B/A =	1.7	
5				Hydrophytic Vegetation Indicators:		
6.				1- Rapid Test for Hydrophytic	Vegetation	
7				2 - Dominance Test is >50%	regetation	
	0	= Total Cove	er	✓ 3 - Prevalence Index is $\leq 3.0^{\circ}$		
Herb Stratum (Plot size:5 ft)				4 - Morphological Adaptations	1 (Provide s	supporting
1. <i>Lythrum salicaria</i>	25	Yes	OBL	data in Remarks or on a separate sl		supporting
2. Juncus effusus	20	Yes	OBL	- Problematic Hydrophytic Vege		nlain)
3.				¹Indicators of hydric soil and wetlar		-
4.				present, unless disturbed or proble	-	5,
5.				Definitions of Vegetation Strata:		
6.				Tree – Woody plants 3 in. (7.6 cm) o	r more in c	diameter at
7.				breast height (DBH), regardless of h		
8.				Sapling/shrub – Woody plants less t	-	BH and
9.				greater than or equal to 3.28 ft (1 m		
40				Herb – All herbaceous (non-woody)	plants, reg	gardless of
				size, and woody plants less than 3.2		
11. 12.				Woody vines – All woody vines grea	iter than 3.2	28 ft in
12.	45	= Total Cove		height.		
Wasda Vina Street up (Blat sing) 20 ft	43	_ TOTAL COVE	=1	Hydrophytic Vegetation Present?	Yes 🗸 N	0
Woody Vine Stratum (Plot size: 30 ft)						
1.				-		
2.				-		
3.				-		
4				-		
	0	= Total Cove	er			
Remarks: (Include photo numbers here or on a separa	ite sheet.)					

	Matrix		Redox	Feat	tures				
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type ¹	Loc ²		ture	Remarks
0 - 11	10YR 2/2	95	10YR 5/8	5	C	M		ay Loam	
11 - 20	10YR 5/1	100		_			Sandy C	lay Loam	
	-			-					
		· —		_					
				-					
		- —		-					
	-	· —		-					
				_					
		· —		-					
				_					
		-		_					
Туре: C = (Concentration, D =	Depletic	n, RM = Reduced	Mati	rix, MS =	Masked S	Sand Grains. ² L	ocation: PL = Pore L	ining, M = Matrix.
•	Indicators:								blematic Hydric Soils ³ :
Histoso			Polyvalue Bel	ow S	Surface (S	8) (LRR R	, MLRA 149B)		10) (LRR K, L, MLRA 149B)
Histic E	pipedon (A2)		Thin Dark Sur	rface	(S9) (LRR	R R, MLRA	149B)		Redox (A16) (LRR K, L, R)
	istic (A3)		Loamy Mucky			(LRR K, L))		eat or Peat (S3) (LRR K, L, R)
, .	en Sulfide (A4)		Loamy Gleyed					Dark Surface (
	ed Layers (A5) ed Below Dark Surfa	ace (Δ11	Depleted Mat					-	ow Surface (S8) (LRR K, L)
'	ark Surface (A12)	3CC (ATT	Depleted Dar		. ,)			face (S9) (LRR K, L)
	Mucky Mineral (S1)		Redox Depre			•			se Masses (F12) (LRR K, L, R)
Sandy (Gleyed Matrix (S4)								odplain Soils (F19) (MLRA 149B)
Sandy I	Redox (S5)							Red Parent M	(TA6) (MLRA 144A, 145, 149B)
Sariuy i									
_	d Matrix (S6)							Very Shallow I	Jark Surface (TF12)
Strippe		ILRA 14	9B)					Very Shallow I Other (Explain	Dark Surface (TF12) i in Remarks)
Strippe Dark Su	d Matrix (S6) urface (S7) (LRR R, N			olog	v must be	e present	unless disturbe	Other (Explain	
Strippe Dark Su Indicators	d Matrix (S6) urface (S7) (LRR R, N of hydrophytic veg	etation		olog	y must be	e present	., unless disturbe	Other (Explain	
Strippe Dark Su Indicators	d Matrix (S6) urface (S7) (LRR R, N	etation		olog	y must be		., unless disturbe	Other (Explained or problematic.	
Strippe Dark Su Indicators	d Matrix (S6) urface (S7) (LRR R, N of hydrophytic veg Layer (if observed):	etation	and wetland hydr	olog	y must be			Other (Explained or problematic.	in Remarks)
Strippe Dark Su Indicators Restrictive	d Matrix (S6) urface (S7) (LRR R, N of hydrophytic veg Layer (if observed): Type:	etation	and wetland hydr	olog	y must bo			Other (Explained or problematic.	in Remarks)
Strippe Dark Sundicators estrictive	d Matrix (S6) urface (S7) (LRR R, N of hydrophytic veg Layer (if observed): Type:	etation	and wetland hydr	olog	y must bo			Other (Explained or problematic.	in Remarks)
Strippe Dark Sundicators estrictive	d Matrix (S6) urface (S7) (LRR R, N of hydrophytic veg Layer (if observed): Type:	etation	and wetland hydr	olog	y must be			Other (Explained or problematic.	in Remarks)
Strippe Dark Sundicators estrictive	d Matrix (S6) urface (S7) (LRR R, N of hydrophytic veg Layer (if observed): Type:	etation	and wetland hydr	olog	y must be			Other (Explained or problematic.	in Remarks)
Strippe Dark Sundicators estrictive	d Matrix (S6) urface (S7) (LRR R, N of hydrophytic veg Layer (if observed): Type:	etation	and wetland hydr	olog	y must be			Other (Explained or problematic.	in Remarks)
Strippe Dark Sundicators estrictive	d Matrix (S6) urface (S7) (LRR R, N of hydrophytic veg Layer (if observed): Type:	etation	and wetland hydr	olog	y must be			Other (Explained or problematic.	in Remarks)
Strippe Dark Sundicators estrictive	d Matrix (S6) urface (S7) (LRR R, N of hydrophytic veg Layer (if observed): Type:	etation	and wetland hydr	olog	y must be			Other (Explained or problematic.	in Remarks)
Strippe Dark Sundicators estrictive	d Matrix (S6) urface (S7) (LRR R, N of hydrophytic veg Layer (if observed): Type:	etation	and wetland hydr	olog	y must be			Other (Explained or problematic.	in Remarks)
Strippe Dark Sundicators estrictive	d Matrix (S6) urface (S7) (LRR R, N of hydrophytic veg Layer (if observed): Type:	etation	and wetland hydr	olog	y must be			Other (Explained or problematic.	in Remarks)
Strippe Dark Sundicators estrictive	d Matrix (S6) urface (S7) (LRR R, N of hydrophytic veg Layer (if observed): Type:	etation	and wetland hydr	olog	y must be			Other (Explained or problematic.	in Remarks)
Strippe Dark Sundicators estrictive	d Matrix (S6) urface (S7) (LRR R, N of hydrophytic veg Layer (if observed): Type:	etation	and wetland hydr	olog	y must be			Other (Explained or problematic.	in Remarks)
Strippe Dark Sundicators estrictive	d Matrix (S6) urface (S7) (LRR R, N of hydrophytic veg Layer (if observed): Type:	etation	and wetland hydr	olog	y must be			Other (Explained or problematic.	in Remarks)
Strippe Dark Su Indicators Restrictive	d Matrix (S6) urface (S7) (LRR R, N of hydrophytic veg Layer (if observed): Type:	etation	and wetland hydr	olog	y must be			Other (Explained or problematic.	in Remarks)
Strippe Dark Su Indicators	d Matrix (S6) urface (S7) (LRR R, N of hydrophytic veg Layer (if observed): Type:	etation	and wetland hydr	olog	y must be			Other (Explained or problematic.	in Remarks)
Strippe Dark Su Indicators Restrictive	d Matrix (S6) urface (S7) (LRR R, N of hydrophytic veg Layer (if observed): Type:	etation	and wetland hydr	olog	y must be			Other (Explained or problematic.	in Remarks)
Strippe Dark Su Indicators Restrictive	d Matrix (S6) urface (S7) (LRR R, N of hydrophytic veg Layer (if observed): Type:	etation	and wetland hydr	olog	y must be			Other (Explained or problematic.	in Remarks)
Strippe Dark Su Indicators Restrictive	d Matrix (S6) urface (S7) (LRR R, N of hydrophytic veg Layer (if observed): Type:	etation	and wetland hydr	olog	y must be			Other (Explained or problematic.	in Remarks)
Strippe Dark Sundicators estrictive	d Matrix (S6) urface (S7) (LRR R, N of hydrophytic veg Layer (if observed): Type:	etation	and wetland hydr	olog	y must be			Other (Explained or problematic.	in Remarks)

Hydrology Photos



Vegetation Photos





Project/Site: Trelina	City/County: Wat	erloo, Seneca	Sampling [Sampling Date: 2019-June-25		
Applicant/Owner: NextEra		State: NY	Sampling Poi	Sampling Point: W-NWJ-05; PFO-1		
Investigator(s): Nick DeJohn, N	late Jones	Section, Township,	Range:			
Landform (hillslope, terrace, etc.): Depression	Local relief (concave, conv	ex, none): Concave	Slope (%): 0-1		
Subregion (LRR or MLRA): L	RR L	Lat: 42.902657976	4 Long: -76.9306214	993 Datum: WGS84		
Soil Map Unit Name: Cosad lo	amy fine sand		NWI cla	ssification:		
Are climatic/hydrologic condition	ns on the site typical for this time of ye	ar? Yes No	(If no, explain in Re	emarks.)		
Are Vegetation, Soil,	or Hydrology significantly dis		al Circumstances" prese			
Are Vegetation, Soil,	or Hydrology naturally probl	ematic? (If needed,	explain any answers in	Remarks.)		
SUMMARY OF FINDINGS - A	Attach site map showing sampliı	ng point locations, tra	nsects, important fe	atures, etc.		
Hydrophytic Vegetation Present	:? Yes _ ✓_ No					
Hydric Soil Present?	 Yes _ _ No	Is the Sampled Area with	n a Wetland?	Yes/_ No		
•		·				
Wetland Hydrology Present?	Yes No	If yes, optional Wetland S	ite iD.	W-NWJ-05		
Remarks: (Explain alternative pr	ocedures here or in a separate report)				
TRC covertype is PFO. Wetter the	an average year					
HYDROLOGY						
Wetland Hydrology Indicators:						
Primary Indicators (minimum of	f one is required; check all that apply)		-	minimum of two required)		
<u> ✓</u> Surface Water (A1)	Water-Stained Lea		Surface Soil Cracks			
<u>✓</u> High Water Table (A2)	Aquatic Fauna (B1		Drainage Patterns (
✓ Saturation (A3)	Marl Deposits (B1		 Moss Trim Lines (B1 Dry-Season Water 1			
Water Marks (B1)	Hydrogen Sulfide	neres on Living Roots (C3)	Crayfish Burrows (C			
Sediment Deposits (B2)	Oxidized Rilizospi	ieres on Living Roots (C3)	Saturation Visible o			
Drift Deposits (B3)	Presence of Redu	ced Iron (C4)	Stunted or Stressed			
Algal Mat or Crust (B4)		ction in Tilled Soils (C6)	✓ Geomorphic Position			
Iron Deposits (B5)	Thin Muck Surface		Shallow Aquitard (D			
Inundation Visible on Aerial	Imagery (B7) Other (Explain in F	Remarks)	✓ Microtopographic R	telief (D4)		
Sparsely Vegetated Concave	Surface (B8)		✓ FAC-Neutral Test (D	5)		
Field Observations:						
Surface Water Present?	Yes No Depth	(inches): 3				
Water Table Present?	Yes No Depth	(inches): 0	Wetland Hydrology Pre	esent? Yes No		
Saturation Present?	Yes <u></u> ✓ No Depth	(inches): 0	•			
(includes capillary fringe)		·				
	n gauge, monitoring well, aerial photo:	s, previous inspections), if	available:	·		
	- 88-, · · · · · · · · · · · · · · · · · · ·	-, p				
Remarks:						
Remarks.						

·				T		
<u>Tree Stratum</u> (Plot size: <u>30 ft</u>)		Dominant		Dominance Test worksheet:		
		Species?	Status	Number of Dominant Species That	7	(A)
1. Acer rubrum	40	Yes	FAC	Are OBL, FACW, or FAC:		
2. <i>Fraxinus pennsylvanica</i>	25	Yes	FACW	Total Number of Dominant Species Across All Strata:	7	(B)
3				Percent of Dominant Species That	-	
4				- Are OBL, FACW, or FAC:	100	(A/B)
5				Prevalence Index worksheet:	-	
6				- Total % Cover of:	Multiply I	Rv.
7				- OBL species 30	x 1 =	30
	65	= Total Cov	er	FACW species 80	x 2 =	160
Sapling/Shrub Stratum (Plot size: 15 ft)		_		·	_	
1. Acer rubrum	25	Yes	FAC	· -	x 3 = _	225
2. Fraxinus pennsylvanica	10	Yes	FACW	FACU species 0	x 4 =	0
3. Rhamnus cathartica	10	Yes	FAC	UPL species 0	x 5 =	0
4.				- Column Totals 185	(A) _	415 (B)
5.				Prevalence Index = B/A =	2.2	
6.				Hydrophytic Vegetation Indicators:		
7.				1- Rapid Test for Hydrophytic \	/egetation	
·	<u> </u>	= Total Cov	or	2 - Dominance Test is >50%		
Haula Chushi un (Diat sina) - E ft -)	43	_ 10tal C0V	2 1	\checkmark 3 - Prevalence Index is ≤ 3.01		
Herb Stratum (Plot size:5 ft) 1. Onoclea sensibilis	45	Voc	EAC\\\	4 - Morphological Adaptations	¹ (Provide s	supporting
-	45	Yes	FACW	data in Remarks or on a separate sh	neet)	
2. Carex hystericina	30	Yes	OBL	- Problematic Hydrophytic Vege		
3.				- landicators of hydric soil and wetlan	-	gy must be
4				present, unless disturbed or proble	matic	
5				Definitions of Vegetation Strata:		
6				Tree – Woody plants 3 in. (7.6 cm) o		liameter at
7				breast height (DBH), regardless of h	_	
8.				Sapling/shrub – Woody plants less t		BH and
9.				greater than or equal to 3.28 ft (1 m		
10				Herb – All herbaceous (non-woody)		gardless of
11				size, and woody plants less than 3.2		
12				Woody vines – All woody vines grea	ter than 3.	28 ft in
	75	= Total Cov	er	height.		
Woody Vine Stratum (Plot size: 30 ft)		_		Hydrophytic Vegetation Present?	Yes 🟒 N	0
1.						
2.				-		
3.				-		
4.				-		
		= Total Cov	er	-		
	-	-				
Remarks: (Include photo numbers here or on a sepa	arate sheet.)					

Profile Desc	cription: (Describe Matrix	to the	depth needed to			indicato	r or confirm the a	bsence of indicator	s.)
(inches)	Color (moist)	%	Color (moist)	% %	Type ¹	Loc ²	Tex	ture	Remarks
0 - 11	10YR 2/1	93	7.5YR 4/6	7	C	M/PL	-	lay Loam	Kemarks
11 - 20	2.5Y 3/2	95	7.5YR 4/6	<u>,</u> 5		M		lay Loam	
11-20	2.31 3/2		7.511(4/0			141	- Sandy C	lay Loain	
				- —					
				_					
				- —					
				- —					
				- —					
¹Type: C = C	Concentration, D =	Deplet	ion, RM = Reduce	d Ma	trix, MS	= Masked	Sand Grains. ² L	ocation: PL = Pore L	
Hydric Soil								Indicators for Pro	oblematic Hydric Soils ³ :
Histosol			-				R, MLRA 149B)	2 cm Muck (A	10) (LRR K, L, MLRA 149B)
	oipedon (A2)		Thin Dark S					Coast Prairie l	Redox (A16) (LRR K, L, R)
Black Hi			Loamy Muc				L)	5 cm Mucky P	eat or Peat (S3) (LRR K, L, R)
	en Sulfide (A4)		Loamy Gley					Dark Surface	(S7) (LRR K, L)
	d Layers (A5) d Below Dark Surfa	260 (Depleted M					Polyvalue Beld	ow Surface (S8) (LRR K, L)
'	ark Surface (A12)	ace (A)	Depleted Da			7)			face (S9) (LRR K, L)
	fucky Mineral (S1)		Redox Depr			, ,			ese Masses (F12) (LRR K, L, R)
_	Gleyed Matrix (S4)			055.0	(. 0)				odplain Soils (F19) (MLRA 149B)
-	ledox (S5)							Mesic Spodic	(TA6) (MLRA 144A, 145, 149B)
_	d Matrix (S6)							Red Parent M	
	rface (S7) (LRR R, N	/II RA 1	49R)					-	Dark Surface (TF12)
Dark 3a	riace (57) (Entrity in	VILIO (I	456)					Other (Explair	n in Remarks)
3Indicators	of hydrophytic veg	getation	n and wetland hyd	drolo	gy must l	be preser	nt, unless disturbe	ed or problematic.	
Restrictive I	Layer (if observed):	:							
	Type:		None			Hydric S	Soil Present?		Yes No
	Depth (inches):								
Remarks:									

Hydrology Photos



Vegetation Photos



Project/Site: Trelina	City/County: Wat	erloo, Seneca	Sampling Date: 20	ling Date: 2019-June-25		
Applicant/Owner: NextEra		State: NY	Sampling Point: W-N	IWJ-05; UPL-1		
Investigator(s): Nick DeJohn, Na	ate Jones	Section, Township,	Range:			
Landform (hillslope, terrace, etc.):	Agricultural Field	Local relief (concave, conv	ex, none):Flat	Slope (%): 0-1		
Subregion (LRR or MLRA): LF	RR R	Lat: 42.901971205	2 Long: -76.9310903829	Datum: WGS84		
Soil Map Unit Name: Stafford I	oamy fine sand		NWI classification	on:		
Are climatic/hydrologic conditions	s on the site typical for this time of ye	ear? Yes No	✓ (If no, explain in Remarks.)			
Are Vegetation <u></u> , Soil,	or Hydrology significantly dis		al Circumstances" present?	Yes No		
Are Vegetation, Soil,	or Hydrology naturally probl	lematic? (If needed,	explain any answers in Remark	s.)		
Summary of Findings – A	ttach site map showing sampli	ng point locations, trai	sects, important features,	etc.		
Hydrophytic Vegetation Present?	Yes No _✓ _					
Hydric Soil Present?	Yes No _∠ _	Is the Sampled Area withi	n a Wetland? Ye	es No⁄_		
		<u>'</u>				
Wetland Hydrology Present?	Yes _ ✓ No	If yes, optional Wetland S	te ib.			
Remarks: (Explain alternative pro	ocedures here or in a separate report)				
TRC covertype is UPL. Circumstai	nces are not normal due to agricultur	al activities, Recent rain				
31	J					
HYDROLOGY						
Wetland Hydrology Indicators:						
	one is required; check all that apply)		Secondary Indicators (minimur	n of two required)		
•		(D0)	Surface Soil Cracks (B6)	ir or two required;		
Surface Water (A1) High Water Table (A2)	Water-Stained Lea Aquatic Fauna (B1		Drainage Patterns (B10)			
✓ Saturation (A3)	Aquatic Fauria (B1		Moss Trim Lines (B16)			
Water Marks (B1)	Hydrogen Sulfide		Dry-Season Water Table (C2	2)		
Sediment Deposits (B2)	, ,	neres on Living Roots (C3)	Crayfish Burrows (C8)			
seament beposits (52)	<u> </u>	icres on Eiving Roots (es)	Saturation Visible on Aerial	Imagery (C9)		
Drift Deposits (B3)	Presence of Redu	ced Iron (C4)	Stunted or Stressed Plants	(D1)		
Algal Mat or Crust (B4)	Recent Iron Redu	ction in Tilled Soils (C6)	Geomorphic Position (D2)			
Iron Deposits (B5)	Thin Muck Surface	e (C7)	Shallow Aquitard (D3)			
Inundation Visible on Aerial Ir	magery (B7) Other (Explain in F	Remarks)	Microtopographic Relief (D4	1)		
Sparsely Vegetated Concave S	Surface (B8)		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 <u></u> ✓ No Depth	(inches): 0				
(includes capillary fringe)		· · · · · · · · · · · · · · · · · · ·				
	gauge, monitoring well, aerial photo	c provious inspections) if	mailable.			
Describe Recorded Data (stream	gauge, monitoring well, aeriai prioto:	s, previous irispections), ir	avallable.			
Remarks:						

	Absolute	Dominant	Indicator	Dominance Test worksh	eet:		
Tree Stratum (Plot size:30 ft)		Species?	Status	Number of Dominant Sp	oecies That	0	(4)
1.				Are OBL, FACW, or FAC:		0	(A)
2.				Total Number of Domina	ant Species	1	(D)
3.				Across All Strata:		'	(B)
4.				Percent of Dominant Sp	ecies That	0	(A (D)
				Are OBL, FACW, or FAC:			(A/B)
5.				Prevalence Index works	heet:		
6.				Total % Cover of	<u>of:</u>	<u>Multiply</u>	<u>Ву:</u>
7		 -		OBL species	0	x 1 =	0
	0	= Total Cove	r	FACW species	0	x 2 =	0
Sapling/Shrub Stratum (Plot size: 15 ft)				FAC species	0	x 3 =	0
1				FACU species	40	x 4 =	160
2				UPL species	0	x 5 =	0
3.				Column Totals	40	(A)	160 (B)
4.				_		-	160 (B)
5.				Prevalence Inc	dex = B/A =	4	
6.				Hydrophytic Vegetation			
7.				1- Rapid Test for H		egetation	
/· -		= Total Cove	<u> </u>	2 - Dominance Test	t is > 50%		
Hoch Streeture (Blot since 5 %		_ TOTAL COVE	1	3 - Prevalence Inde	$ex is \le 3.0^{1}$		
Herb Stratum (Plot size:5 ft)	40	\/	FACIL	4 - Morphological A	Adaptations ¹	(Provide	supporting
1. Poa pratensis	40	Yes	FACU	data in Remarks or on a	separate sh	eet)	
2				Problematic Hydro	phytic Veget	tation¹ (Ex	plain)
3				¹ Indicators of hydric soil	and wetland	d hydrolo	gy must be
4				present, unless disturbe	d or probler	matic	
5				Definitions of Vegetation	n Strata:		
6.				Tree – Woody plants 3 in	n. (7.6 cm) or	more in	diameter at
7.				breast height (DBH), reg			
8.				Sapling/shrub - Woody		_	DBH and
9.				greater than or equal to			
40				Herb – All herbaceous (r			gardless of
				size, and woody plants l			
11.				Woody vines - All woody	y vines great	er than 3.	28 ft in
12				height.	,		
	40	_= Total Cove	r	Hydrophytic Vegetation	Drocont? V	/oc N	lo /
Woody Vine Stratum (Plot size: 30 ft)				Trydrophytic vegetation	i i i e serici	C3 1	10 <u>v</u>
1							
2							
3							
4							
	0	= Total Cove	r				
Barrandar (Indiada abata arranda abarranda arranda arranda arranda arranda arranda arranda arranda arranda arr		_					
Remarks: (Include photo numbers here or on a sepa	rate sneet.)						

	cription: (Describe t	o the de	-			indicato	r or confirm the al	osence o	f indicators.)
Depth _	Matrix		Redox				- .		B
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type ¹	Loc ²	Texture		Remarks
0 - 13	10YR 4/2	100		_			Silt Loam		
				_					
				_					
						·			
				_		-			
				-					
				-			_		
1Tup 21 C = C	Concentration D = 1		p DM = Doducod	N/a+		Mackad	Cand Crains 21	acation.	OL - Doro Lining M - Matrix
	Concentration, D = I	zehierio	ıı, kıvı – keduced	ıvıd(ıx, IVIS =	iviasked	Janu Granis. 4L0		PL = Pore Lining, M = Matrix.
Hydric Soil			D-1- 1			.0) (1.55	D MI DA (400)	iriaicat	ors for Problematic Hydric Soils ³ :
Histosol							R, MLRA 149B)	2 cr	n Muck (A10) (LRR K, L, MLRA 149B)
	oipedon (A2)		Thin Dark Su Loamy Muck					Coa	st Prairie Redox (A16) (LRR K, L, R)
Black Hi	en Sulfide (A4)		Loamy Gleye			(LKK K,	L)		n Mucky Peat or Peat (S3) (LRR K, L, R)
	d Layers (A5)		Depleted Ma						k Surface (S7) (LRR K, L)
	d Below Dark Surfa	re (A11)							value Below Surface (S8) (LRR K, L)
	ark Surface (A12)	ice (/ tri)	Depleted Dar)			n Dark Surface (S9) (LRR K, L)
	lucky Mineral (S1)		Redox Depre			,		Iror	n-Manganese Masses (F12) (LRR K, L, R)
_	ileyed Matrix (S4)		Redox Bepre	55101	13 (1 0)			Pied	dmont Floodplain Soils (F19) (MLRA 149B)
-	ledox (S5)							Mes	sic Spodic (TA6) (MLRA 144A, 145, 149B)
-	d Matrix (S6)								Parent Material (F21)
	rface (S7) (LRR R, M	II DA 140	ND)						y Shallow Dark Surface (TF12)
Dark 3u	11ace (37) (LKK K, IV	ILKA 143	, Б)					Oth	er (Explain in Remarks)
3Indicators	of hydrophytic veg	etation a	and wetland hydr	olog	y must b	e preser	nt, unless disturbe	d or prol	plematic.
Restrictive I	_ayer (if observed):								
	Type:	so	l compaction			Hydric	Soil Present?		Yes No⁄_
	Depth (inches):		13						
Remarks: Observed s	oil compaction was	s due to	agricultural activ	ities.					

Hydrology Photos



Vegetation Photos





Project/Site: Trelina	City/County: Wat	erloo, Seneca	Sampling Date: 2019-June-25		
Applicant/Owner: NextEra		State: NY	Sampling Point: W-NWJ-06; PEM-1		
Investigator(s): Nick DeJohn, N	late Jones	Section, Township,	Range:		
Landform (hillslope, terrace, etc.)	: Depression	Local relief (concave, conv	vex, none): Flat Slope (%): 0-1		
Subregion (LRR or MLRA): L	RR L	Lat: 42.901652231	9 Long: -76.9310813305 Datum: WGS84		
Soil Map Unit Name: Cosad lo	amy fine sand		NWI classification:		
Are climatic/hydrologic condition	is on the site typical for this time of ye	ear? Yes No	(If no, explain in Remarks.)		
Are Vegetation, Soil,	or Hydrology significantly di		al Circumstances" present? Yes No		
Are Vegetation, Soil,	or Hydrology naturally prob	lematic? (If needed,	explain any answers in Remarks.)		
SUMMARY OF FINDINGS – A	Attach site map showing sampli	ng point locations, tra	nsects, important features, etc.		
Hydrophytic Vegetation Present	? Yes <u></u> No				
Hydric Soil Present?	Yes <u></u> No	Is the Sampled Area with	in a Wetland? Yes _ 🗸 No		
•		· ·			
Wetland Hydrology Present?	Yes No	If yes, optional Wetland S	ite ID: W-NWJ-06		
Remarks: (Explain alternative pr	ocedures here or in a separate report	:)			
TRC covertype is PEM. Circumsta	ances are not normal due to agricultu	ral activities, wetter than a	verage		
HYDROLOGY					
Wetland Hydrology Indicators:					
	one is required; check all that apply)		Secondary Indicators (minimum of two required)		
✓ Surface Water (A1)	Water-Stained Lea	aves (RQ)	Surface Soil Cracks (B6)		
✓ High Water Table (A2)	Water-stained Lea ⁄ Aquatic Fauna (B1		Drainage Patterns (B10)		
✓ Saturation (A3)	Marl Deposits (B1		Moss Trim Lines (B16)		
Water Marks (B1)	Hydrogen Sulfide		Dry-Season Water Table (C2)		
Sediment Deposits (B2)		heres on Living Roots (C3)	Crayfish Burrows (C8)		
			Saturation Visible on Aerial Imagery (C9)		
Drift Deposits (B3)	Presence of Redu	ced Iron (C4)	Stunted or Stressed Plants (D1)		
Algal Mat or Crust (B4)		ction in Tilled Soils (C6)	Geomorphic Position (D2)		
Iron Deposits (B5)	Thin Muck Surface		Shallow Aquitard (D3)		
Inundation Visible on Aerial		Remarks)	Microtopographic Relief (D4)		
Sparsely Vegetated Concave	Surface (B8)		<u>✓</u> FAC-Neutral Test (D5)		
Field Observations:					
Surface Water Present?	Yes _ No Depth	(inches): 2			
Water Table Present?	Yes No Depth	(inches): 0	Wetland Hydrology Present? Yes No		
Saturation Present?	Yes No Depth	(inches): 0			
(includes capillary fringe)					
	n gauge, monitoring well, aerial photo	s, previous inspections), if	available:		
	8 · 8 · 7 · 1 · 8 · 7 · 1 · 7	.,,			
Remarks:					
Remarks.					

				T			
Tree Stratum (Plot size: 30 ft)		Dominant		Dominance Test workshee			
	% Cover	Species?	Status	Number of Dominant Spe	cies That	2	(A)
1				Are OBL, FACW, or FAC:	- + Ci		
2				Total Number of Dominar Across All Strata:	it species	2	(B)
3				Percent of Dominant Spec	sias That		
4				- Are OBL, FACW, or FAC:	lies mat	100	(A/B)
5				Prevalence Index workshe	not:		
6				- Total % Cover of:		Multiply	D. #
7.				- OBL species	_	Multiply I	-
	0	= Total Cov	er	· · · · · · · · · · · · · · · · · · ·	35	x1=	35
Sapling/Shrub Stratum (Plot size:15 ft)		_		FACW species	13	x 2 =	26
1				FAC species	0	x 3 =	0
2.				FACU species	0	x 4 =	0
3.				- UPL species	0	x 5 =	0
-				- Column Totals	48	(A)	61 (B)
4				- Prevalence Inde	x = B/A =	1.3	
5				Hydrophytic Vegetation In	dicators:		
6				1- Rapid Test for Hyd		egetation	
7				2 - Dominance Test is		-Бесанон	
	0	= Total Cov	er	✓ 3 - Prevalence Index			
Herb Stratum (Plot size:5 ft)				4 - Morphological Ad		(Provide o	supporting
1. Juncus effusus	35	Yes	OBL	- data in Remarks or on a s			supporting
2. <i>Phalaris arundinacea</i>	10	Yes	FACW	Problematic Hydrop	•		nlain)
3. Ranunculus gmelinii	3	No	FACW				
4.				 Indicators of hydric soil a present, unless disturbed 		, .	gy must be
5.				-		Hatic	
6.				_ Definitions of Vegetation S			
				Tree – Woody plants 3 in.			liameter at
7				breast height (DBH), regar			
8				Sapling/shrub – Woody pl			BH and
9				greater than or equal to 3			
10				Herb – All herbaceous (no	-		ardless of
11				size, and woody plants les			20.6-:
12				Woody vines – All woody v	vines great	er than 3	28 π in
	48	= Total Cov	er	height.			
Woody Vine Stratum (Plot size:30 ft)		=		Hydrophytic Vegetation P	Present? \	∕es <u> </u>	0
1.							
2.				-			
3.				=			
4.				-			
<u> </u>	0	= Total Cov	or	-			
		_ 10tal Cov	er				
Remarks: (Include photo numbers here or on a separat	e sheet.)						

(inches)	Matrix		Redox	(Feat	ures				
	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type ¹	Loc²	Text		Remarks
0 - 5	10YR 3/2	95	10YR 6/8	5	C	M	Silty Clay		
5 - 20	10YR 5/1	90	10YR 6/8	10	C		Silty Clay	/ Loam	
				. —					
		_							
				· —					
		- —							
		- —							
				· —					
 Tvpe: C = 0	Concentration, D =	 Depleti	ion, RM = Reduce	d Mat	rix, MS =	Masked S	and Grains. ² L	ocation: PL = Pore	Lining, M = Matrix.
	Indicators:	- 1-1-00	,		,				oblematic Hydric Soils³:
Histoso			Polyvalue Be	elow S	urface (S	8) (LRR R,	MLRA 149B)		.10) (LRR K, L, MLRA 149B)
Histic E	oipedon (A2)		Thin Dark Su						Redox (A16) (LRR K, L, R)
	istic (A3)		Loamy Mucl	-		(LRR K, L)			Peat or Peat (S3) (LRR K, L, R)
	en Sulfide (A4)		Loamy Gley					Dark Surface	
	d Layers (A5) d Below Dark Surfa	oco (A1	Depleted Mark					Polyvalue Bel	ow Surface (S8) (LRR K, L)
	ark Surface (A12)	ice (A i	Depleted Da			ı			rface (S9) (LRR K, L)
	Mucky Mineral (S1)		Redox Depr						ese Masses (F12) (LRR K, L, R)
Sandy C	Gleyed Matrix (S4)		•						odplain Soils (F19) (MLRA 149B)
Sandy F	Redox (S5)							Red Parent M	(TA6) (MLRA 144A, 145, 149B)
Strippe	d Matrix (S6)								Dark Surface (TF12)
Dark Su	rface (S7) (LRR R, N	ILRA 14	49B)					Other (Explai	
Indicators	of hydrophytic veg	etation	and wetland hyd	Irolog	v must he	nresent	unless disturbe		
	Layer (if observed):		Tana Wedana nye	0.08	y mase b	preserie,	diffess distal se	d or problematic.	
Restrictive I			None			Hydric S	oil Present?	Υ	es _ ✓_ No
Restrictive	-			-		, , , , ,			· -
Restrictive	Type:								
	-			-					
	Type:					•			
	Type:					1		_	
	Type:								
	Type:								
	Type:								
	Type:								
	Type:								
	Type:								
	Type:								
	Type:								
	Type:								
	Type:								
Restrictive	Type:								
	Type:								
	Type:								
	Type:								
	Type:								

Hydrology Photos



Vegetation Photos





Project/Site: Trelina	City/County: Wat	erloo, Seneca	Sampling Date: 2019-June-25			
Applicant/Owner: NextEra		State: NY	Sampling Point: W-NWJ-06; UPL-1			
Investigator(s): Nick DeJohn, Na	ate Jones	Section, Township,	Range:			
Landform (hillslope, terrace, etc.):	: Agricultural Field	Local relief (concave, conv	rex, none): Flat Slope (%): 0-1			
Subregion (LRR or MLRA): LF	RR R	Lat: 42.901511709	2 Long: -76.9314306882 Datum: WGS84			
Soil Map Unit Name: Stafford	oamy fine sand		NWI classification:			
Are climatic/hydrologic conditions	s on the site typical for this time of ye	ear? Yes No	(If no, explain in Remarks.)			
Are Vegetation, Soil,	or Hydrology significantly di		al Circumstances" present? Yes No			
Are Vegetation, Soil,	or Hydrology naturally prob	lematic? (If needed,	explain any answers in Remarks.)			
SUMMARY OF FINDINGS – A	ttach site map showing sampli	ng point locations, trai	nsects, important features, etc.			
Hydrophytic Vegetation Present?	Yes No _✓					
Hydric Soil Present?	Yes No	Is the Sampled Area withi	n a Wetland? Yes No/			
		·				
Wetland Hydrology Present?	Yes _ ✓ No	If yes, optional Wetland S	ite ib.			
Remarks: (Explain alternative pro	ocedures here or in a separate report	·)				
TRC covertype is UPL. Circumstai	nces are not normal due to agricultur	ral activities, Recent rain				
LIVEROLOGY						
HYDROLOGY						
Wetland Hydrology Indicators:						
Primary Indicators (minimum of	one is required; check all that apply)		Secondary Indicators (minimum of two required)			
Surface Water (A1)	Water-Stained Lea	aves (B9)	Surface Soil Cracks (B6)			
High Water Table (A2)	Aquatic Fauna (B1		Drainage Patterns (B10)			
✓ Saturation (A3)	Marl Deposits (B1		Moss Trim Lines (B16)			
Water Marks (B1)	Hydrogen Sulfide	Odor (C1)	Dry-Season Water Table (C2)			
Sediment Deposits (B2)	Oxidized Rhizospl	heres on Living Roots (C3)	Crayfish Burrows (C8)			
			Saturation Visible on Aerial Imagery (C9)			
Drift Deposits (B3)	Presence of Redu		Stunted or Stressed Plants (D1)			
Algal Mat or Crust (B4)		ction in Tilled Soils (C6)	Geomorphic Position (D2)			
Iron Deposits (B5)	Thin Muck Surface		Shallow Aquitard (D3)			
Inundation Visible on Aerial In Sparsely Vegetated Concave S		Remarks)	Microtopographic Relief (D4) FAC-Neutral Test (D5)			
Field Observations:	Juliace (Do)		FAC-Neutral Test (D3)			
Surface Water Present?	Voc. No. (Donth	(inches)				
	•	(inches):				
Water Table Present?	•	(inches):	Wetland Hydrology Present? Yes _∠ No			
Saturation Present?	Yes _ V No Depth	(inches): 0				
(includes capillary fringe)						
Describe Recorded Data (stream	gauge, monitoring well, aerial photo	s, previous inspections), if	available:			
Remarks:						

'							
Tree Stratum (Plot size: 30 ft)		Dominant		Dominance Test worksh			
	% Cover	Species?	Status	Number of Dominant S	oecies That	0	(A)
1				Are OBL, FACW, or FAC:			
2.				Total Number of Domin	ant Species	1	(B)
3.				Across All Strata:			`
4.				Percent of Dominant Sp	ecies That	0	(A/B)
5				Are OBL, FACW, or FAC:			
6				Prevalence Index works			
7.	-			Total % Cover of	<u>of:</u>	Multiply	By:
/·	0	= Total Cov	or	OBL species	0	x 1 =	0
Carolina/Charob Charterina (Diatoina) 15 ft		_ 10tal C0V	ei	FACW species	0	x 2 =	0
Sapling/Shrub Stratum (Plot size:15 ft)				FAC species	0	x 3 =	0
1.				FACU species	35	x 4 =	140
				UPL species	0	x 5 =	0
3				Column Totals	35	(A)	140 (B)
4.				Prevalence Inc		4	. (-/
5							
6				Hydrophytic Vegetation		(t - t · ·	
7.				1- Rapid Test for H		egetation	1
	0	= Total Cov	er	2 - Dominance Tes			
Herb Stratum (Plot size:5 ft)		-		3 - Prevalence Inde			
1. Poa pratensis	35	Yes	FACU	4 - Morphological			supporting
2.				data in Remarks or on a			
3.				Problematic Hydro			•
4.	· ——			¹Indicators of hydric soi		-	gy must be
				present, unless disturbe		matic	
5				Definitions of Vegetation			
6	· ——			Tree – Woody plants 3 in			diameter at
7				breast height (DBH), reg			
8				Sapling/shrub - Woody			DBH and
9.				greater than or equal to			
10				Herb – All herbaceous (i			gardless of
11				size, and woody plants l			
12.				Woody vines – All wood	y vines great	er than 3	.28 ft in
	35	= Total Cov	er	height.			
Woody Vine Stratum (Plot size:30 ft)		_		Hydrophytic Vegetation	Present?	/es N	No <u> </u>
1.							
2.							
3.	· ———						
4.							
4.	0	- Total Cov	or	•			
		= Total Cov	er				
Remarks: (Include photo numbers here or on a separat	te sheet.)						

Profile Description: (Describe t Depth Matrix		locument the i	indicator or confirm the	absence of indicators.)
(inches) Color (moist)	% Color (moist)	% Type ¹	Loc ² Textur	re Remarks
0 - 14 10YR 3/2	100	- 19pc	Silt Loa	
0 14 1011(3/2	100			
				
	 -			
	 -			
				
		 		
				
¹ Type: C = Concentration, D = [Depletion, RM = Reduced	d Matrix, MS =	Masked Sand Grains.	² Location: PL = Pore Lining, M = Matrix.
Hydric Soil Indicators:				Indicators for Problematic Hydric Soils ³ :
Histosol (A1)	•		8) (LRR R, MLRA 149B)	2 cm Muck (A10) (LRR K, L, MLRA 149B)
Histic Epipedon (A2)			R, MLRA 149B)	Coast Prairie Redox (A16) (LRR K, L, R)
Black Histic (A3)	•	y Mineral (F1)	(LRR K, L)	5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
Hydrogen Sulfide (A4) Stratified Layers (A5)	Loamy Gleye Depleted Ma			Dark Surface (S7) (LRR K, L)
Stratified Layers (A5) Depleted Below Dark Surfa				Polyvalue Below Surface (S8) (LRR K, L)
Thick Dark Surface (A12)	· · · · · · · · · · · · · · · · · · ·	rk Surface (F7))	Thin Dark Surface (S9) (LRR K, L)
Sandy Mucky Mineral (S1)	Redox Depre			Iron-Manganese Masses (F12) (LRR K, L, R)
Sandy Gleyed Matrix (S4)		, ,		Piedmont Floodplain Soils (F19) (MLRA 149B)
Sandy Redox (S5)				Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
Stripped Matrix (S6)				Red Parent Material (F21)
Dark Surface (S7) (LRR R, M	ILRA 149B)			Very Shallow Dark Surface (TF12)
				Other (Explain in Remarks)
³ Indicators of hydrophytic vege	etation and wetland hyd	rology must be	e present, unless distur	bed or problematic.
Restrictive Layer (if observed):				
Type:	compaction	=	Hydric Soil Present?	Yes No <u>_</u> ✓
Depth (inches):	14			
Remarks: Observed soil compaction was	s due to agricultural activ	rities.		

Hydrology Photos



Vegetation Photos



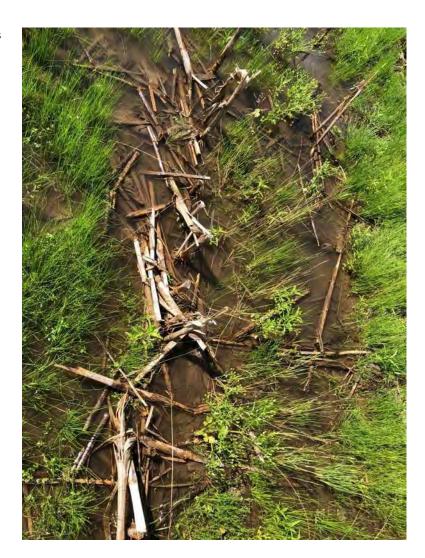


Project/Site: Trelina	City/County	: Waterloo, Seneca	Sar	npling Date: 201	9-June-25		
pplicant/Owner: NextEra		Stat	te: NY Samp	oling Point: W-NV	VJ-07; PEM-1		
vestigator(s): Nick DeJohn, Na	ite Jones	Section, Tov	vnship, Range:				
ndform (hillslope, terrace, etc.):	Depression	Local relief (concav	re, convex, none): Con	cave	Slope (%): 0-1		
ibregion (LRR or MLRA): LF	RR L	Lat: 42.900	6414581 Long: -76.9	308627304	Datum: WGS84		
oil Map Unit Name: Stafford l	oamy fine sand			NWI classification	n:		
e climatic/hydrologic conditions	on the site typical for this time	e of year? Yes _	No <u> </u>	in in Remarks.)			
re Vegetation, Soil,	or Hydrology significa		"Normal Circumstance	•	Yes No ∕ _		
re Vegetation, Soil,	or Hydrology naturally	problematic? (If n	eeded, explain any ans	wers in Remarks.)		
JMMARY OF FINDINGS - A	ttach site map showing sa	impling point location	s, transects, import	ant features, e	etc.		
Hydrophytic Vegetation Present?	Yes _ 🗸 No						
lydric Soil Present?	Yes/_ No	Is the Sampled Are	ea within a Wetland?	Yes	No		
•		i i					
Vetland Hydrology Present?	Yes No	If yes, optional We	tland Site ID:	W-N	WJ-07		
emarks: (Explain alternative pro	cedures here or in a separate	report)					
DC covertype is DEM. Circumsta	nees are not normal due to ag	signifural activities Wetter	than average vear				
RC covertype is PEM. Circumsta	lices are flot floriflat due to agi	icultural activities, wetter	triair average year				
YDROLOGY							
TURULUGI							
Vetland Hydrology Indicators:							
rimary Indicators (minimum of	one is required; check all that a	npoly)	Secondary India	cators (minimum	of two required)		
Timary maleators (minimam or	one is required, effect all that t	<u>,66,77</u>			or two required)		
✓ Surface Water (A1)	Water-Stain	ied Leaves (B9)	Surface Soil				
✓ High Water Table (A2)	_ ∠ Aquatic Fau	na (B13)	Drainage Pa				
✓ Saturation (A3)	Marl Depos	its (B15)		Moss Trim Lines (B16)			
Water Marks (B1)	Hydrogen S	ulfide Odor (C1)		Water Table (C2)			
Sediment Deposits (B2)	Oxidized Rh	nizospheres on Living Roo	ts (C3) — Crayfish Bui	rows (C8)			
_ , , , ,		,	Saturation \	isible on Aerial Ir	nagery (C9)		
Drift Deposits (B3)	Presence of	Reduced Iron (C4)	Stunted or S	Stressed Plants (D	1)		
Algal Mat or Crust (B4)		Reduction in Tilled Soils (•	,		
Iron Deposits (B5)	Thin Muck S	,	Shallow Aqu				
•							
Inundation Visible on Aerial Ir		ain in Remarks)		raphic Relief (D4)			
Sparsely Vegetated Concave S	jurface (B8)		<u></u> FAC-Neutra	Test (D5)			
ield Observations:							
urface Water Present?	Yes No	Depth (inches):	2				
later Table Present?	Yes No	Depth (inches):	0 Wetland Hydro	logy Present?	Yes _ ∠ _ No		
aturation Present?		Depth (inches):	0		. —		
ncludes capillary fringe)		· · · · · —					
Describe Recorded Data (stream	gauge, monitoring well, aerial	photos, previous inspection	ons), if available:				
Remarks:							

Tree Stratum (Plot size:30 ft)	Absolute	Dominant	Indicator	Dominance Test worksheet	:		
1.	% Cover	Species?	Status	Number of Dominant Speci Are OBL, FACW, or FAC:	ies That	1	(A)
2.				Total Number of Dominant	Species	1	(B)
3.				Across All Strata:	_ Th-+		
4				Percent of Dominant SpecieAre OBL, FACW, or FAC:	es mat	100	(A/B)
5				Prevalence Index workshee			
6				Total % Cover of:		Multiply E	<u>Ву:</u>
7				- OBL species	45	x 1 =	45
	0	_= Total Cov	/er	FACW species	0	x 2 =	0
Sapling/Shrub Stratum (Plot size: 15 ft)				FAC species	5	x 3 =	15
1.				FACU species	0	x 4 =	0
2.				UPL species	0	x 5 =	0
3.				Column Totals	50	(A)	60 (B)
4.				Prevalence Index	= B/A =	1.2	
5.				Hydrophytic Vegetation Ind	licators:		
6.				1- Rapid Test for Hydr		egetation	
7				2 - Dominance Test is			
	0	= Total Cov	/er	✓ 3 - Prevalence Index is	s ≤ 3.0¹		
Herb Stratum (Plot size:5 ft)	45	V	OBI	4 - Morphological Ada	ptations1	(Provide s	supporting
1. Juncus effusus	45	Yes	OBL	– data in Remarks or on a sep	parate she	eet)	
2. Rumex crispus	5	No	FAC	Problematic Hydrophy	ytic Veget	ation¹ (Ex _l	plain)
3.				 Indicators of hydric soil an 		, ,	gy must be
4.				_ present, unless disturbed o		natic	
5.				_ Definitions of Vegetation St			
6.				_ Tree – Woody plants 3 in. (7			liameter at
7				breast height (DBH), regard			D
8.				Sapling/shrub – Woody plan greater than or equal to 3.2			BH and
9.				Herb – All herbaceous (non			ardless of
10.				size, and woody plants less		_	ar aress or
11.				Woody vines – All woody vi			28 ft in
12				height.	J		
NV 1 15 G (1701) 20 G)	50	= Total Cov	/er	Hydrophytic Vegetation Pro	esent? Ye	es / N	0
Woody Vine Stratum (Plot size: 30 ft)				.,,,			
1				-			
2				-			
				-			
4		- Total Car		-			
		_= Total Cov	/ei				
Remarks: (Include photo numbers here or on a separat	e sheet.)						

inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Text	ture Remarks
0 - 9	10YR 3/2	95	10YR 6/6	5	С	М	Sandy Cl	lay Loam
9 - 20	10YR 5/2	85	7.5YR 4/6	15	C	_M	Sandy Cl	lay Loam
		- - -						
		· — · —					16 : 21	
	oncentration, D = Indicators:	Jepleti	ion, RM = Reduce	d Mati	TIX, MS =	Masked Sa	ind Grains. ² Lo	ocation: PL = Pore Lining, M = Matrix. Indicators for Problematic Hydric Soils ³ :
Histosol			Polyvalue Be	ع بدر اد	urface (¢	8) (I PP P	MIRA 1/10RN	2 cm Muck (A10) (LRR K, L, MLRA 149B)
_ Stratified _ Depleted _ Thick Da _ Sandy M _ Sandy G _ Sandy R _ Stripped	stic (A3) en Sulfide (A4) d Layers (A5) d Below Dark Surfa erk Surface (A12) flucky Mineral (S1) fleyed Matrix (S4) edox (S5) d Matrix (S6) rface (S7) (LRR R, M		Depleted Da Redox Depr	ed Ma atrix (I Surfa irk Sui	trix (F2) F3) ce (F6) face (F7)			Coast Prairie Redox (A16) (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) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149E Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Other (Explain in Remarks)
	of hydrophytic veg		and wetland hyd	rolog	y must be	present,	unless disturbe	d or problematic.
	_ayer (if observed): Type:		None			Hydric Sc	oil Present?	Yes _ ✓_ No
	Depth (inches):					,		

Hydrology Photos



Vegetation Photos





Project/Site: Trelina	City/County: Wat	terloo, Seneca	Sampling Date:	: 2019-June-25		
Applicant/Owner: NextEra		State: NY	Sampling Point:	W-NWJ-07; UPL-1		
Investigator(s): Nick DeJohn, Na	ate Jones	Section, Township,	Range:			
Landform (hillslope, terrace, etc.):	: Agricultural Field	Local relief (concave, conv	ex, none): Flat	Slope (%): 0-1		
Subregion (LRR or MLRA): Li	RR L	Lat: 42.9004234868	B Long: -76.931050066	Datum: WGS84		
Soil Map Unit Name: Stafford I	oamy fine sand		NWI classifi	cation:		
Are climatic/hydrologic conditions	s on the site typical for this time of ye	ear? Yes No	✓ (If no, explain in Remar	·ks.)		
Are Vegetation, Soil,	or Hydrology significantly di		l Circumstances" present?	Yes No _ ✓ _		
Are Vegetation, Soil,	or Hydrology naturally prob		explain any answers in Rem	iarks.)		
SLIMMARY OF FINDINGS - A	ttach site map showing sampli	ng noint locations, tran	sects important featur	res etc		
SOMMAN OF THE STAGE A	ttach site map snowing sampii	ng point locations, trail	iscets, important reatar			
Hydrophytic Vegetation Present?	Yes <u></u> No					
Hydric Soil Present?	Yes No _ _/ _	Is the Sampled Area with	n a Wetland?	Yes No		
Wetland Hydrology Present?	Yes No	If yes, optional Wetland S	ite ID:			
	ocedures here or in a separate report			_		
Remarks. (Explain alternative pro	reduces here of in a separate report	L)				
TRC covertype is UPL. Circumsta	nces are not normal due to agricultu	ral activities, Recent rain				
HYDROLOGY						
NA/atland Hindualam Indiantam						
Wetland Hydrology Indicators:	and the second second all the second A		Constant to disastern fortists			
Primary Indicators (minimum of	one is required; check all that apply)		Secondary Indicators (mini	•		
∕ Surface Water (A1)	Water-Stained Le	aves (B9)	Surface Soil Cracks (B6)			
High Water Table (A2)	Aquatic Fauna (B [.]		Drainage Patterns (B10)			
✓ Saturation (A3)	Marl Deposits (B1		Moss Trim Lines (B16)	. (63)		
Water Marks (B1)	Hydrogen Sulfide	Odor (C1)	Dry-Season Water Table (C2)			
Sediment Deposits (B2)	Oxidized Rhizosp	heres on Living Roots (C3)	Craylish Burrows (C8)	rial Imagan (CO)		
- 15 - L. (DO)			Saturation Visible on Ae			
Drift Deposits (B3)	Presence of Redu		Stunted or Stressed Pla			
Algal Mat or Crust (B4)		ction in Tilled Soils (C6)	Geomorphic Position (D	2)		
Iron Deposits (B5)	Thin Muck Surfac		Shallow Aquitard (D3)	(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
Inundation Visible on Aerial II	· · · · · · · · · · · · · · · · · · ·	Remarks)	Microtopographic Relief	(D4)		
Sparsely Vegetated Concave S	surface (B8)		FAC-Neutral Test (D5)			
Field Observations:						
Surface Water Present?	Yes No Depth	(inches): 1				
Water Table Present?	Yes No _ _/ Depth	(inches):	Wetland Hydrology Present	t? Yes No		
Saturation Present?		(inches): 0				
(includes capillary fringe)						
			<u> </u>			
Describe Recorded Data (stream	gauge, monitoring well, aerial photo	s, previous inspections), if a	vailable:			
Remarks:						

·				Daminana Tarkunadad	4-		
<u>Tree Stratum</u> (Plot size: <u>30 ft</u>)		Dominant		Dominance Test worksl			
	% Cover	Species?	Status	Number of Dominant S Are OBL, FACW, or FAC:		1	(A)
1				Total Number of Domir			
2				- Across All Strata:	iant species	1	(B)
3				Percent of Dominant Sp	necies That		
4				- Are OBL, FACW, or FAC:		100	(A/B)
5				Prevalence Index works			
6				- Total % Cover		Multiply E	Bv:
7				- OBL species	0	x 1 =	0
	0	= Total Cov	er er	FACW species	0	x 2 =	0
Sapling/Shrub Stratum (Plot size:15 ft)				FAC species	10	x 3 =	30
1				– FACU species	0	x 4 =	0
2				UPL species	0	x 5 =	0
3.				Column Totals		_	
4.				_	10	(A) _	30 (B)
5.				Prevalence In	······································	3	
6.				Hydrophytic Vegetation			
7.				1- Rapid Test for H		egetation	
·· -	0	= Total Cov	er	_ ✓ 2 - Dominance Tes			
Herb Stratum (Plot size: 5 ft)		-		_✓_ 3 - Prevalence Ind	ex is $\leq 3.0^{1}$		
1. Juncus tenuis	10	Yes	FAC	4 - Morphological			supporting
2.		163	TAC	data in Remarks or on a			
				Problematic Hydromatic Hydroma			
3.				 Indicators of hydric so 			y must be
4.				_ present, unless disturb	ed or probler	matic	
5				 Definitions of Vegetation 	n Strata:		
6				_ Tree – Woody plants 3 i	n. (7.6 cm) or	more in d	iameter at
7				breast height (DBH), re	gardless of he	eight.	
8				Sapling/shrub - Woody			BH and
9				greater than or equal to	o 3.28 ft (1 m)) tall.	
10.				Herb – All herbaceous (_	ardless of
11.				size, and woody plants			
12.				Woody vines – All wood	ly vines great	er than 3.2	28 ft in
	10	= Total Cov	er	height.			
Woody Vine Stratum (Plot size: 30 ft)	-	=		Hydrophytic Vegetatio	n Present? Y	′es 🟒 No	0
1.							
2.				=			
3.				-			
4.				-			
4.		- Total Ca		-			
	0	= Total Cov	rei				
Remarks: (Include photo numbers here or on a separat	e sheet.)						
Active agricultural field							

Profile Desc	ription: (Describe t Matrix	o the de	epth needed to d Redox			indicato	r or confirm the a	bsence of	indicators.)
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture		Remarks
0 - 14	10YR 4/3	100	Color (Illoist)	70	туре	LUC	Silt Loam		Remarks
0-14	1011/4/3	100		-			Silt Loan		
				-					
				-					
				- —		·			
				- —		·			
				-					
				-					
	_			- —					
	_			- —					
				-		·			
				-					
				-		 .			
	oncentration, D = l	Depletio	n, RM = Reduced	Mati	rix, MS =	Masked	Sand Grains. ² L		L = Pore Lining, M = Matrix.
Hydric Soil								Indicato	rs for Problematic Hydric Soils ³ :
Histoso							R, MLRA 149B)	2 cm	Muck (A10) (LRR K, L, MLRA 149B)
	pipedon (A2)		Thin Dark Su					Coas	t Prairie Redox (A16) (LRR K, L, R)
Black Hi	en Sulfide (A4)		Loamy Mucks Loamy Gleye			(LKK K,	L)	5 cm	Mucky Peat or Peat (S3) (LRR K, L, R)
	d Layers (A5)		Depleted Ma						: Surface (S7) (LRR K, L)
	d Below Dark Surfa	ce (A11						-	value Below Surface (S8) (LRR K, L)
	ark Surface (A12)		Depleted Dar)			Dark Surface (S9) (LRR K, L)
Sandy N	lucky Mineral (S1)		Redox Depre	ssior	ıs (F8)				Manganese Masses (F12) (LRR K, L, R)
Sandy C	ileyed Matrix (S4)								mont Floodplain Soils (F19) (MLRA 149B)
Sandy F	edox (S5)								c Spodic (TA6) (MLRA 144A, 145, 149B)
Stripped	d Matrix (S6)								Parent Material (F21) Shallow Dark Surface (TF12)
Dark Su	rface (S7) (LRR R, M	ILRA 149	9B)					-	er (Explain in Remarks)
21 1: .	61 1 1								•
	of hydrophytic veg	etation a	and wetland nydr	olog	y must b	e preser	it, uniess disturbe	ea or prob	lematic.
	_ayer (if observed):					l la calcata	C-: D		Voc. No. 4
	Type:	S0	il compaction	-		Hyaric	Soil Present?		Yes No⁄_
	Depth (inches):	_	14						,
Remarks:									
Observed s	oil compaction was	due to	agricultural activ	ities.					

Hydrology Photos



Vegetation Photos





Project/Site: Trelina	City/County: Wat	erloo, Seneca	Sampling Date: 20	19-June-25		
Applicant/Owner: NextEra		State: NY	Sampling Point: W-N	WJ-08; PEM-1		
Investigator(s): Nick DeJohn, N	late Jones	Section, Township,	Range:			
Landform (hillslope, terrace, etc.): Depression	Local relief (concave, conv	rex, none): Concave	Slope (%): 0-1		
Subregion (LRR or MLRA):	LRR L	Lat: 42.900324789	8 Long: -76.9304666017	Datum: WGS84		
Soil Map Unit Name: Cosad lo	amy fine sand		NWI classification	on:		
Are climatic/hydrologic condition	ns on the site typical for this time of ye	ear? Yes No	_✓ (If no, explain in Remarks.)			
Are Vegetation, Soil,			al Circumstances" present?	Yes No		
Are Vegetation, Soil,	or Hydrology naturally prob	lematic? (If needed,	explain any answers in Remarks	5.)		
SUMMARY OF FINDINGS - A	Attach site map showing sampli	ng point locations, tra	nsects, important features,	etc.		
Hydrophytic Vegetation Present	t? Yes No					
Hydric Soil Present?	Yes No	Is the Sampled Area with	n a Wetland? Yes	No		
•		}				
Wetland Hydrology Present?	Yes _ ✓ _ No	If yes, optional Wetland S	ite iD: W-I	NWJ-08		
Remarks: (Explain alternative pr	rocedures here or in a separate report	:)				
TRC covertype is PEM. Circumst	ances are not normal due to agricultu	ral activities, Wetter than a	verage year			
HYDROLOGY						
Wetland Hydrology Indicators:						
• ••	f one is required; check all that apply)		Secondary Indicators (minimum	of two required)		
✓ Surface Water (A1)	Water-Stained Lea	avec (R9)	Surface Soil Cracks (B6)	•		
✓ High Water Table (A2)	Water-stained Lea Aquatic Fauna (B1		Drainage Patterns (B10)			
✓ Saturation (A3)	Marl Deposits (B1		Moss Trim Lines (B16)			
Water Marks (B1)	Hydrogen Sulfide		Dry-Season Water Table (C2)		
Sediment Deposits (B2)	, ,	heres on Living Roots (C3)				
•		_	Saturation Visible on Aerial	magery (C9)		
Drift Deposits (B3)	Presence of Redu		Stunted or Stressed Plants (D1)		
Algal Mat or Crust (B4)		ction in Tilled Soils (C6)	Geomorphic Position (D2)			
Iron Deposits (B5)	Thin Muck Surface		Shallow Aquitard (D3)			
Inundation Visible on Aerial		Remarks)	Microtopographic Relief (D4)		
Sparsely Vegetated Concave	Surface (B8)		✓ FAC-Neutral Test (D5)			
Field Observations:						
Surface Water Present?	·	(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	n gauge, monitoring well, aerial photo	s, previous inspections), if	available:	•		
Remarks:						
Remarks.						

·				B : T : 11			
Tree Stratum (Plot size: 30 ft)		Dominant		Dominance Test workshee			
	% Cover	Species?	Status	Number of Dominant Spec Are OBL, FACW, or FAC:	cies mai	2	(A)
1					t Chariar		
2				Total Number of Dominan Across All Strata:	cspecies	2	(B)
3.				Percent of Dominant Spec	ios That		
4				Are OBL, FACW, or FAC:	ies mat	100	(A/B)
5				Prevalence Index workshe	ot:		
6				Total % Cover of:		Multiply	Dv.e.
7.						Multiply I	-
	0	= Total Cove	r	OBL species	25	x1=	25
Sapling/Shrub Stratum (Plot size:15 ft)	-	=		FACW species	50	x 2 =	100
1				FAC species	0	x 3 =	0
2.				FACU species	0	x 4 =	0
3.				UPL species	0	x 5 =	0
-				Column Totals	75	(A)	125 (B)
4				Prevalence Inde	x = B/A =	1.7	
5				Hydrophytic Vegetation In	dicators:		
6				1- Rapid Test for Hyd		egetation	
7				2 - Dominance Test is		-8	
	0	_= Total Cove	er	✓ 3 - Prevalence Index			
Herb Stratum (Plot size: <u>5 ft</u>)				4 - Morphological Ad		(Provide s	supporting
1. <i>Phalaris arundinacea</i>	40	Yes	FACW	data in Remarks or on a se			supporting
2. Scirpus atrovirens	25	Yes	OBL	Problematic Hydroph			nlain)
3. Onoclea sensibilis	10	No	FACW	¹Indicators of hydric soil a	-		
4.				present, unless disturbed		-	sy must be
5.				Definitions of Vegetation S	•	ilatic	
6.				_		more in e	liameter at
7.				Tree – Woody plants 3 in. (breast height (DBH), regar			nameter at
8.				Sapling/shrub – Woody pla			ıP⊔ and
				greater than or equal to 3.			DH allu
9.				Herb – All herbaceous (no			ardless of
10				size, and woody plants les			aruless of
11				Woody vines – All woody v			28 ft in
12				height.	ines great	er triair 5	2010111
	75	_= Total Cove	er		.5 \		
Woody Vine Stratum (Plot size: 30 ft)				Hydrophytic Vegetation P	resent? Y	es N	0
1							
2.							
3.							
4.							
		= Total Cove	r				
		=					
Remarks: (Include photo numbers here or on a separ	ate sheet.)						

inches) Color (moist) \$ % Color (moist) \$ % Type Loc² Texture Remarks 9 - 9 107R 2/2 92 7.5/8/6 8 C M/PL Silty Clay Loam 9 - 15 107R 4/1 95 107R 5/8 5 C M Clay Loam Silve Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. *Location: PL = Pore Lining, M = Matrix, with the concentration of the con	(:ala)	Matrix	0/	Redo:			12	Tavel		Damanka
ype: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. ²Location: PL = Pore Lining, M = Matrix. ydric Soil Indicators: Indicators indicators: Indicators for Problematic Hydric Soils²: Indicators for Problematic Hydric Soils²: Indicators for Problematic Hydric Soils²: Plistosol (A1) Polyvalue Below Surface (S9) (LRR R, MLRA 149B) 2 cm Muck (A10) (LRR K, L, MLRA 149B) 2 cm Muck (A10) (LRR K, L, R) Plydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Depleted Matrix (F3) Depleted Below Dark Surface (S9) (LRR R, MLRA 149B) Polyvalue Below Surface (F6) Depleted Below Dark Surface (A11) ∠ Redox Dark Surface (F6) Thick Dark Surface (A11) ∠ Redox Dark Surface (F6) Thick Dark Surface (A11) ∠ Redox Dark Surface (F7) Polyvalue Below Surface (S9) (LRR K, L) Polyvalue Below Surface (S9) (LRR K, L, R) Polyvalue Below Surface (S7) (LRR K, L) Thin Dark Surface (S7) (LRR K, L) Dark Surface (S7) (LRR K, L) Dark Surface (S7) (LRR K, L) Polyvalue Below Surface (S9) (LRR K, L) Polyvalue Below Surface (S7) (LRR K, L) Dark Surface (S7) (LRR K, L) Polyvalue Below Surface (S9) (LRR K, L) Polyvalue Below Surface (S9) (LRR K, L) Dark Surface (S7) (LRR K, L) Dark Surface (S7) (LRR K, L) Polyvalue Below Surface (S9) (LRR K, L) P	(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type ¹	Loc ²			Remarks
ype: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. **Jecation: PL = Pore Lining, M = Matrix.** *Indicators for Problematic Hydric Soils*: *Indicators for Muck (A10) (LRR K, L, MLRA 149B) *Indicators for Problematic Hydric Soils*: *Indicators for Problematic Hydric Soils*: *Indicators for Problematic Hydric Soils*: *Indicators for Hydric Hydric Soil Present?* *Indicators for Problematic Hydric Soils*: *Indicators for Problematic Hydric Soils*: *Indicators for Problematic Hydric Soils*: *Indicators for Problematic Hydric Soil Present?* *Indicators for Problematic Hydric Soils*: *Indicators for Problematic Hydric Soil Present?* *Indicators for Problematic Hydric Soils*: *Indicators for Problematic Hydric Hydric Soil Present?* *Indicators for Problematic Hydric Soils*: *Indicators for Problematic Hydric Soil Present?* *Indicators for Problematic Hydric Soils*: *Indicators for Problematic Hydric Soil Present?* *Indicators for Problematic Hydric Soils*: *Indicators for Problematic Hydric Soil Present?* *Indicators for Problematic Hydric Soils* *Indicators for Problematic Hydric Soils*: *Indicators for Problematic Hydric Soils* *Indicators fo				-	_					
Indicators for Problematic Hydric Soils*: Histosol (A1)	9-15	1018 4/1	95	1018 5/6			IVI	Clay L	Odiii	
Indicators for Problematic Hydric Soils*: Histosol (A1)			_		_					
Indicators for Problematic Hydric Soils*: Histosol (A1)			- —		- —					
Indicators for Problematic Hydric Soils*: Histosol (A1)			- —		- —					
Indicators for Problematic Hydric Soils*: Histosol (A1)			_		_					
Indicators for Problematic Hydric Soils*: Histosol (A1)			- —		- —					
Indicators for Problematic Hydric Soils*: Histosol (A1)			_		_					
Indicators for Problematic Hydric Soils*: Histosol (A1)			_							
Histosol (A1) — Polyvalue Below Surface (S8) (LRR R, MLRA 149B) — 2 cm Muck (A10) (LRR K, L, MLRA 149B) — 1 histic Epipedon (A2) — Thin Dark Surface (S9) (LRR R, MLRA 149B) — Coast Prairie Redox (A16) (LRR K, L, R) — Stratified Layers (A3) — Loamy Mucky Mineral (F1) (LRR K, L) — 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) — Dark Surface (S7) (LRR K, L) — Dark Surface (S7) (LRR K, L) — Polyvalue Below Surface (S8) (LRR K, L) — Polyvalue Below Surface (S8) (LRR K, L) — Polyvalue Below Surface (S8) (LRR K, L) — Thin Dark 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			Deplet	ion, RM = Reduce	d Ma	trix, MS =	= Masked S	and Grains. ² Lo		
Histic Epipedon (A2)				Polvvalue B	elow	Surface (S8) (LRR R.	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) Dark Surface (S7) (LRR K, L) Polyvalue Below Surface (S8) (LRR K, L) Polyvalue Below Surface (S8) (LRR K, L) Polyvalue Below Surface (S8) (LRR K, L) Polyvalue Below Surface (S9) (LRR K, L)	_	` ,								
		•								
Stratified Layers (A5)	_ Hydroge	en Sulfide (A4)		Loamy Gley	ed M	atrix (F2)				
Depleted Below Dark Surface (A11) ✓ Redox Dark Surface (F6) Thick Dark Surface (A12) Depleted Dark Surface (F7) Iron-Manganese Masses (F12) (LRR K, L, R) Sandy Mucky Mineral (S1) Redox Depressions (F8) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Redox (S5) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Stripped Matrix (S6) Red Parent Material (F21) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Pestrictive Layer (if observed): Type: Hard pan Depth (inches): 15 Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Piedmont Floodplain Soils (F19) (MLRA 149B) Other (Fablain in Remarks) Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Other (Fablain in Remarks) Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L) Iron-Manganese Masses (_ Stratifie	d Layers (A5)								
	_ Deplete	d Below Dark Surfa	ace (A1	1) Redox Dark	Surf	ace (F6)			•	
	_ Thick Da	ark Surface (A12)		Depleted Da	ark Sı	urface (F	7)			
Sandy Redox (S5) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) Strictive Layer (if observed): Type: Hard pan Depth (inches): 15	_ Sandy N	lucky Mineral (S1)		Redox Depr	ressic	ns (F8)				
Sandy Redox (S5) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) andicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. estrictive Layer (if observed): Type: Hard pan Depth (inches): 15 Physics Spodic (TA6) (MLRA 144A, 145, 149B) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) Other (Explain in Remarks) Present	Sandy 0	ileved Matrix (S4)		·						
Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Other (Explain in Remarks)	•									
Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. In the setting in the setting in Remarks in the setting in Remarks	-									
ndicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. estrictive Layer (if observed): Type: Hard pan Depth (inches): 15 Type: No No			ALDA 1	40D)					Very Shallow Dark	Surface (TF12)
estrictive Layer (if observed): Type: Hard pan Depth (inches): 15 Hydric Soil Present? Yes/_ No	_ Dark Su	riace (57) (LKK K, N	ILKA I	4 9B)					Other (Explain in F	Remarks)
Type: Hard pan Hydric Soil Present? Yes _ No Depth (inches): 15				n and wetland hyd	drolo	gy must l	oe present, I	unless disturbe	d or problematic.	
Depth (inches): 15		=	•	Hard pan			Hvdric So	il Present?	Yes	✓ No
-					-		i iyane so	cociic.	.63_	
	erriarks.									

Hydrology Photos



Vegetation Photos





Project/Site: Trelina	City/County:_ Wat	erloo, Seneca	Sa	Sampling Date: 2019-June-25				
Applicant/Owner: NextEra		State: NY	Sam	pling Point: W-NW	'J-08; PFO-1			
Investigator(s): Nick DeJohn, N	late Jones	Section, Township,	Range:					
Landform (hillslope, terrace, etc.	.): Depression	Local relief (concave, conv	/ex, none): Con	cave	Slope (%): 2-5			
Subregion (LRR or MLRA):	LRR R	Lat: 42.900293315	8 Long: -76.9	9303294738	Datum: WGS84			
Soil Map Unit Name: Cosad lo	oamy fine sand			NWI classification:				
Are climatic/hydrologic condition	ns on the site typical for this time of ye	ear? Yes No	(If no, expl	ain in Remarks.)				
Are Vegetation, Soil,	, ,,		al Circumstance	•	es No			
Are Vegetation, Soil,	or Hydrology naturally probl	lematic? (If needed,	explain any ans	swers in Remarks.)				
SUMMARY OF FINDINGS – A	Attach site map showing sampli	ng point locations, tra	nsects, impor	tant features, e	tc.			
Hydrophytic Vegetation Present	t? Yes _ 🗸 No			-				
Hydric Soil Present?	Yes No	Is the Sampled Area with	in a Wetland?	Ves	∠_ No			
		ł						
Wetland Hydrology Present?	Yes _ ✓ _ No	If yes, optional Wetland S	ite ID:	<u>W-NV</u>	VJ-08			
Remarks: (Explain alternative p	rocedures here or in a separate report)						
TRC covertype is PFO. Wetter th	an average year							
HYDROLOGY								
Wetland Hydrology Indicators:								
Primary Indicators (minimum o	f one is required; check all that apply)		-	icators (minimum o	of two required)			
<u> ✓</u> Surface Water (A1)	<u></u> Water-Stained Lea	aves (B9)	Surface Soi					
∕ High Water Table (A2)	Aquatic Fauna (B1	3)	_	atterns (B10)				
<u></u> Saturation (A3)	Marl Deposits (B1		Moss Trim I					
Water Marks (B1)	Hydrogen Sulfide			Water Table (C2)				
Sediment Deposits (B2)	Oxidized Rhizosph	neres on Living Roots (C3)	 Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) 					
Drift Deposits (B3)	Presence of Redu	ced Iron (CA)		Stressed Plants (D1				
Algal Mat or Crust (B4)		ction in Tilled Soils (C6)	Geomorphi		1)			
Iron Deposits (B5)	Thin Muck Surface		Shallow Aquitard (D3)					
Inundation Visible on Aerial			Microtopographic Relief (D4)					
Sparsely Vegetated Concave	Surface (B8)		∕ FAC-Neutra					
Field Observations:								
Surface Water Present?	Yes 🗸 No Depth	(inches): 3						
Water Table Present?	Yes No Depth	(inches): 0	- Wetland Hydro	ology Present?	Yes No			
Saturation Present?	,	(inches): 0	-					
	763 <u>v</u> 110 Deptil	(111c11c3).	-					
(includes capillary fringe)					- -			
Describe Recorded Data (strear	m gauge, monitoring well, aerial photo	s, previous inspections), if	available:					
Remarks:								

	Absolute	Dominant	Indicator	Dominance Test worksheet:		
Tree Stratum (Plot size: 30 ft)		Species?	Status	Number of Dominant Species That	_	
1. Acer rubrum	60	Yes	FAC	Are OBL, FACW, or FAC:	5	(A)
Fraxinus pennsylvanica	20	Yes	FACW	Total Number of Dominant Species	5	(D)
3.			171011	Across All Strata:		(B)
4.				Percent of Dominant Species That	100	(A/B)
5.				Are OBL, FACW, or FAC:		(/// U)
6.				Prevalence Index worksheet:		
7.				Total % Cover of:	Multiply I	<u>Ву:</u>
/		= Total Cove		OBL species 5	x 1 =	5
	80	_= 10tal Cove	er	FACW species 37	x 2 =	74
Sapling/Shrub Stratum (Plot size: 15 ft)	25	.,	516	FAC species 118	x 3 =	354
1. Rhamnus cathartica	35	Yes	FAC	FACU species 0	x 4 =	0
2				UPL species 0	x 5 =	0
3				Column Totals 160	(A)	433 (B)
4				Prevalence Index = B/A =	2.7	
5				Hydrophytic Vegetation Indicators:		
6				1- Rapid Test for Hydrophytic	Vegetation	
7				2 - Dominance Test is >50%	regetation	
	35	= Total Cov	er	\checkmark 3 - Prevalence Index is $\le 3.0^{\circ}$		
Herb Stratum (Plot size:5 ft)				4 - Morphological Adaptations	·1 (Drovido :	supporting
1. Toxicodendron radicans	20	Yes	FAC	data in Remarks or on a separate sl		supporting
2. Onoclea sensibilis	17	Yes	FACW	Problematic Hydrophytic Vege		nlain)
3. Carex stipata	5	No	OBL	Indicators of hydric soil and wetlar		
4. Rhamnus cathartica	3	No	FAC	present, unless disturbed or proble		sy must be
5.				Definitions of Vegetation Strata:	matic	_
6.				Tree – Woody plants 3 in. (7.6 cm) o	r moro in c	diameter at
7.				breast height (DBH), regardless of h		danietei at
8.				Sapling/shrub - Woody plants less t	_	BH and
9.				greater than or equal to 3.28 ft (1 m		Di i dila
40				Herb – All herbaceous (non-woody)		ardless of
				size, and woody plants less than 3.2		,
11.				Woody vines – All woody vines grea		28 ft in
12				height.		
	45	_= Total Cove	er	Hydrophytic Vegetation Present?	Yes ./ N	0
Woody Vine Stratum (Plot size: 30 ft)				Trydrophydd Vegetation i resent.	105 <u>v</u> 10	<u> </u>
1						
2						
3						
4						
	0	_= Total Cov	er			
Remarks: (Include photo numbers here or on a separa	te sheet.)			-		
, , ,	•					

(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Textu	re	Remarks
0 - 11	10YR 3/1	95	10YR 5/8	5			Silty Clay		
		:		_ _ _		<u></u>			
				_ _ _ _		<u></u>			
				_				· · · · · · · · · · · · · · · · · · ·	
Type: C = C	oncentration, D = [epletio	on, RM = Reduced	Mat	rix, MS =	Masked	Sand Grains. ² Lo	cation: PL = Pore Lining, M =	Matrix.
Hydric Soil I	ndicators:	-						Indicators for Problematic I	Hydric Soils³:
Black Hi Hydroge Stratified Depleted Thick Da Sandy M Sandy G Sandy R Stripped Dark Su	ipedon (A2) stic (A3) n Sulfide (A4) d Layers (A5) d Below Dark Surfa rk Surface (A12) ucky Mineral (S1) leyed Matrix (S4) edox (S5) Matrix (S6) rface (S7) (LRR R, M	LRA 14	Depleted Dai Redox Depre	rface y Mir d Ma trix (Gurfa rk Su ssion	(S9) (LRF neral (F1) trix (F2) F3) ce (F6) rface (F7) ns (F8)	R, MLR. (LRR K, I	A 149B) .)	2 cm Muck (A10) (LRR K Coast Prairie Redox (A1 5 cm Mucky Peat or Pea Dark Surface (S7) (LRR k Polyvalue Below Surface Thin Dark Surface (S9) (I Iron-Manganese Masse Piedmont Floodplain Sc Mesic Spodic (TA6) (MLF Red Parent Material (F2 Very Shallow Dark Surfa Other (Explain in Remai	6) (LRR K, L, R) tt (S3) (LRR K, L, R) (, L) e (S8) (LRR K, L) LRR K, L) s (F12) (LRR K, L, R) tills (F19) (MLRA 149B) RA 144A, 145, 149B) 1) tce (TF12)
	of hydrophytic vege	etation	and wetland hydr	olog	y must b	e preser	t, unless disturbed	l or problematic.	
	ayer (if observed):					م نسلم دارا	Cail Duanant?	Von (N	_
	Type:		clay pan			Hyaric	Soil Present?	Yes No	P
Remarks:	Depth (inches):		11						
Full profile v	vas unobtainable c	lue to ii	nundation						

Hydrology Photos



Vegetation Photos



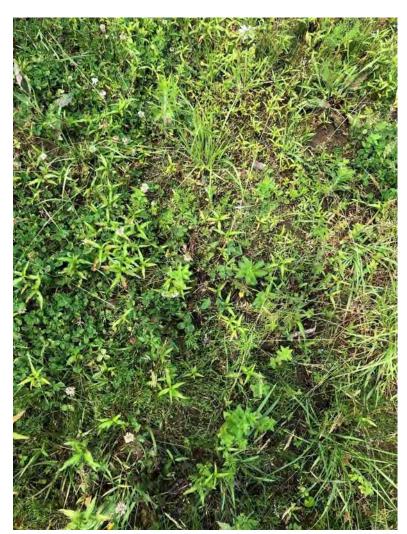


Project/Site: Trelina	City/County: Wat	erloo, Seneca	Sampling Date: 2019-June-25			
Applicant/Owner: NextEra		State: NY	Sampling Point: W-NWJ-08; UPL-1			
Investigator(s): Nick DeJohn, N	late Jones	Section, Township,	Range:			
Landform (hillslope, terrace, etc.)): Agricultural Field	Local relief (concave, conv	rex, none): Flat Slope (%): 0			
Subregion (LRR or MLRA): L	RR L	Lat: 42.900268002	5 Long: -76.930542877 Datum: WG			
Soil Map Unit Name: Stafford	loamy fine sand		NWI classification:			
Are climatic/hydrologic condition	ns on the site typical for this time of ye	ear? Yes No	(If no, explain in Remarks.)			
Are Vegetation, Soil,	or Hydrology significantly di		al Circumstances" present? Yes No _			
Are Vegetation, Soil,	or Hydrology naturally prob	lematic? (If needed,	explain any answers in Remarks.)			
SUMMARY OF FINDINGS – A	Attach site map showing sampli	ng point locations, trai	nsects, important features, etc.			
Hydrophytic Vegetation Present	:? Yes No _√ _					
Hydric Soil Present?	Yes No	Is the Sampled Area withi	n a Wetland? Yes No/			
		}				
Wetland Hydrology Present?	Yes No	If yes, optional Wetland S	ite ID:			
Remarks: (Explain alternative pr	ocedures here or in a separate report	:)				
TRC covertype is UPL. Circumsta	ances are not normal due to agricultur	ral activities, Recent rain				
3.	J					
HYDROLOGY						
Wetland Hydrology Indicators:						
Primary Indicators (minimum of	f one is required; check all that apply)		Secondary Indicators (minimum of two requir			
Surface Water (A1)	Water-Stained Lea	aves (R9)	Surface Soil Cracks (B6)			
High Water Table (A2)	Aquatic Fauna (B1		Drainage Patterns (B10)			
Saturation (A3)	Marl Deposits (B1		Moss Trim Lines (B16)			
Water Marks (B1)	Hydrogen Sulfide		Dry-Season Water Table (C2)			
Sediment Deposits (B2)	, ,	heres on Living Roots (C3)				
			Saturation Visible on Aerial Imagery (C9)			
Drift Deposits (B3)	Presence of Redu	ced Iron (C4)	Stunted or Stressed Plants (D1)			
Algal Mat or Crust (B4)		ction in Tilled Soils (C6)	Geomorphic Position (D2)			
Iron Deposits (B5)	Thin Muck Surface		Shallow Aquitard (D3)			
Inundation Visible on Aerial		Remarks)	Microtopographic Relief (D4)			
Sparsely Vegetated Concave	Surface (B8)		FAC-Neutral Test (D5)			
Field Observations:						
Surface Water Present?	Yes No Depth	(inches):	_			
Water Table Present?	Yes No 🟒 Depth	(inches):	Wetland Hydrology Present? Yes N			
Saturation Present?	Yes No 🟒 Depth	(inches):				
(includes capillary fringe)						
	n gauge, monitoring well, aerial photo	s previous inspections) if:	available:			
Describe recorded bata (stream	Tguage, monitoring well, acriai prioto	s, previous inspections,, in	available.			
Daniel and an and an						
Remarks:						

	Absolute	Dominant	Indicator	Dominance Test worksheet:		
Tree Stratum (Plot size: 30 ft)		Species?	Status	Number of Dominant Species That	: _	
1.	-	·		Are OBL, FACW, or FAC:	0	(A)
2.				Total Number of Dominant Species	3 2	(D)
3.	_			Across All Strata:	2	(B)
				Percent of Dominant Species That	0	(A /D)
4.				Are OBL, FACW, or FAC:		(A/B)
5.				Prevalence Index worksheet:		
6.				Total % Cover of:	<u>Multiply</u>	By:
7				OBL species 0	x 1 =	0
	0	= Total Cove	er	FACW species 0	x 2 =	0
Sapling/Shrub Stratum (Plot size: 15 ft)				FAC species 0	x 3 =	0
1				FACU species 75	x 4 =	300
2				UPL species 20	x 5 =	100
3.				Column Totals 95	(A)	400 (B)
4				Prevalence Index = B/A =	- '' -	400 (B)
5						
6.				Hydrophytic Vegetation Indicators		
7.				1- Rapid Test for Hydrophytic	Vegetation	1
	0	= Total Cove	er	2 - Dominance Test is > 50%		
Herb Stratum (Plot size: <u>5 ft</u>)		=		3 - Prevalence Index is ≤ 3.0 ¹		
1. Trifolium repens	60	Yes	FACU	4 - Morphological Adaptation		supporting
2. Leucanthemum vulgare	20	Yes	UPL	data in Remarks or on a separate s		
3. Dactylis glomerata	15	No	FACU	Problematic Hydrophytic Veg		•
4.		110	17100	¹Indicators of hydric soil and wetla		gy must be
				present, unless disturbed or probl	ematic	
5.				Definitions of Vegetation Strata:		
6.				Tree – Woody plants 3 in. (7.6 cm)		diameter at
7				breast height (DBH), regardless of	_	
8.				Sapling/shrub – Woody plants less		OBH and
9				greater than or equal to 3.28 ft (1		
10				Herb – All herbaceous (non-woody		gardless of
11				size, and woody plants less than 3.		20 %
12				Woody vines – All woody vines gre	ater than 3	.28 π in
	95	= Total Cove	er	height.		
Woody Vine Stratum (Plot size: 30 ft)				Hydrophytic Vegetation Present?	Yes N	No <u> </u>
1.						
2.						
3.						
4.						
	0	= Total Cove	er			
		-				
Remarks: (Include photo numbers here or on a separ	ate sheet.)					

Profile Des	cription: (Describe Matrix	to the d	epth needed to d Redox			indicato	r or confirm the al	bsence of indicators.)
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0 - 6	10YR 4/3	100	Color (IIIoist)		Турс	LOC	Silt Loam	
6 - 20	10YR 4/6	100					Silt Loam	
0 20	1011(4/0	100					Sile Eddill	
	•			-			•	
				_				
				-				
				-				
				_				
				_				
				_				
	•			- —			•	
	•			- —			•	
1T C (D +: -	- DM Deduced				Sand Gualian 31	and the District Manager of the Control of the Cont
	Concentration, D =	Depletic	n, RM = Reduced	wat	rix, ivis =	Masked	Sand Grains. ² Lo	ocation: PL = Pore Lining, M = Matrix.
Hydric Soil			Daharaha Dal	c	6 16	:0\	D 141 D4 4 40D)	Indicators for Problematic Hydric Soils ³ :
Histoso	I (A1) pipedon (A2)		Polyvalue Be Thin Dark Su				R, MLRA 149B) a 149B)	2 cm Muck (A10) (LRR K, L, MLRA 149B)
	istic (A3)		Loamy Muck					Coast Prairie Redox (A16) (LRR K, L, R)
	en Sulfide (A4)		Loamy Gleye			(Litting)	-,	5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
	d Layers (A5)		Depleted Ma					Dark Surface (S7) (LRR K, L)
Deplete	d Below Dark Surf	ace (A11						Polyvalue Below Surface (S8) (LRR K, L)
Thick D	ark Surface (A12)		Depleted Dar	k Su	rface (F7)		Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L, R)
Sandy N	Mucky Mineral (S1)		Redox Depre	ssior	ıs (F8)			Piedmont Floodplain Soils (F19) (MLRA 149B)
Sandy C	Gleyed Matrix (S4)							Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
Sandy F	Redox (S5)							Red Parent Material (F21)
Strippe	d Matrix (S6)							Very Shallow Dark Surface (TF12)
Dark Su	ırface (S7) (LRR R, N	MLRA 14	9B)					Other (Explain in Remarks)
3Indicators	of hydrophytic veg	etation	and wetland hydr	വിവഴ	v must h	e preser	nt. unless disturbe	
	Layer (if observed))			
	Type:		None			Hydric	Soil Present?	Yes No <u>_</u> ✓
	Depth (inches):	-		-		•		
Remarks:	Э срем (менез).							-
Kernarks.								
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1								

Hydrology Photos



Vegetation Photos





Project/Site: Trelina	City/County:_ V	Vaterloo, Seneca	Sampling Da	ate: 2019-June-26
Applicant/Owner: NextEra		State: N	Sampling Poin	t: W-NWJ-22; PEM-1
Investigator(s): Nick DeJohn, N	late Jones	Section, Township	o, Range:	
Landform (hillslope, terrace, etc.): Depression	Local relief (concave, cor	nvex, none): Concave	Slope (%): 0-1
Subregion (LRR or MLRA):	LRR L	Lat: 42.89500686	664 Long: -76.92480219	43 Datum: WGS84
 Soil Map Unit Name: Schohar	ie silty clay loam, 0 to 2 percent slo	pes	NWI class	sification:
Are climatic/hydrologic condition	ns on the site typical for this time of	f year? Yes N	o (If no, explain in Ren	narks.)
Are Vegetation, Soil,	or Hydrology significantly		mal Circumstances" presen	
Are Vegetation, Soil,	or Hydrology naturally pr		d, explain any answers in R	emarks.)
SLIMMARY OF FINDINGS -	Attach site map showing sam	nling noint locations tra	ansects important feat	tures etc
SOMMAN OF THE PROPERTY	Actach site map showing sam	piing point locations, tre	insects, important rea	
Hydrophytic Vegetation Present	t? Yes No	ļ		
Hydric Soil Present?	Yes No	Is the Sampled Area witl	nin a Wetland?	Yes/_ No
Wetland Hydrology Present?	Yes _ _ No	If yes, optional Wetland	Site ID:	W-NWJ-22
	rocedures here or in a separate rep			
remarks. (Explain alternative pi	ocedures fiere of fir a separate rep	ioi tj		
TRC covertype is PEM. Wetter th	ian average vear			
IVDDOLOCY				
HYDROLOGY				
Wetland Hydrology Indicators:				
	f one is required; check all that app	lv)	Secondary Indicators (m	inimum of two required)
•			Surface Soil Cracks (E	•
✓ Surface Water (A1)	Water-Stained		Drainage Patterns (B	•
✓ High Water Table (A2)	Aquatic Fauna		Moss Trim Lines (B16	
✓ Saturation (A3)	Marl Deposits		Dry-Season Water Ta	
Water Marks (B1)	Hydrogen Sulfi	pspheres on Living Roots (C3)		
Sediment Deposits (B2)	Oxidized Rnizo	spheres on Living Roots (C3)	Saturation Visible on	Aerial Imagery (C9)
Drift Deposits (B3)	Prosonce of Po	educed Iron (C4)	Stunted or Stressed I	
Algal Mat or Crust (B4)		duction in Tilled Soils (C6)	Geomorphic Position	
Iron Deposits (B5)	Thin Muck Surf		Shallow Aguitard (D3	
Inundation Visible on Aerial				
		III Remarks)	Microtopographic Re	
Sparsely Vegetated Concave	Surface (B8)		<u>✓</u> FAC-Neutral Test (D5))
Field Observations:				
Surface Water Present?	Yes _ 🗸 No Dep	oth (inches): 4	_	
Water Table Present?	Yes No Dep	pth (inches): 0	Wetland Hydrology Pres	ent? Yes No
Saturation Present?	Yes 🔽 No Dep	oth (inches): 0		
(includes capillary fringe)		·		
			<u> </u>	<u> </u>
Describe Recorded Data (Stream	n gauge, monitoring well, aerial pho	otos, previous inspections), i	r available:	
Remarks:				

Tron Stratum (Diet size, 20 ft)	Absolute	Dominant	Indicator	Dominance Test worksheet:		
Tree Stratum (Plot size: 30 ft) 1.	% Cover	Species?	Status	Number of Dominant Species That Are OBL, FACW, or FAC:	2	(A)
2.				Total Number of Dominant Species	2	(B)
3				Across All Strata: Percent of Dominant Species That		
4				Are OBL, FACW, or FAC:	100	(A/B)
56.				Prevalence Index worksheet:		
7.				Total % Cover of:	<u>Multiply</u>	<u>Ву:</u>
/·		= Total Cov		OBL species 33	x 1 =	33
Capling/Chrub Stratum (Plat size) 15 ft		_ 10tal Co	ver	FACW species 35	x 2 =	70
Sapling/Shrub Stratum (Plot size: 15 ft)				FAC species 0	x 3 =	0
1.				FACU species 0	x 4 =	0
2.				UPL species 0	x 5 =	0
3.				- Column Totals 68	(A)	103 (B)
4.				Prevalence Index = B/A =	1.5	
5				Hydrophytic Vegetation Indicators:		
6			-	1- Rapid Test for Hydrophytic	Vegetation	
7				2 - Dominance Test is >50%	.0	
	0	= Total Co	ver	\checkmark 3 - Prevalence Index is \le 3.01		
Herb Stratum (Plot size:5 ft)				4 - Morphological Adaptation	s¹ (Provide :	supporting
1. <i>Phalaris arundinacea</i>	35	Yes	FACW	- data in Remarks or on a separate s		
2. Juncus effusus	25	Yes	OBL	Problematic Hydrophytic Veg		plain)
3. <i>Typha latifolia</i>	8	No	OBL	_ Indicators of hydric soil and wetla	nd hydrolog	gy must be
4				_ present, unless disturbed or proble	ematic	~
5				Definitions of Vegetation Strata:		
6.				Tree – Woody plants 3 in. (7.6 cm)	or more in o	liameter at
7.				breast height (DBH), regardless of		
8.	<u> </u>			Sapling/shrub – Woody plants less	than 3 in. D	BH and
9.				greater than or equal to 3.28 ft (1 r	n) tall.	
10.				Herb – All herbaceous (non-woody		gardless 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
	68	= Total Cov	ver	height.		
Woody Vine Stratum (Plot size:30 ft)		-		Hydrophytic Vegetation Present?	Yes N	0
1.						
2.				-		
3.				-		
4.				-		
	0	= Total Cov	er	=		
		-	VC1			
Remarks: (Include photo numbers here or on a separat	e sheet.)					

Profile Descripti Depth	on: (Describe to Matrix	the o	lepth needed to o			indicato	r or confirm the al	bsence (of indicators.)
· —	color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture		Remarks
0 - 9	10YR 3/2	94	7.5YR 4/6	6	C	M	Silty Clay		
		_							
		_							
		_		_					
		_				_			
		_		_					
		epleti	on, RM = Reduced	d Mat	rix, MS =	Masked	Sand Grains. ² Lo	ocation:	PL = Pore Lining, M = Matrix.
Hydric Soil Indic								Indica	tors for Problematic Hydric Soils³:
Thick Dark S Sandy Muck Sandy Gleye Sandy Redo Stripped Ma Dark Surface Indicators of hy Restrictive Layer	don (A2) A3) ulfide (A4) yers (A5) low Dark Surfac urface (A12) y Mineral (S1) d Matrix (S4) c (S5) trix (S6) e (S7) (LRR R, Mi	LRA 14	Thin Dark Su Loamy Muck Loamy Gleye Depleted Ma Depleted Ma Depleted Da Redox Depre	urface sy Mir ed Ma etrix (I Surfa rk Su essior	(S9) (LRF neral (F1) trix (F2) F3) ce (F6) rface (F7 ns (F8)	e preser		Co 5 c Da Po Th Irc Pie Me Re Ve Ot	tm Muck (A10) (LRR K, L, MLRA 149B) that Prairie Redox (A16) (LRR K, L, R) tm Mucky Peat or Peat (S3) (LRR K, L, R) thirk Surface (S7) (LRR K, L) thirk Surface (S9) (LRR K, L) tin Dark Surface (F12) (LRR K, L, R) tendmont Floodplain Soils (F19) (MLRA 149B) tesic Spodic (TA6) (MLRA 144A, 145, 149B) the Parent Material (F21) try Shallow Dark Surface (TF12) ther (Explain in Remarks) to blematic. Yes No
Remarks:									

Hydrology Photos



Vegetation Photos





Project/Site: Trelina	City/County:_ \	Waterloo, Seneca	Sampling Date:	2019-June-25
pplicant/Owner: NextEra		State: NY	Sampling Point: \	V-NWJ-09; PFO-1
vestigator(s): Nick DeJohn, Nat	:e Jones	Section, Township, Ra	nge:	
ndform (hillslope, terrace, etc.):	Depression	Local relief (concave, convex,	none): Concave	Slope (%): 2-5
bregion (LRR or MLRA): LR	RR	Lat: 42.9000195628	Long: -76.9307697751	Datum: WGS84
oil Map Unit Name: Claverack	loamy fine sand, 2 to 6 percent s	· · · · · · · · · · · · · · · · · · ·	NWI classific	
• •	on the site typical for this time of		<u>'</u> (If no, explain in Remark	(s.)
e Vegetation, Soil,	or Hydrology significantly		ircumstances" present?	Yes 🟒 No
e Vegetation, Soil,	or Hydrology naturally pr	roblematic? (If needed, exp	olain any answers in Rema	arks.)
JMMARY OF FINDINGS – At	tach site map showing sam	pling point locations, transe	cts, important featur	es, etc.
lydrophytic Vegetation Present?	Yes _ ✓ _ No			
lydric Soil Present?	Yes No	Is the Sampled Area within a	Wetland?	Yes/_ No
Vetland Hydrology Present?	Yes No	If yes, optional Wetland Site I		W-NWJ-09
			<u>. </u>	
emarks: (Explain alternative prod	cedures here or in a separate rep	oort)		
RC covertype is PFO. Trees growi	ng outside of wetland. Looks like	PFO on aerial		
YDROLOGY				
Vakland I budualamı in diaakana.	-			
Vetland Hydrology Indicators:				
rimary Indicators (minimum of o	ne is required; check all that app	<u>Se</u>	condary Indicators (minin	num of two required)
Surface Water (A1)	⁄ Water-Stained	Leaves (B9) —	Surface Soil Cracks (B6)	
✓ High Water Table (A2)	Aquatic Fauna	(B13) —	Drainage Patterns (B10)	
✓ Saturation (A3)	Marl Deposits	(613)	Moss Trim Lines (B16)	
Water Marks (B1)	Hydrogen Sulf		Dry-Season Water Table	(C2)
Sediment Deposits (B2)	Oxidized Rhizo	ospheres on Living Roots (C3) —	Crayfish Burrows (C8)	
,			Saturation Visible on Aer	ial Imagery (C9)
Drift Deposits (B3)	Presence of Re	educed Iron (C4)	Stunted or Stressed Plan	its (D1)
Algal Mat or Crust (B4)		• •	Geomorphic Position (D2	2)
Iron Deposits (B5)	Thin Muck Sur	` ,	Shallow Aquitard (D3)	-,
Inundation Visible on Aerial Im			Microtopographic Relief	(D4)
✓ Sparsely Vegetated Concave Si	· · · · · · · · · · · · · · · · · · ·			(04)
_ , , ,	arrace (B8)	_	FAC-Neutral Test (D5)	
ield Observations:	Von Nie	ath (in shoot)		
urface Water Present?	·	pth (inches):		_
/ater Table Present?	·	· ———	etland Hydrology Present	? Yes _∠_ No
aturation Present?	Yes _✓ No De	pth (inches):		
ncludes capillary fringe)				
)escribe Recorded Data (stream o	gauge monitoring well aerial ph	otos, previous inspections), if ava	lable.	
	,8-, p	, p,p,		
Remarks:				

True Sharkara (Disk sizes 20 ft)	Absolute	Dominant	Indicator	Dominance Test worksheet:		
<u>Tree Stratum</u> (Plot size: <u>30 ft</u>)	% Cover	Species?	Status	Number of Dominant Species That	3	(A)
1. Acer rubrum	25	Yes	FAC	Are OBL, FACW, or FAC:		(A)
2. Fraxinus pennsylvanica	10	Yes	FACW	Total Number of Dominant Species	4	(B)
3.				Across All Strata:		
4.				Percent of Dominant Species That	75	(A/B)
5.				Are OBL, FACW, or FAC:		
6.				Prevalence Index worksheet:		_
7.				Total % Cover of:	Multiply	=
	35	= Total Cov	er	OBL species 0	x 1 = _	0
Sapling/Shrub Stratum (Plot size:15 ft)		=		FACW species 10	x 2 =	20
1				FAC species 30	x 3 =	90
2.				FACU species 5	x 4 =	20
3.				UPL species 0	x 5 =	0
4.				Column Totals 45	(A) _	130 (B)
5.				Prevalence Index = B/A =	2.9	
-				Hydrophytic Vegetation Indicators:		
6.				1- Rapid Test for Hydrophytic \	egetation/	
7				✓ 2 - Dominance Test is >50%		
	0	_= Total Cov	er	\checkmark 3 - Prevalence Index is \le 3.01		
Herb Stratum (Plot size: <u>5 ft</u>)	_			4 - Morphological Adaptations	¹ (Provide	supporting
1. Toxicodendron radicans	5	Yes	FAC	data in Remarks or on a separate sh		
2. Solidago caesia	5	Yes	FACU	Problematic Hydrophytic Vege	tation¹ (Ex	(plain)
3				¹ Indicators of hydric soil and wetlan	d hydrolo	gy must be
4.				present, unless disturbed or proble	matic	
5				Definitions of Vegetation Strata:		
6				Tree – Woody plants 3 in. (7.6 cm) or	r more in o	diameter at
7				breast height (DBH), regardless of h	eight.	
8.				Sapling/shrub – Woody 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)		gardless of
11.				size, and woody plants less than 3.2		
12.				Woody vines – All woody vines grea	ter than 3.	.28 ft in
	10	= Total Cov	er	height.		
Woody Vine Stratum (Plot size:30 ft)		-		Hydrophytic Vegetation Present?	Yes <u>√</u> N	lo
1.						
2.						
3.				•		
4.						
		= Total Cov	or			
		_ 10tal C0V	C1			
Remarks: (Include photo numbers here or on a separat	e sheet.)					

Depth _	Matrix	to the u	epun needed to d Redox			ndicator or cor	ifirm the ab	sence of indicato	rs.)
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Textu	ıre	Remarks
0 - 6	10YR 3/2	100					Silt Lo		
6 - 20	10YR 4/1	95	10YR 5/8	5			Silty Clay		
				_					
				_					
				_					
		· 		-					
								·	
								·	
				_					
				_					
1Type: C = C	oncentration, D =	 Doplotic	n PM – Poducod	Mati	iv MS -	Masked Sand (Frainc 21 c	ocation: PL = Poro	Lining M - Matrix
		pehierio	ii, rivi – reduced	ividtl	ı, ıvı –	iviasken salia (a13. *L€		Lining, M = Matrix. oblematic Hydric Soils ³ :
Hydric Soil I Histosol			Polyadua Pa	٥، د د	urfaca (S	8) (LRR R, MLR /	\ 1/QP\		,
	oipedon (A2)		-			8) (LRR R, MLR/ R, MLRA 149B)			A10) (LRR K, L, MLRA 149B)
Black Hi	•		Loamy Muck				,		Redox (A16) (LRR K, L, R)
	en Sulfide (A4)		Loamy Gleye	•		` , ,		-	Peat or Peat (S3) (LRR K, L, R)
Stratifie	d Layers (A5)		_✓ Depleted Ma					Dark Surface	low Surface (S8) (LRR K, L)
	d Below Dark Surfa	ace (A11) Redox Dark S	urfac	ce (F6)				rface (S9) (LRR K, L)
	ark Surface (A12)		Depleted Dar						nese Masses (F12) (LRR K, L, R)
-	lucky Mineral (S1)		Redox Depre	ssior	ıs (F8)				podplain Soils (F19) (MLRA 149B)
-	ileyed Matrix (S4)								(TA6) (MLRA 144A, 145, 149B)
-	edox (S5)							Red Parent N	
	d Matrix (S6)								Dark Surface (TF12)
Dark Su	rface (S7) (LRR R, M	1LRA 149	9B)					Other (Expla	in in Remarks)
3Indicators	of hydrophytic veg	etation	and wetland hydr	ology	y must be	e present, unle	ss disturbed	d or problematic.	
Restrictive I	ayer (if observed):								
	Type:		None			Hydric Soil Pr	esent?	•	∕es <u> </u> No
	Depth (inches):			•					
Remarks:						-1			

Hydrology Photos



Vegetation Photos





Project/Site: Trelina	City/County: Wat	terloo, Seneca	Sampling Date: 2	.019-June-25
Applicant/Owner: NextEra		State: NY	Sampling Point: W-	NWJ-09; UPL-1
Investigator(s): Nick DeJohn, Nat	te Jones	Section, Township,	Range:	
Landform (hillslope, terrace, etc.):	Flat	Local relief (concave, conv	ex, none): Flat	Slope (%): 0-1
Subregion (LRR or MLRA): LRI	R L	Lat: 42.8993530758	8 Long: -76.9311614615	Datum: WGS84
Soil Map Unit Name: Claverack l	loamy fine sand, 2 to 6 percent slop		NWI classificat	
Are climatic/hydrologic conditions	on the site typical for this time of ye		_✓ (If no, explain in Remarks.)
Are Vegetation, Soil,	or Hydrology significantly di		al Circumstances" present?	Yes _ ∠ No
Are Vegetation, Soil,	or Hydrology naturally prob	lematic? (If needed,	explain any answers in Remar	ks.)
SUMMARY OF FINDINGS – Att	tach site map showing sampli	ng point locations, tran	nsects, important features	s, etc.
Hydrophytic Vegetation Present?	Yes No _ ✓_			
Hydric Soil Present?	Yes No	Is the Sampled Area within	n a Wetland?	′es No ∠
*		·		es
Wetland Hydrology Present?	Yes No	If yes, optional Wetland Si	te iD:	
Remarks: (Explain alternative proc	cedures here or in a separate report	t)		
TRC covertype is UPL. Recent rain				
HYDROLOGY				
Wetland Hydrology Indicators:				
Primary Indicators (minimum of o	ne is required; check all that apply)		Secondary Indicators (minimu	m of two required)
Surface Water (A1)	Water-Stained Le	aves (B9)	Surface Soil Cracks (B6)	
High Water Table (A2)	Aquatic Fauna (B	13)	Drainage Patterns (B10)	
<u>✓</u> Saturation (A3)	Marl Deposits (B1	15)	Moss Trim Lines (B16)	20
Water Marks (B1)	Hydrogen Sulfide		Dry-Season Water Table (C	2)
Sediment Deposits (B2)	Oxidized Rhizosp	heres on Living Roots (C3)	Crayfish Burrows (C8)Saturation Visible on Aeria	llmagan, (CO)
D 16 D 11 (D2)		11 (64)		3 ,
Drift Deposits (B3)	Presence of Redu		Stunted or Stressed Plants	(D1)
Algal Mat or Crust (B4) Iron Deposits (B5)	Recent from Redu Thin Muck Surfac	ction in Tilled Soils (C6)	Geomorphic Position (D2)	
Iron Deposits (B3) Inundation Visible on Aerial Im			Shallow Aquitard (D3)Microtopographic Relief (D	14)
Sparsely Vegetated Concave Su	= -	Kerriai kāj	FAC-Neutral Test (D5)	(-)
Field Observations:	311000 (50)			
Surface Water Present?	Yes No <u></u> ✓ Depth	ı (inches):		
	·			V - N
Water Table Present?	'	· · · · · · · · · · · · · · · · · · ·	Wetland Hydrology Present?	Yes No
Saturation Present?	Yes No Depth	(inches): 0		
(includes capillary fringe)				
Describe Recorded Data (stream g	gauge, monitoring well, aerial photo	s, previous inspections), if a	available:	
Remarks:				
İ				

	Absolute	Dominant	Indicator	Dominance Test worksheet:		
<u>Tree Stratum</u> (Plot size: <u>30 ft</u>)		Species?	Status	Number of Dominant Species That		
1. Acer rubrum	45	Yes	FAC	Are OBL, FACW, or FAC:	2	(A)
2. Not Listed Plant	20	Yes	UPL	Total Number of Dominant Species		
		res	UPL	Across All Strata:	4	(B)
3.				Percent of Dominant Species That		(4 (5)
4.				Are OBL, FACW, or FAC:	50	(A/B)
5.				Prevalence Index worksheet:	-	
6.				Total % Cover of:	Multiply I	<u>Ву:</u>
7				OBL species 0	x 1 =	0
	65	= Total Cov	er	FACW species 50	x 2 =	100
Sapling/Shrub Stratum (Plot size: 15 ft)				FAC species 45	x 3 =	135
1				FACU species 35	x 4 =	140
2				UPL species 20	x 5 =	100
3				Column Totals 150	(A)	475 (B)
4				Prevalence Index = B/A =	-	473 (B)
5						
6.				Hydrophytic Vegetation Indicators:		
7.				1- Rapid Test for Hydrophytic \	/egetation	
	0	= Total Cove	er	2 - Dominance Test is > 50%		
Herb Stratum (Plot size:5 ft)		-		3 - Prevalence Index is ≤ 3.0¹		
1. Impatiens capensis	50	Yes	FACW	4 - Morphological Adaptations		supporting
2. <i>Alliaria petiolata</i>	35	Yes	FACU	data in Remarks or on a separate sh		
3.				Problematic Hydrophytic Vege		
4.				Indicators of hydric soil and wetlan present, unless disturbed or proble		gy must be
5.				·	Hauc	
6.				Definitions of Vegetation Strata:		
7.				Tree – Woody plants 3 in. (7.6 cm) of		liameter at
	. ——			breast height (DBH), regardless of h	_	NDLI and
8.				Sapling/shrub – Woody plants less t greater than or equal to 3.28 ft (1 m		оп апи
9.				Herb – All herbaceous (non-woody)		ardless of
10				size, and woody plants less than 3.2		gai uless oi
11				Woody vines – All woody vines great		28 ft in
12				height.	ter triair 5.	2010111
	85	= Total Cov	er			
Woody Vine Stratum (Plot size: 30 ft)				Hydrophytic Vegetation Present?	res iv	0
1						
2						
3.						
4						
	0	= Total Cov	er			
Remarks: (Include photo numbers here or on a separat	e sheet)					
Tremarks. (medde prioto frambers frere of on a separa	ic silecti,					

Depth (inches) 0 - 10	Matrix Color (moist) 10YR 4/2	<u>%</u> 100	Redox Color (moist)		Type ¹	Loc ²	Texture	
			Color (moist)	<u>%</u>	туре	LOC ²	iexture	
0 - 10	10YR 4/2	100						
				_			Silt Loam	1
				_				
				_				
				_				
				_				
	_							
				_				
				_				
				_				
	.			_				
1Tunos C = Cos	scentration D = F		a DM = Dadusad		iv MC =	Mackad	Cand Crains 21 a	osation, DL - Doro Lining, M - Matrix
	ncentration, D = D	zepieti0i	i, Rivi – Reduced	ividl	ix, ivis =	iviaskeu	Janu Graffis, *LC	ocation: PL = Pore Lining, M = Matrix.
Hydric Soil Inc			Data 1 5 1		6-	0) (1.55.5		Indicators for Problematic Hydric Soils ³ :
Histosol (A	•						R, MLRA 149B)	2 cm Muck (A10) (LRR K, L, MLRA 149B)
Histic Epip			Thin Dark Su Loamy Muck					Coast Prairie Redox (A16) (LRR K, L, R)
Black Histi	Sulfide (A4)		Loamy Mucky			(LKK K, L)	5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
, .	_ayers (A5)		Depleted Ma					Dark Surface (S7) (LRR K, L)
	Below Dark Surfa	ce (A11)						Polyvalue Below Surface (S8) (LRR K, L)
	Surface (A12)	cc (/ (1 1)	Depleted Dark					Thin Dark Surface (S9) (LRR K, L)
	cky Mineral (S1)		Redox Depre					Iron-Manganese Masses (F12) (LRR K, L, R)
	yed Matrix (S4)				.5 (. 5)			Piedmont Floodplain Soils (F19) (MLRA 149B)
Sandy Rec								Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
Sariay Kee Stripped N								Red Parent Material (F21)
	nau ix (30) ace (S7) (LRR R, M	I DA 140	D)					Very Shallow Dark Surface (TF12)
Dark Suria	ice (37) (LKK K, IVI	LKA 143	ы					Other (Explain in Remarks)
³Indicators of	hydrophytic vege	etation a	nd wetland hydr	olog	y must be	e presen	t, unless disturbed	ed or problematic.
Restrictive Lay	er (if observed):							
Ту	pe:		Roots			Hydric	Soil Present?	Yes No _ _ ∕_
De	epth (inches):		10	,				
Remarks:								

Hydrology Photos



Vegetation Photos





Project/Site: Trelina	City/County: Wate	erloo, Seneca	Sampling Date: 2019-June-25		
Applicant/Owner: NextEra		State: NY	Sampling Poi	nt: W-NWJ-10; PEM-1	
Investigator(s): Nick DeJohn, N	late Jones	Section, Township,	Range:		
Landform (hillslope, terrace, etc.): Depression	Local relief (concave, conv	ex, none): Concave	Slope (%): 2-5	
Subregion (LRR or MLRA):	RR L	Lat: 42.898849281	5 Long: -76.9311240	782 Datum: WGS84	
Soil Map Unit Name: Claverac	k loamy fine sand, 2 to 6 percent slope	es	NWI clas	ssification:	
Are climatic/hydrologic condition	ns on the site typical for this time of ye	ar? Yes No	✓ (If no, explain in Re	marks.)	
Are Vegetation, Soil,	or Hydrology significantly dis		al Circumstances" prese	nt? Yes 🟒 No	
Are Vegetation, Soil,	or Hydrology naturally probl	ematic? (If needed,	explain any answers in I	Remarks.)	
SUMMARY OF FINDINGS – A	Attach site map showing samplir	ng point locations, tra	nsects, important fea	itures, etc.	
Hydrophytic Vegetation Present	? Yes No				
Hydric Soil Present?	Yes _ ✓ _ No	Is the Sampled Area with	n a Wetland?	Yes/_ No	
Wetland Hydrology Present?	Yes ∠ _ No	If yes, optional Wetland S		W-NWJ-10	
			ite iD.		
Remarks: (Explain alternative pr	ocedures here or in a separate report;)			
TRC covertype is PEM. Wetter th	an average year				
HYDROLOGY					
Wetland Hydrology Indicators:	E a a a ta una custos de ale a de a la ellegada de accepta		C	-i-i	
Primary Indicators (minimum of	f one is required; check all that apply)		•	ninimum of two required)	
<u>✓</u> Surface Water (A1)	Water-Stained Lea		Surface Soil Cracks (•	
✓ High Water Table (A2)	∕ Aquatic Fauna (B1		Drainage Patterns (B Moss Trim Lines (B1		
✓ Saturation (A3)	Marl Deposits (B1: Hydrogen Sulfide		Dry-Season Water To		
Water Marks (B1) Sediment Deposits (B2)	, ,	neres on Living Roots (C3)	Crayfish Burrows (C		
Scament Deposits (B2)	Oxidized Nilizospi	icres on Living Roots (es)	Saturation Visible or		
Drift Deposits (B3)	Presence of Reduc	ced Iron (C4)	Stunted or Stressed		
Algal Mat or Crust (B4)		ction in Tilled Soils (C6)	Geomorphic Positio		
Iron Deposits (B5)	Thin Muck Surface	e (C7)	Shallow Aquitard (D	3)	
Inundation Visible on Aerial	Imagery (B7) Other (Explain in F	Remarks)	Microtopographic R	elief (D4)	
Sparsely Vegetated Concave	Surface (B8)		✓ FAC-Neutral Test (D	j)	
Field Observations:					
Surface Water Present?	Yes _ No Depth	(inches): 1			
Water Table Present?	Yes No Depth	(inches): 0	Wetland Hydrology Pre	sent? Yes No	
Saturation Present?	Yes No Depth	(inches): 0			
(includes capillary fringe)		·			
Describe Recorded Data (stream	n gauge, monitoring well, aerial photos	s, previous inspections), if	available:		
•					
Remarks:					
nemarks.					

Tree Stratum (Plot size: <u>30 ft</u>)		Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That		
1. Salix nigra	15	Yes	OBL	Are OBL, FACW, or FAC:	4	(A)
2. Acer rubrum	10	Yes	FAC	Total Number of Dominant Species		
3.		162	FAC	Across All Strata:	4	(B)
4.				Percent of Dominant Species That	100	(A /D)
5.				Are OBL, FACW, or FAC:		(A/B)
				Prevalence Index worksheet:		
6.				Total % Cover of:	Multiply	<u>Ву:</u>
7				OBL species 40	x 1 =	40
	25	_= Total Cov	er	FACW species 40	x 2 =	80
Sapling/Shrub Stratum (Plot size: 15 ft)				FAC species 10	x 3 =	30
•				FACU species 0	x 4 =	0
2.				- UPL species 0	x 5 =	0
3				- Column Totals 90	(A)	150 (B)
4				Prevalence Index = B/A =	1.7	
5				Hydrophytic Vegetation Indicators:		
6				1- Rapid Test for Hydrophytic	/egetation	
7				2 - Dominance Test is >50%	regetation	
	0	= Total Cov	er	\checkmark 3 - Prevalence Index is $\le 3.0^{\circ}$		
Herb Stratum (Plot size:5 ft)				4 - Morphological Adaptations	1 (Provide s	supporting
1. Onoclea sensibilis	40	Yes	FACW	data in Remarks or on a separate sh		supporting
2. Carex crinita	15	Yes	OBL	Problematic Hydrophytic Vege		nlain)
3. Juncus effusus	10	No	OBL	¹Indicators of hydric soil and wetlan	•	
4.				present, unless disturbed or proble	,	sy mast be
5.				Definitions of Vegetation Strata:		
6.				Tree – Woody plants 3 in. (7.6 cm) o	r more in o	liameter at
7.				breast height (DBH), regardless of h		alarricter at
8.				Sapling/shrub – Woody plants less t		BH and
9.				greater than or equal to 3.28 ft (1 m		
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
12.		= Total Cove	ar	height.		
Woody Vine Stratum (Plot size:30 ft)		_ Total Cov	-1	Hydrophytic Vegetation Present?	Yes N	0
1.						
				-		
2				-		
3.				-		
4				-		
	0	= Total Cove	er			
Remarks: (Include photo numbers here or on a sepa	0 arate sheet.)	= Total Cove	er			

(inches)	Matrix Color (moist)	%	Redox Color (moist)	% %	Type ¹	Loc ²	Textu	ıre	Remarks
0 - 9	10YR 3/2	92	10YR 5/8	8	C	M	Silty Clay		
9 - 17	10YR 4/3	90	10YR 5/8	10		M	Silty Clay		
	-							·	
		_							
				- —					
				- —					
				- —					
	-		_	- —					
		_		_					
•	Concentration, D =	Depleti	on, RM = Reduce	d Mat	rix, MS =	Masked	Sand Grains. ² Lo		e Lining, M = Matrix.
•	Indicators:							Indicators for P	roblematic Hydric Soils³:
Histosol	(A1) pipedon (A2)		Polyvalue Be Thin Dark St						A10) (LRR K, L, MLRA 149B)
HISCIC EL Black Hi			Loamy Mucl						e Redox (A16) (LRR K, L, R)
	en Sulfide (A4)		Loamy Gley	-		(=	,		Peat or Peat (S3) (LRR K, L, R)
	d Layers (A5)		Depleted Ma					Dark Surface	
_ Deplete	d Below Dark Surfa	ace (A1	1) Redox Dark	Surfa	ce (F6)			-	elow Surface (S8) (LRR K, L) urface (S9) (LRR K, L)
	ark Surface (A12)		Depleted Da						nese Masses (F12) (LRR K, L, R)
Sandy M	lucky Mineral (S1)		Redox Depr	essior	ns (F8)				oodplain Soils (F19) (MLRA 149B)
Sandy G	Gleyed Matrix (S4)								c (TA6) (MLRA 144A, 145, 149B)
	and any (CE)							Red Parent	
Sandy R	(edox (55)								
_	d Matrix (S6)								
Stripped		ILRA 14	49B)						v Dark Surface (TF12)
Stripped Dark Su	d Matrix (S6)			drolog	y must be	e present	t, unless disturbe	Very Shallov Other (Expla	v Dark Surface (TF12) ain in Remarks)
Stripped Dark Su ndicators	d Matrix (S6) rface (S7) (LRR R, N	etation		drolog	y must be	e present	t, unless disturbe	Very Shallov Other (Expla	v Dark Surface (TF12) ain in Remarks)
Stripped Dark Su ndicators estrictive I	d Matrix (S6) rface (S7) (LRR R, M of hydrophytic veg	etation		drolog	y must be		t, unless disturbe Soil Present?	Very Shallov Other (Explad d or problematic.	v Dark Surface (TF12) ain in Remarks)
Stripped Dark Su ndicators estrictive I	d Matrix (S6) rface (S7) (LRR R, N of hydrophytic veg Layer (if observed):	etation	and wetland hyd	drolog	y must be			Very Shallov Other (Explad d or problematic.	v Dark Surface (TF12) ain in Remarks)
Stripped Dark Su ndicators estrictive I	d Matrix (S6) rface (S7) (LRR R, N of hydrophytic veg Layer (if observed): Type:	etation	and wetland hyd	drolog -	y must be			Very Shallov Other (Explad d or problematic.	v Dark Surface (TF12) ain in Remarks)
Stripped Dark Su ndicators estrictive I	d Matrix (S6) rface (S7) (LRR R, N of hydrophytic veg Layer (if observed): Type:	etation	and wetland hyd	drolog -	y must be			Very Shallov Other (Explad d or problematic.	v Dark Surface (TF12) ain in Remarks)
Stripped Dark Su ndicators estrictive I	d Matrix (S6) rface (S7) (LRR R, N of hydrophytic veg Layer (if observed): Type:	etation	and wetland hyd	drolog	y must be			Very Shallov Other (Explad d or problematic.	v Dark Surface (TF12) ain in Remarks)
Stripped Dark Su ndicators estrictive I	d Matrix (S6) rface (S7) (LRR R, N of hydrophytic veg Layer (if observed): Type:	etation	and wetland hyd	drolog -	y must be			Very Shallov Other (Explad d or problematic.	v Dark Surface (TF12) ain in Remarks)
Stripped Dark Su ndicators estrictive I	d Matrix (S6) rface (S7) (LRR R, N of hydrophytic veg Layer (if observed): Type:	etation	and wetland hyd	drolog	y must be			Very Shallov Other (Explad d or problematic.	v Dark Surface (TF12) ain in Remarks)
Stripped Dark Su ndicators estrictive I	d Matrix (S6) rface (S7) (LRR R, N of hydrophytic veg Layer (if observed): Type:	etation	and wetland hyd	drolog -	y must be			Very Shallov Other (Explad d or problematic.	v Dark Surface (TF12) ain in Remarks)
Stripped Dark Su ndicators estrictive I	d Matrix (S6) rface (S7) (LRR R, N of hydrophytic veg Layer (if observed): Type:	etation	and wetland hyd	drolog - -	y must be			Very Shallov Other (Explad d or problematic.	v Dark Surface (TF12) ain in Remarks)
Stripped Dark Su ndicators estrictive I	d Matrix (S6) rface (S7) (LRR R, N of hydrophytic veg Layer (if observed): Type:	etation	and wetland hyd	drolog -	y must be			Very Shallov Other (Explad d or problematic.	v Dark Surface (TF12) ain in Remarks)
Stripped Dark Su ndicators estrictive I	d Matrix (S6) rface (S7) (LRR R, N of hydrophytic veg Layer (if observed): Type:	etation	and wetland hyd	drolog	y must be			Very Shallov Other (Explad d or problematic.	v Dark Surface (TF12) ain in Remarks)
Stripped Dark Su ndicators estrictive I	d Matrix (S6) rface (S7) (LRR R, N of hydrophytic veg Layer (if observed): Type:	etation	and wetland hyd	drolog	y must be			Very Shallov Other (Explad d or problematic.	v Dark Surface (TF12) ain in Remarks)
Stripped Dark Su ndicators estrictive I	d Matrix (S6) rface (S7) (LRR R, N of hydrophytic veg Layer (if observed): Type:	etation	and wetland hyd	drolog	y must be			Very Shallov Other (Explad d or problematic.	v Dark Surface (TF12) ain in Remarks)
Stripped Dark Su ndicators estrictive I	d Matrix (S6) rface (S7) (LRR R, N of hydrophytic veg Layer (if observed): Type:	etation	and wetland hyd	- -	y must be			Very Shallov Other (Explad d or problematic.	v Dark Surface (TF12) ain in Remarks)
Stripped Dark Su ndicators estrictive I	d Matrix (S6) rface (S7) (LRR R, N of hydrophytic veg Layer (if observed): Type:	etation	and wetland hyd	drolog	y must be			Very Shallov Other (Explad d or problematic.	v Dark Surface (TF12) ain in Remarks)
Stripped Dark Su ndicators estrictive I	d Matrix (S6) rface (S7) (LRR R, N of hydrophytic veg Layer (if observed): Type:	etation	and wetland hyd	- -	y must be			Very Shallov Other (Explad d or problematic.	v Dark Surface (TF12) ain in Remarks)
Stripped Dark Su ndicators estrictive I	d Matrix (S6) rface (S7) (LRR R, N of hydrophytic veg Layer (if observed): Type:	etation	and wetland hyd	drolog	y must be			Very Shallov Other (Explad d or problematic.	v Dark Surface (TF12) ain in Remarks)
Stripped Dark Su ndicators estrictive I	d Matrix (S6) rface (S7) (LRR R, N of hydrophytic veg Layer (if observed): Type:	etation	and wetland hyd	-	y must be			Very Shallov Other (Explad d or problematic.	v Dark Surface (TF12) ain in Remarks)
Stripped Dark Su ndicators estrictive I	d Matrix (S6) rface (S7) (LRR R, N of hydrophytic veg Layer (if observed): Type:	etation	and wetland hyd	-	y must be			Very Shallov Other (Explad d or problematic.	v Dark Surface (TF12) ain in Remarks)
Stripped Dark Su ndicators estrictive I	d Matrix (S6) rface (S7) (LRR R, N of hydrophytic veg Layer (if observed): Type:	etation	and wetland hyd	- -	y must be			Very Shallov Other (Explad d or problematic.	v Dark Surface (TF12) ain in Remarks)

Vegetation Photos



Soil Photos



Project/Site: Trelina	City/County: Wat	terloo, Seneca	Sampling Date: 2019-June-25		
Applicant/Owner: NextEra		State: NY	Sampling Point	t: W-NWJ-10; PFO-1	
nvestigator(s): Nick DeJohn, I	Nate Jones	Section, Township,	Range:		
andform (hillslope, terrace, etc): Depression	Local relief (concave, conv	/ex, none): Concave	Slope (%): 0-1	
Subregion (LRR or MLRA):	LRR L	Lat: 42.899319548	2 Long: -76.93119163	Datum: WGS84	
Soil Map Unit Name: Cosad lo	oamy fine sand		NWI class	sification:	
Are climatic/hydrologic conditio	ns on the site typical for this time of ye	ear? Yes No	(If no, explain in Rem	narks.)	
Are Vegetation, Soil,	, ,,		al Circumstances" presen	t? Yes 🟒 No	
Are Vegetation, Soil,	or Hydrology naturally prob	lematic? (If needed,	explain any answers in Re	emarks.)	
SUMMARY OF FINDINGS -	Attach site map showing sampli	ng point locations, tra	nsects, important feat	ures, etc.	
Hydrophytic Vegetation Presen	it? Yes No				
Hydric Soil Present?	Yes No	Is the Sampled Area with	in a Wetland?	Yes/_ No	
Wetland Hydrology Present?	Yes _ _ No	If yes, optional Wetland S	ite ID:	W-NWJ-10	
,	rocedures here or in a separate report	<u> </u>			
remarks. (Explain alternative p	rocedures fiere of in a separate report	L)			
TRC covertype is PFO. Wetter th	ıan average year				
IYDROLOGY					
Wetland Hydrology Indicators:					
	of one is required; check all that apply)		Secondary Indicators (mi	nimum of two required)	
			Surface Soil Cracks (B	•	
✓ Surface Water (A1)	<u>✓</u> Water-Stained Le		Drainage Patterns (B'	•	
✓ High Water Table (A2)	Aquatic Fauna (B		Moss Trim Lines (B16		
<u>✓</u> Saturation (A3) Water Marks (B1)	Marl Deposits (B1 Hydrogen Sulfide		Dry-Season Water Tal		
Sediment Deposits (B2)	, ,	heres on Living Roots (C3)	Crayfish Burrows (C8)		
Scannent Deposits (B2)	Oxidized Kilizosp	neres on Living Roots (es)	Saturation Visible on		
Drift Deposits (B3)	Presence of Redu	iced Iron (C4)	Stunted or Stressed F	Plants (D1)	
Algal Mat or Crust (B4)		ction in Tilled Soils (C6)	Geomorphic Position		
Iron Deposits (B5)	Thin Muck Surfac	e (C7)	Shallow Aquitard (D3))	
Inundation Visible on Aerial	Imagery (B7) Other (Explain in	Remarks)	Microtopographic Re	lief (D4)	
Sparsely Vegetated Concave	e Surface (B8)		✓ FAC-Neutral Test (D5)		
Field Observations:					
Surface Water Present?	Yes 🟒 No Depth	(inches): 2	_		
Water Table Present?	Yes No Depth	(inches): 0	Wetland Hydrology Pres	ent? Yes No	
Saturation Present?	Yes <u></u> ✓ No Depth	(inches): 0	_		
(includes capillary fringe)					
Describe Recorded Data (stream	m gauge, monitoring well, aerial photo	s, previous inspections), if	available:	·	
		.,			
Dama aulum					
Remarks:					

Tree Stratum (Plot size:30 ft)	Absolute	Dominant	Indicator	Dominance Test worksheet:		
		Species?	Status	Number of Dominant Species That	4	(A)
1. Acer rubrum	30	Yes	FAC	Are OBL, FACW, or FAC: Total Number of Dominant Species		
2. Fraxinus pennsylvanica	15	Yes	FACW	Across All Strata:	4	(B)
3. Populus deltoides	10	No	FAC	Percent of Dominant Species That		
4				Are OBL, FACW, or FAC:	100	(A/B)
5				Prevalence Index worksheet:		
6.				Total % Cover of:	Multiply I	<u>Ву:</u>
7				OBL species 0	x 1 =	0
	55	_= Total Cov	er	FACW species 45	x 2 =	90
Sapling/Shrub Stratum (Plot size:15 ft)	_		E 4 6 14 1	FAC species 40	x 3 =	120
1. Ulmus americana	5	Yes	FACW	FACU species 0	x 4 =	0
2.				UPL species 0	x 5 =	0
3.				Column Totals 85	(A)	210 (B)
4				Prevalence Index = B/A =	2.5	
5				Hydrophytic Vegetation Indicators:		
6				1- Rapid Test for Hydrophytic	Vegetation	
7				✓ 2 - Dominance Test is >50%	Ü	
	5	_= Total Cov	er	\checkmark 3 - Prevalence Index is $\le 3.0^{\circ}$		
Herb Stratum (Plot size: <u>5 ft</u>)				4 - Morphological Adaptations	1 (Provide	supporting
1. Onoclea sensibilis	25	Yes	FACW	data in Remarks or on a separate sl		
2				Problematic Hydrophytic Vege	etation¹ (Ex	plain)
3				¹ Indicators of hydric soil and wetlar	าd hydrolog	gy must be
4	- ——			present, unless disturbed or proble	matic	
5				Definitions of Vegetation Strata:		
6				Tree – Woody plants 3 in. (7.6 cm) o	r more in c	diameter at
7				breast height (DBH), regardless of h	_	
8				Sapling/shrub – Woody plants less t		BH and
9				greater than or equal to 3.28 ft (1 m		
10				Herb – All herbaceous (non-woody)		gardless of
11				size, and woody plants less than 3.2		20 ft !
12				Woody vines – All woody vines grea	.ter than 3.	28 π in
	25	= Total Cov	er	height.		
Woody Vine Stratum (Plot size: 30 ft)				Hydrophytic Vegetation Present?	Yes N	0
1						
2						
3						
4						
	0	= Total Cov	er			
Remarks: (Include photo numbers here or on a separa	te sheet.)					
The state of the s						

95 7.5YR 4/6	Matrix, MS = Ma w Surface (S8) face (S9) (LRR R, Mineral (F1) (LF Matrix (F2) fix (F3) urface (F6)	(LRR R, MLRA 149B) MLRA 149B)	Location: PL = Pore Lining, M = Matrix. Indicators for Problematic Hydric Soils ³ : 2 cm Muck (A10) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (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) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
Polyvalue Belor Thin Dark Surfa Loamy Mucky I Loamy Gleyed Depleted Matri (A11)_ ✓ Redox Dark Su Depleted Dark	ow Surface (S8) face (S9) (LRR R, Mineral (F1) (LF Matrix (F2) fix (F3) urface (F6)	(LRR R, MLRA 149B) MLRA 149B)	Indicators for Problematic Hydric Soils ³ : 2 cm Muck (A10) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (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) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
Polyvalue Belor Thin Dark Surfa Loamy Mucky I Loamy Gleyed Depleted Matri (A11)_ ✓ Redox Dark Su Depleted Dark	ow Surface (S8) face (S9) (LRR R, Mineral (F1) (LF Matrix (F2) fix (F3) urface (F6)	(LRR R, MLRA 149B) MLRA 149B)	Indicators for Problematic Hydric Soils ³ : 2 cm Muck (A10) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (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) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
Polyvalue Belor Thin Dark Surfa Loamy Mucky I Loamy Gleyed Depleted Matri (A11)_ ✓ Redox Dark Su Depleted Dark	ow Surface (S8) face (S9) (LRR R, Mineral (F1) (LF Matrix (F2) fix (F3) urface (F6)	(LRR R, MLRA 149B) MLRA 149B)	Indicators for Problematic Hydric Soils ³ : 2 cm Muck (A10) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (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) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
Polyvalue Belor Thin Dark Surfa Loamy Mucky I Loamy Gleyed Depleted Matri (A11)_ ✓ Redox Dark Su Depleted Dark	ow Surface (S8) face (S9) (LRR R, Mineral (F1) (LF Matrix (F2) fix (F3) urface (F6)	(LRR R, MLRA 149B) MLRA 149B)	Indicators for Problematic Hydric Soils ³ : 2 cm Muck (A10) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (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) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
Polyvalue Belor Thin Dark Surfa Loamy Mucky I Loamy Gleyed Depleted Matri (A11)_ ✓ Redox Dark Su Depleted Dark	ow Surface (S8) face (S9) (LRR R, Mineral (F1) (LF Matrix (F2) fix (F3) urface (F6)	(LRR R, MLRA 149B) MLRA 149B)	Indicators for Problematic Hydric Soils ³ : 2 cm Muck (A10) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (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) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
Polyvalue Belor Thin Dark Surfa Loamy Mucky I Loamy Gleyed Depleted Matri (A11)_ ✓ Redox Dark Su Depleted Dark	ow Surface (S8) face (S9) (LRR R, Mineral (F1) (LF Matrix (F2) fix (F3) urface (F6)	(LRR R, MLRA 149B) MLRA 149B)	Indicators for Problematic Hydric Soils ³ : 2 cm Muck (A10) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (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) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
Thin Dark Surfa Loamy Mucky I Loamy Gleyed Depleted Matri (A11)_✓ Redox Dark Su Depleted Dark	ace (S9) (LRR R, Mineral (F1) (LF Matrix (F2) rix (F3) Irface (F6) Surface (F7)	MLRA 149B)	2 cm Muck (A10) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (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) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
Thin Dark Surfa Loamy Mucky I Loamy Gleyed Depleted Matri (A11)_✓ Redox Dark Su Depleted Dark	ace (S9) (LRR R, Mineral (F1) (LF Matrix (F2) rix (F3) Irface (F6) Surface (F7)	MLRA 149B)	Coast Prairie Redox (A16) (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) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
Loamy Mucky I Loamy Gleyed Depleted Matri (A11)_✓ Redox Dark Su Depleted Dark	Mineral (F1) (LF Matrix (F2) ix (F3) ırface (F6) : Surface (F7)		 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)
Depleted Matri (A11)/ Redox Dark Su Depleted Dark	ix (F3) ırface (F6) : Surface (F7)		 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)
(A11) <u>/</u> Redox Dark Su Depleted Dark	ırface (F6) : Surface (F7)		 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)
Depleted Dark	Surface (F7)		 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)
			Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
Redox Depress	sions (F8)		Piedmont Floodplain Soils (F19) (MLRA 149B) Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
			Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
			Pad Parant Material (E21)
			Red Parent Material (F21)
A 149B)			Very Shallow Dark Surface (TF12) Other (Explain in Remarks)
tion and wetland hydro	logy must be p	resent, unless disturbe	
		·	·
Clay	Н	ydric Soil Present?	Yes <u></u> No
13			
	tion and wetland hydro	tion and wetland hydrology must be pr	tion and wetland hydrology must be present, unless disturbed Hydric Soil Present?

Hydrology Photos



Vegetation Photos





Project/Site: Trelina	City/County: Wate	erloo, Seneca	Sampling Date: 2019-June-25	
Applicant/Owner: NextEra		State: NY	Sampling Point: W-NWJ-10; UPL-1	
Investigator(s): Nick DeJohn, No	ate Jones	Section, Township,	Range:	
Landform (hillslope, terrace, etc.):	: Flat	Local relief (concave, conv	ex, none): None Slope (%):	0-1
Subregion (LRR or MLRA): LF	RR L	Lat: 42.898898860	5 Long: -76.9311503974 Datum: W	GS84
Soil Map Unit Name: Claverack	ર loamy fine sand, 2 to 6 percent slope	25	NWI classification:	
Are climatic/hydrologic conditions	s on the site typical for this time of ye	ar? Yes No	(If no, explain in Remarks.)	
Are Vegetation, Soil,	or Hydrology significantly dis		al Circumstances" present? Yes 🟒 No _	
Are Vegetation, Soil,	or Hydrology naturally probl	ematic? (If needed,	explain any answers in Remarks.)	
SUMMARY OF FINDINGS – A	ttach site map showing samplir	ng point locations, trar	nsects, important features, etc.	
Hydrophytic Vegetation Present?	Yes No <u></u> ✓			
Hydric Soil Present?	Yes No	Is the Sampled Area withi	n a Wetland? Yes No	,
		·		_
Wetland Hydrology Present?	Yes No _ ∠	If yes, optional Wetland Si	te iD:	
Remarks: (Explain alternative pro	ocedures here or in a separate report)			
TRC covertype is UPL. Recent rain	n			
HYDROLOGY				
Wetland Hydrology Indicators:				
Primary Indicators (minimum of	one is required; check all that apply)		Secondary Indicators (minimum of two requi	<u>ired)</u>
Surface Water (A1)	Water-Stained Lea		Surface Soil Cracks (B6)	
High Water Table (A2)	Aquatic Fauna (B1		Drainage Patterns (B10)	
Saturation (A3)	Marl Deposits (B1		Moss Trim Lines (B16) Dry-Season Water Table (C2)	
Water Marks (B1)	Hydrogen Sulfide		Crayfish Burrows (C8)	
Sediment Deposits (B2)	Oxidized Rhizospr	neres on Living Roots (C3)	Saturation Visible on Aerial Imagery (C9)	
Drift Deposits (B3)	Presence of Reduc	red Iron (C4)	Stunted or Stressed Plants (D1)	
Algal Mat or Crust (B4)		tion in Tilled Soils (C6)	Geomorphic Position (D2)	
Iron Deposits (B5)	Thin Muck Surface		Shallow Aquitard (D3)	
Inundation Visible on Aerial II			Microtopographic Relief (D4)	
Sparsely Vegetated Concave :	Surface (B8)		FAC-Neutral Test (D5)	
Field Observations:				
Surface Water Present?	Yes No <u>_</u> Depth ((inches):		
Water Table Present?	Yes No Depth ((inches):	Wetland Hydrology Present? Yes	No
Saturation Present?		inches):		
	163 NO _ y		•	
(includes capillary fringe)				
Describe Recorded Data (stream	gauge, monitoring well, aerial photos	s, previous inspections), if a	available:	
Remarks:				

Number of Dominant Species That	
1. Juglans nigra 2.	
2.	
3. Across All Strata: 4. Percent of Dominant Species That Are OBL, FACW, or FAC: 0 (A/I Are OBL, FACW, or FAC: 6. Prevalence Index worksheet: Total % Cover of: Multiply By. 7. OBL species 0 x1 = 0 FACW species 0 x2 = 0 FACW species 0 x3 = 0 FACW species 0 x3 = 0 FACW species 138 x4 = 552 2. UPL species 138 x4 = 552 UPL species 0 x5 = 0 3. UPL species 0 x5 = 0 Column Totals 138 (A) 552 (MISS) FACW species 14 (A) 552 (MISS)	
Are OBL, FACW, or FAC: U (A/I 5.	
5. Are OBL, FACW, or FAC: Prevalence Index worksheet: Total % Cover of: Multiply By: 7. OBL species 0 x 1 = 0 FACW species 0 x 2 = 0 FAC species 0 x 3 = 0 FAC species 138 x 4 = 552 UPL species 0 x 5 = 0 3. Column Totals 138 (A) 552 FACU species 0 x 5 = 0 Column Totals 138 (A) 552 (A) 552 FACU species 0 x 5 = 0 0 Column Totals 138 (A) 552 (A) 552 (B) 7 FACU species 0 x 5 = 0 0 (COLUMN Totals 138 (A) 552 (COLUMN Totals 138	3)
Prevalence Index worksheet: Total % Cover of: Multiply By: OBL species O x 1 = O FACW species O x 2 = O FACW species O x 3 = O FACW species O x 4 = S52 O O FACW species O x 5 = O O O O O O O O O	
7.	
30	
Sapling/Shrub Stratum (Plot size: _15 ft _) 1. Lonicera japonica	
1. Lonicera japonica 40 Yes FACU FACU species 138 x 4 = 552 UPL species 0 x 5 = 0 Column Totals 138 (A) 552 (Prevalence Index = B/A = 4 FACU FACU species 138 x 4 = 552 UPL species 0 x 5 = 0 Column Totals 138 (A) 552 (Prevalence Index = B/A = 4 FACU FACU species 138 x 4 = 552 UPL species 138 x 4 = 552 Column Totals 138 x 4 = 552 Prevalence Index = B/A = 4 FACU species 138 x 4 = 552 FACU Prevalence Index = B/A = 4 FACU species 138 x 4 = 552 FACU Prevalence Index = B/A = 4 FACU species 1- Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is > 50% 3 - Prevalence Index is ≤ 3.0¹ 4 - Morphological Adaptations¹ (Provide supportion data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain) 1Indicators of hydric soil and wetland hydrology must present, unless disturbed or problematic Definitions of Vegetation Strata: Tree - Woody plants 3 in. (7.6 cm) or more in diameter breast height (DBH), regardless of height.	
2.	
3.	
4.	
Prevalence Index = B/A = 4	B)
5. 6. 7. 8.	
6. 7. ——————————————————————————————————	
Au	
Herb Stratum (Plot size: _5 ft) 1. Dactylis glomerata 2. Rubus allegheniensis 3. Alliaria petiolata 4	
A - Morphological Adaptations¹ (Provide supporti data in Remarks or on a separate sheet) 2. Rubus allegheniensis 18 Yes FACU 3. Alliaria petiolata 15 Yes FACU 4. Morphological Adaptations¹ (Provide supporti data in Remarks or on a separate sheet)	
1. Dactylis glomerata 2. Rubus allegheniensis 3. Alliaria petiolata 4. September 15 5. September 16 6. September 17 7. September 18 8 September 18 9 Septemb	
2. Rubus allegheniensis 3. Alliaria petiolata 4. Solution 15 Yes FACU 4. Solution 15 Yes FACU 5. Solution 16 Separate Sneety 18 Yes FACU 19 Problematic Hydrophytic Vegetation (Explain) 10 Indicators of hydric soil and wetland hydrology must present, unless disturbed or problematic 10 Definitions of Vegetation Strata: 11 Tree – Woody plants 3 in. (7.6 cm) or more in diameter breast height (DBH), regardless of height.	ng
3. Alliaria petiolata 15 Yes FACU Indicators of hydric soil and wetland hydrology must present, unless disturbed or problematic Definitions of Vegetation Strata: Tree - Woody plants 3 in. (7.6 cm) or more in diameter breast height (DBH), regardless of height.	
4	
5. Definitions of Vegetation Strata: 6. Tree – Woody plants 3 in. (7.6 cm) or more in diameter breast height (DBH), regardless of height.	be
6 Tree – Woody plants 3 in. (7.6 cm) or more in diameter breast height (DBH), regardless of height.	
7breast height (DBH), regardless of height.	
	at
8. Sapling/shrub – Woody plants less than 3 in. DBH and	
9. greater than or equal to 3.28 ft (1 m) tall.	,
10. Herb - All herbaceous (non-woody) plants, regardless	OΪ
size, and woody plants less than 3.28 ft tall.	
12. Woody villes – All woody villes greater trial 3.28 it in	
68 = Total Cover height.	
Woody Vine Stratum (Plot size: No✓	
1.	
2.	
3.	
4.	
0 = Total Cover	
Remarks: (Include photo numbers here or on a separate sheet.)	

Depth	•	to the di	•			ndicator	or confirm the ab	bsence of i	ndicators.)
	Matrix		Redox				- .		
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type ¹	Loc ²	Texture		Remarks
0 - 20	10YR 4/3	100					Silt Loam	<u> </u>	
				-					
		- —							
¹Tvpe: C = 0	Concentration, D =	 Depletio	n. RM = Reduced	Matr	rix. MS =	Masked S	Sand Grains. ² Lo	ocation: PL	= Pore Lining, M = Matrix.
Hydric Soil			,,,,,,,,		,				s for Problematic Hydric Soils ³ :
Histoso			Polyvalue Be	low S	urface (S	8) (I RR R	MI RA 149R)		,
	pipedon (A2)		Thin Dark Su						Muck (A10) (LRR K, L, MLRA 149B)
	istic (A3)		Loamy Muck						Prairie Redox (A16) (LRR K, L, R)
	en Sulfide (A4)		Loamy Gleye	d Ma	trix (F2)				Mucky Peat or Peat (S3) (LRR K, L, R) Surface (S7) (LRR K, L)
Stratifie	d Layers (A5)		Depleted Ma	trix (F	-3)				alue Below Surface (S8) (LRR K, L)
Deplete	d Below Dark Surfa	ace (A11) Redox Dark S	Surfac	ce (F6)			-	Dark Surface (S9) (LRR K, L)
	ark Surface (A12)		Depleted Dar						Manganese Masses (F12) (LRR K, L, R)
Sandy N	Mucky Mineral (S1)		Redox Depre	ssion	ıs (F8)				nont Floodplain Soils (F19) (MLRA 149B)
Sandy 0	Gleyed Matrix (S4)								Spodic (TA6) (MLRA 144A, 145, 149B)
Sandy F	Redox (S5)								Parent Material (F21)
Strippe	d Matrix (S6)								Shallow Dark Surface (TF12)
			אסט						r (Explain in Remarks)
Dark Su	ırface (S7) (LRR R, N	/ILRA 14	(סל						(=
							I a a a a disaka a da a		
3Indicators	of hydrophytic veg	etation		rology	y must be	e present	, unless disturbe		ematic.
3Indicators	of hydrophytic veg Layer (if observed):	etation	and wetland hydr	rology	y must be			d or proble	
3Indicators	of hydrophytic veg Layer (if observed): Type:	etation		rology -	y must be		, unless disturbe	d or proble	ematic. Yes No⁄_
³ Indicators Restrictive	of hydrophytic veg Layer (if observed):	etation	and wetland hydr	rology -	y must be			d or proble	
3Indicators	of hydrophytic veg Layer (if observed): Type:	etation	and wetland hydr	rology -	y must be			d or proble	
³ Indicators Restrictive	of hydrophytic veg Layer (if observed): Type:	etation	and wetland hydr	rology -	y must be			d or proble	
³ Indicators Restrictive	of hydrophytic veg Layer (if observed): Type:	etation	and wetland hydr	rology	y must be			d or proble	
³ Indicators Restrictive	of hydrophytic veg Layer (if observed): Type:	etation	and wetland hydr	rology -	y must be			d or proble	
³ Indicators Restrictive	of hydrophytic veg Layer (if observed): Type:	etation	and wetland hydr	rology	y must be			d or proble	
³ Indicators Restrictive	of hydrophytic veg Layer (if observed): Type:	etation	and wetland hydr	rology -	y must be			d or proble	
³ Indicators Restrictive	of hydrophytic veg Layer (if observed): Type:	etation	and wetland hydr	rology -	y must be			d or proble	
³ Indicators Restrictive	of hydrophytic veg Layer (if observed): Type:	etation	and wetland hydr	rology -	y must be			d or proble	
³ Indicators Restrictive	of hydrophytic veg Layer (if observed): Type:	etation	and wetland hydr	rolog	y must be			d or proble	
³ Indicators Restrictive	of hydrophytic veg Layer (if observed): Type:	etation	and wetland hydr	rology -	y must be			d or proble	
³ Indicators Restrictive	of hydrophytic veg Layer (if observed): Type:	etation	and wetland hydr	rology -	y must be			d or proble	
³ Indicators Restrictive	of hydrophytic veg Layer (if observed): Type:	etation	and wetland hydr	rology -	y must be			d or proble	
³ Indicators Restrictive	of hydrophytic veg Layer (if observed): Type:	etation	and wetland hydr	rolog	y must be			d or proble	
³ Indicators Restrictive	of hydrophytic veg Layer (if observed): Type:	etation	and wetland hydr	rolog	y must be			d or proble	
³ Indicators Restrictive	of hydrophytic veg Layer (if observed): Type:	etation	and wetland hydr	rolog	y must be			d or proble	
³ Indicators Restrictive	of hydrophytic veg Layer (if observed): Type:	etation	and wetland hydr	rolog	y must be			d or proble	
³ Indicators Restrictive	of hydrophytic veg Layer (if observed): Type:	etation	and wetland hydr	rolog	y must be			d or proble	
³ Indicators Restrictive	of hydrophytic veg Layer (if observed): Type:	etation	and wetland hydr	rolog	y must be			d or proble	
³ Indicators Restrictive	of hydrophytic veg Layer (if observed): Type:	etation	and wetland hydr	rolog	y must be			d or proble	

Hydrology Photos



Vegetation Photos



Soil Photos



Project/Site: Trelina	City/County: Wat	erloo, Seneca		Sampling Date: 201	9-June-25
Applicant/Owner: NextEra		State: NY	S	Sampling Point: W-NV	VJ-11; PEM-1
Investigator(s): Nick DeJohn, N	late Jones	Section, Township,	Range:		
Landform (hillslope, terrace, etc.)): Depression	Local relief (concave, conv	ex, none):_	Concave	Slope (%): 2-5
Subregion (LRR or MLRA): L	.RR L	Lat: 42.890541474	4 Long: -	-76.9253825583	Datum: WGS84
Soil Map Unit Name: Cosad lo	amy fine sand			NWI classification	n:
Are climatic/hydrologic condition	ns on the site typical for this time of ye	ear? Yes No	_ √ (If no, e	explain in Remarks.)	
Are Vegetation, Soil,	or Hydrology significantly di	sturbed? Are "Norm	al Circumsta	ances" present?	/es ∠ No
Are Vegetation, Soil,	or Hydrology naturally prob	lematic? (If needed,	explain any	answers in Remarks.)	1
SUMMARY OF FINDINGS – A	Attach site map showing sampli	ng point locations, trar	nsects, imp	portant features, e	etc.
Hydrophytic Vegetation Present	? Yes No				
Hydric Soil Present?	Yes _ ✓ _ No	Is the Sampled Area withi	n a Wetland	l? Yes	No
		i			
Wetland Hydrology Present?	Yes No	If yes, optional Wetland S	ite ib.		WJ-11
Remarks: (Explain alternative pro	ocedures here or in a separate report	()			
TDC					
TRC covertype is PEM. Wetter th	an average year				
HYDROLOGY					
Watland Hydrology Indicators:					
Wetland Hydrology Indicators:	one is required; check all that apply)		Secondary	Indicators (minimum	of two required)
•	, , , , , , , , , , , , , , , , , , , ,	(50)	•	Soil Cracks (B6)	or two required)
✓ Surface Water (A1)	Water-Stained Lea			ge Patterns (B10)	
✓ High Water Table (A2)✓ Saturation (A3)	Aquatic Fauna (B1 Marl Deposits (B1		_	rim Lines (B16)	
Water Marks (B1)	Hydrogen Sulfide			ason Water Table (C2)	
Sediment Deposits (B2)	, ,	heres on Living Roots (C3)	Crayfish	n Burrows (C8)	
			Saturati	ion Visible on Aerial In	nagery (C9)
Drift Deposits (B3)	Presence of Redu	ced Iron (C4)	Stunted	l or Stressed Plants (D	1)
Algal Mat or Crust (B4)		ction in Tilled Soils (C6)		rphic Position (D2)	
Iron Deposits (B5)	Thin Muck Surface			Aquitard (D3)	
Inundation Visible on Aerial I	· · ·	Remarks)		pographic Relief (D4)	
Sparsely Vegetated Concave	Surface (B8)		FAC-Ne	utral Test (D5)	
Field Observations:	Van (Na Danth	(in ab a a). 4			
Surface Water Present?	·	(inches): 1	-		
Water Table Present?	·	(inches): 0	Wetland Hy	ydrology Present?	Yes No
Saturation Present?	Yes _ 🗸 No Depth	(inches): 0	_		
(includes capillary fringe)					
Describe Recorded Data (stream	n gauge, monitoring well, aerial photo	s, previous inspections), if a	available:		
Remarks:					

Cover	Species?	Status	Number of Dominant Are OBL, FACW, or FAG Total Number of Dom Across All Strata: Percent of Dominant S	C: inant Species Species That	2 2 100	(A) (B)
			Across All Strata: Percent of Dominant	Species That		
	-		Percent of Dominant	•	100	
	·			•	100	(A (D)
			7 (1 C O D L, 17 (C V V, O1 17 ((A/B)
			Prevalence Index wor			
	<u>-</u>		- Total % Cove		Multiply E	Bv:
			- OBL species	 78	x 1 =	- 7 8
0	_= Total Cove	er	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	78	(A)	78 (B)
	· ——— -		- Prevalence	Index = B/A =	1	
	· -		Hvdrophytic Vegetatio	n Indicators:		
	·		• • •		egetation	
	· -				J	
0	_= Total Cove	er				
	.,				(Provide s	supporting
			- data in Remarks or or	a separate sh	eet)	
			Problematic Hyd	lrophytic Vege	tation¹ (Ex	plain)
8	No	OBL			, .	y must be
	. —— -				matic	
	. —— -		_			
	. —— -					liameter at
	. —— -		-			D
	. —— -		_			BH and
	· -		_ -			ardless of
	· -				_	araicss or
	· —— -					28 ft in
70			height.	, ,		
/8	_= 10tal Cove	er.	Hydrophytic Vegetati	on Present? \	es 🗸 N	0
			, , , , , , ,			
			-			
	. —— -		-			
	. —— -		-			
	- Total Cove		-			
	= 10tal Cove	:1				
	0 40 30 8	0 = Total Cove 40 Yes 30 Yes 8 No 78 = Total Cove	0 = Total Cover 40 Yes OBL 30 Yes OBL 8 No OBL 78 = Total Cover	FACW species FAC species FACU species UPL species Column Totals Prevalence Hydrophytic Vegetatio 1 - Rapid Test for 2 - Dominance To 3 - Prevalence In 4 - Morphologica data in Remarks or or Problematic Hydrophytic Vegetation 1 - All herbaceous size, and woody plants and woody plants and woody vines - All woody	FACW species 0 FAC species 0 FACU species 0 UPL species 0 Column Totals 78 Prevalence Index = B/A = Hydrophytic Vegetation Indicators:	FACW species 0 x2 = FAC species 0 x3 = FACU species 0 x4 = UPL species 0 x5 = Column Totals 78 (A) Prevalence Index = B/A = 1 Hydrophytic Vegetation Indicators:

Profile Desc	cription: (Describe	to the o	denth needed to d	docum	nent the	indicato	r or confirm the	absence of indicators	s)
Depth	Matrix	to the v	Redo			marcaco		absence of maleutor.	<i></i> ,
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Te	exture	Remarks
0 - 7	10YR 3/1	95	7.5YR 4/6	5			Sandy	Clay Loam	
7 - 18	10YR 5/2	60	10YR 5/8	40	С	М	Sandy	Clay Loam	
18 -	10YR 5/8								
							,		
							,		
							-		
¹Type: C = C	Concentration, D =	Deplet	ion, RM = Reduce	d Mat	rix, MS =	Masked	Sand Grains. ²	Location: PL = Pore L	ining, M = Matrix.
Hydric Soil								Indicators for Pro	blematic Hydric Soils³:
Histosol							R, MLRA 149B)	2 cm Muck (A	10) (LRR K, L, MLRA 149B)
Histic Ep Black Hi	oipedon (A2)		Thin Dark Su Loamy Muck						Redox (A16) (LRR K, L, R)
	en Sulfide (A4)		Loamy Gleye	-		(LKK K,	L)		eat or Peat (S3) (LRR K, L, R)
	d Layers (A5)		Depleted Ma					Dark Surface	
	d Below Dark Surfa	ace (A1						•	ow Surface (S8) (LRR K, L)
Thick Da	ark Surface (A12)		Depleted Da	ırk Su	rface (F7)			face (S9) (LRR K, L) ese Masses (F12) (LRR K, L, R)
Sandy N	lucky Mineral (S1)		Redox Depr	essior	ns (F8)				odplain Soils (F19) (MLRA 149B)
-	Gleyed Matrix (S4)								(TA6) (MLRA 144A, 145, 149B)
_	Redox (S5)							Red Parent M	
	d Matrix (S6)								Dark Surface (TF12)
Dark Su	rface (S7) (LRR R, N	/ILRA 1	49B)					Other (Explain	n in Remarks)
3Indicators	of hydrophytic veg	etation	and wetland hyd	rolog	y must b	e preser	nt, unless disturb	ed or problematic.	
•	Layer (if observed):				,		•	'	
	Type:		None			Hydric	Soil Present?		Yes/_ No
	Depth (inches):								
Remarks:						•			

Hydrology Photos



Vegetation Photos





Project/Site: Trelina		City/County: Wat	erloo, Seneca	Samp	oling Date: 201	9-June-25
Applicant/Owner: NextEra			State: NY	Samplir	ng Point: W-NV	VJ-11; UPL-1
Investigator(s): Nick DeJohn, N	ate Jones		Section, Township,	Range:		
Landform (hillslope, terrace, etc.)	: Hillslope		Local relief (concave, conv	rex, none): Conve	×	Slope (%): 2-5
Subregion (LRR or MLRA): L	RR L		Lat: 42.890561632	9 Long: -76.925	57438184	Datum: WGS84
Soil Map Unit Name: Arkport	oamy fine sand, 1 to	6 percent slopes			WI classification	1:
Are climatic/hydrologic condition		_		(If no, explain		
Are Vegetation, Soil,		significantly dis		al Circumstances"		Yes 🟒 No
Are Vegetation, Soil,	or Hydrology	naturally probl	ematic? (If needed,	explain any answe	ers in Remarks.))
SUMMARY OF FINDINGS – A	ttach site map s	howing sampliı	ng point locations, trai	nsects, importa	nt features, e	etc.
Hydrophytic Vegetation Present	? Yes	No / _				
Hydric Soil Present?		No	Is the Sampled Area withi	n a Wetland?	Ves	No⁄_
			·		103	
Wetland Hydrology Present?		No _ _ _	If yes, optional Wetland S	ite ID:		
Remarks: (Explain alternative pro	ocedures here or in	a separate report)			
TRC covertype is UPL. Recent rai	n					
HYDROLOGY						
HIDROLOGI						
Wetland Hydrology Indicators:						
Primary Indicators (minimum of	one is required; che	eck all that apply)		Secondary Indica	tors (minimum	of two required)
Surface Water (A1)		Water-Stained Lea	aves (B9)	Surface Soil C	racks (B6)	
High Water Table (A2)		Aquatic Fauna (B1		Drainage Patt	erns (B10)	
Saturation (A3)		Marl Deposits (B1	5)	Moss Trim Lin		
Water Marks (B1)		Hydrogen Sulfide	Odor (C1)	Dry-Season W		
Sediment Deposits (B2)		Oxidized Rhizosph	neres on Living Roots (C3)	Crayfish Burro		(60)
_				Saturation Vis		
Drift Deposits (B3)		Presence of Redu		Stunted or Str		11)
Algal Mat or Crust (B4)			ction in Tilled Soils (C6)	Geomorphic F		
Iron Deposits (B5) Inundation Visible on Aerial I		Thin Muck Surface		Shallow Aquit		
Sparsely Vegetated Concave	0 ,	Other (Explain in I	Remarks)	. •	phic Relief (D4)	
	Surface (Bo)			FAC-Neutral T I	est (D3)	
Field Observations:	V N-	. Donath	(:l)-			
Surface Water Present?	Yes No	•	(inches):	-		
Water Table Present?	Yes No	<u>/</u> Depth	(inches):	Wetland Hydrolog	gy Present?	Yes No _ _
Saturation Present?	Yes No	<u>/</u> Depth	(inches):	_		
(includes capillary fringe)						
Describe Recorded Data (stream	gauge, monitoring	well, aerial photos	s, previous inspections), if	available:		
		-				
Remarks:						
Remarks.						

·				S . T . II			
Tree Stratum (Plot size:30 ft)		Dominant		Dominance Test workshe			
	% Cover	Species?	Status	Number of Dominant Spe	ecies That	0	(A)
1				Are OBL, FACW, or FAC:			
2				Total Number of Domina	nt Species	2	(B)
3				Across All Strata:	-to-The-6		
4				Percent of Dominant Spe	cies inat	0	(A/B)
5.				Are OBL, FACW, or FAC:			
6.				Prevalence Index worksh			_
7.				Total % Cover of	_	Multiply	-
	0	= Total Cove	r	OBL species	0	x 1 =	0
Sapling/Shrub Stratum (Plot size:15 ft)		-		FACW species	0	x 2 =	0
1				FAC species	2	x 3 =	6
2.				FACU species	83	x 4 =	332
-				UPL species	0	x 5 =	0
3.				Column Totals	85	(A)	338 (B)
4				Prevalence Ind	ex = B/A =	4	
5				Hydrophytic Vegetation I	ndicators:		
6				1- Rapid Test for Hy		egetation	ı
7				2 - Dominance Test		-8	
	0	_= Total Cove	er	3 - Prevalence Index			
<u>Herb Stratum</u> (Plot size: <u>5 ft</u>)				4 - Morphological A		(Provide	sunnorting
1. Trifolium repens	45	Yes	FACU	data in Remarks or on a s			supporting
2. Solidago canadensis	30	Yes	FACU	Problematic Hydrop			(nlain)
3. Reynoutria japonica	8	No	FACU	¹Indicators of hydric soil	-		
4. Eutrochium purpureum	2	No	FAC	present, unless disturbed			ду тазсьс
5.				Definitions of Vegetation			
6.				Tree – Woody plants 3 in.		more in	diameter at
7.				breast height (DBH), rega			alameter at
8.				Sapling/shrub – Woody p			OBH and
9.				greater than or equal to 3			Di l'alla
40				Herb – All herbaceous (no			pardless of
10.				size, and woody plants le			54. 4.055 0.
11				Woody vines - All woody			28 ft in
12				height.	8		.20
	85	_= Total Cove	er	Hydrophytic Vegetation	Drocont2 V	/os N	lo /
Woody Vine Stratum (Plot size: 30 ft)				nyuropriyuc vegetation	rieseilt i	es i	NO / _
1							
2							
3							
4							
	0	= Total Cove	er				
Remarks: (Include photo numbers here or on a separa	oto choot)	=					
Remarks. (include prioto numbers here or on a separa	ite sileet.)						

Profile Desc	cription: (Describe	to the de	epth needed to d	ocum	nent the	indicato	r or confirm the at	sence o	f indicators.)
Depth _	Matrix		Redox	Feat	ures				
(inches)	Color (moist)	%	Color (moist)	<u>%</u>	Type ¹	Loc²	Texture		Remarks
0 - 11	10YR 4/3	100					Silt Loam		
				_					
		·		_					
				_					
		· —— ·		_					
		· — ·		_					
				_					
		· —		_					
		· — ·		_					
				_					
				_					
¹Type: C = C	oncentration, D =	Depletio	n, RM = Reduced	Mati	rix, MS =	Masked	Sand Grains. ² Lo	ocation: l	PL = Pore Lining, M = Matrix.
Hydric Soil								Indicat	ors for Problematic Hydric Soils³:
Histosol	(A1)		•				R, MLRA 149B)	2 cr	m Muck (A10) (LRR K, L, MLRA 149B)
	oipedon (A2)		Thin Dark Su					Coa	ast Prairie Redox (A16) (LRR K, L, R)
Black Hi			Loamy Muck			(LRR K,	L)	5 cr	m Mucky Peat or Peat (S3) (LRR K, L, R)
	en Sulfide (A4)		Loamy Gleye						k Surface (S7) (LRR K, L)
	d Layers (A5)		Depleted Ma						yvalue Below Surface (S8) (LRR K, L)
	d Below Dark Surfa	ace (A11)						Thi	n Dark Surface (S9) (LRR K, L)
	ark Surface (A12)		Depleted Dar)		Iror	n-Manganese Masses (F12) (LRR K, L, R)
	fucky Mineral (S1)		Redox Depre	ssior	IS (F8)			Pie	dmont Floodplain Soils (F19) (MLRA 149B)
-	ileyed Matrix (S4)								sic Spodic (TA6) (MLRA 144A, 145, 149B)
_	edox (S5)								Parent Material (F21)
Stripped	d Matrix (S6)								y Shallow Dark Surface (TF12)
Dark Su	rface (S7) (LRR R, N	ILRA 149	9B)						ner (Explain in Remarks)
3Indicators	of hydrophytic veg	etation a	and wetland hydr	വിറ്റ	v must b	e preser	nt. unless disturbe		
•	_ayer (if observed):			0.08.	y mase z		, a	a o. p. o.	
	Type:		Rocks			Hvdric	Soil Present?		Yes No/_
	Depth (inches):		11			i iya i c	Jon 1 reserie.		163 <u> </u>
Remarks:	Deptil (iliciles).								
Remarks:									

Hydrology Photos



Vegetation Photos





Project/Site: Trelina	City/County: Wat	erloo, Seneca	Sampling Date	e: 2019-June-25
Applicant/Owner: NextEra		State: NY	Sampling Point:	W-NWJ-12; PEM-1
Investigator(s): Nick DeJohn, N	late Jones	Section, Township,	Range:	
Landform (hillslope, terrace, etc.): Depression	Local relief (concave, conv	ex, none): Concave	Slope (%): 0-1
Subregion (LRR or MLRA): L	.RR L	Lat: 42.896707621	4 Long: -76.9312961587	7 Datum: WGS84
Soil Map Unit Name: Claverac	k loamy fine sand, 0 to 2 percent slope	es	NWI classif	fication:
Are climatic/hydrologic condition	ns on the site typical for this time of ye	ar? Yes No	(If no, explain in Rema	arks.)
Are Vegetation, Soil,	or Hydrology significantly dis		al Circumstances" present?	Yes No
Are Vegetation, Soil,	or Hydrology naturally probl	ematic? (If needed,	explain any answers in Rer	marks.)
SUMMARY OF FINDINGS - A	Attach site map showing sampli	ng point locations, tra	nsects, important featu	ıres, etc.
Hydrophytic Vegetation Present	? Yes No			
Hydric Soil Present?	Yes _ 🗸 No	Is the Sampled Area with	n a Wetland?	Yes No
•		·		
Wetland Hydrology Present?	Yes No	If yes, optional Wetland S	ite iD.	W-NWJ-12
Remarks: (Explain alternative pr	ocedures here or in a separate report)		
TRC covertype is PEM. Wetter th	an average year			
HYDROLOGY				
Wetland Hydrology Indicators:				
Primary Indicators (minimum of	one is required; check all that apply)		Secondary Indicators (min	•
<u> ✓</u> Surface Water (A1)	Water-Stained Lea		Surface Soil Cracks (B6	
<u>✓</u> High Water Table (A2)	Aquatic Fauna (B1		Drainage Patterns (B10	J)
✓ Saturation (A3)	Marl Deposits (B1		 Moss Trim Lines (B16) Dry-Season Water Tabl	e (C2)
Water Marks (B1) Sediment Deposits (B2)	Hydrogen Sulfide	neres on Living Roots (C3)	Crayfish Burrows (C8)	(02)
Sediment Deposits (B2)	Oxidized Rilizospi	ieres on Living Roots (C3)	Saturation Visible on A	erial Imagery (C9)
Drift Deposits (B3)	Presence of Redu	ced Iron (C4)	Stunted or Stressed Pla	
Algal Mat or Crust (B4)		ction in Tilled Soils (C6)	Geomorphic Position (
Iron Deposits (B5)	Thin Muck Surface		Shallow Aquitard (D3)	
Inundation Visible on Aerial	Imagery (B7) Other (Explain in F	Remarks)	Microtopographic Relie	ef (D4)
Sparsely Vegetated Concave	Surface (B8)		✓ FAC-Neutral Test (D5)	
Field Observations:				
Surface Water Present?	Yes No Depth	(inches): 1		
Water Table Present?	Yes No Depth	(inches): 0	Wetland Hydrology Preser	nt? Yes 🚣 No
Saturation Present?	Yes _✓_ No Depth	(inches): 0	-	
(includes capillary fringe)		· · · · · · · · · · · · · · · · · · ·		
	n gauge, monitoring well, aerial photo	nravious inspactions) if	available.	·
Describe Recorded Data (stream	T gauge, mornicornig well, aeriai prioco.	s, previous irispections), ir	avallable.	
Para autor				
Remarks:				

Tree Stratum (Plot size: 30 ft)		Dominant		Dominance Test worksh			
	% Cover	Species?	Status	Number of Dominant Sp	ecies That	1	(A)
1				Are OBL, FACW, or FAC:			
2				Total Number of Domina Across All Strata:	ant Species	1	(B)
3					: Th -+		
4				Percent of Dominant Speare OBL, FACW, or FAC:	ecies mai	100	(A/B)
5				Prevalence Index worksh			_
6.						Multiply). <i>a</i>
7.				Total % Cover of		Multiply E	
	0	= Total Cov	er	OBL species	85	x 1 =	85
Sapling/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
				UPL species	0	x 5 =	0
3.				Column Totals	85	(A)	85 (B)
4				Prevalence Inc	lex = B/A =	1	
5				Hydrophytic Vegetation	Indicators:		
6				1- Rapid Test for Hy		/egetation	
7				✓ 2 - Dominance Test		egetation	
	0	= Total Cov	er	✓ 3 - Prevalence Inde			
Herb Stratum (Plot size:5 ft)						(Duestide e	
1. Eleocharis palustris	70	Yes	OBL	4 - Morphological A data in Remarks or on a			supporting
2. Alisma subcordatum	15	No	OBL				alain)
3.				Problematic Hydro			
4.				¹Indicators of hydric soil		, ,	y must be
5.				present, unless disturbe		Hauc	-
				Definitions of Vegetation			
6				Tree - Woody plants 3 in			iameter at
7				breast height (DBH), reg			
8				Sapling/shrub - Woody			BH and
9				greater than or equal to			
10				Herb – All herbaceous (n			ardless of
11				size, and woody plants le			
12.				Woody vines – All woody	vines great	ter than 3.2	28 ft in
	85	= Total Cov	er	height.			
Woody Vine Stratum (Plot size:30 ft)		_		Hydrophytic Vegetation	Present? \	∕es <u> </u>	0
1.							
2.				•			
3.				•			
· · · · · · · · · · · · · · · · · · ·				•			
4		Takal Car		•			
	0	_= Total Cov	er				
Remarks: (Include photo numbers here or on a separat	e sheet.)						

	cription: (Describe t	o the o	-			indicator o	or confirm the al	bsence of indicate	ors.)
Depth _	Matrix		Redox				- .		
(inches)	Color (moist)	<u> </u>	Color (moist)	<u>%</u>	Type ¹	Loc ²	Textı		Remarks
0 - 8	10YR 3/1	93	7.5YR 4/6	- —	<u> </u>	<u>M</u> _	Silty Clay		
8 - 17	10YR 5/1	85	7.5YR 4/6		C	<u>M</u>	Silty Clay	y Loam	
				- —					
		- —							
				- —					
									-
				- —					
¹Type: C = C	oncentration, D = [Depleti	on, RM = Reduced	d Mat	rix, MS =	Masked S	and Grains. ² Lo	ocation: PL = Pore	e Lining, M = Matrix.
Hydric Soil	Indicators:							Indicators for P	roblematic Hydric Soils³:
Histosol			Polyvalue Be	low S	urface (S	8) (LRR R,	MLRA 149B)	2 cm Muck	(A10) (LRR K, L, MLRA 149B)
	oipedon (A2)		Thin Dark Su				149B)		e Redox (A16) (LRR K, L, R)
Black Hi			Loamy Muck			(LRR K, L)			Peat or Peat (S3) (LRR K, L, R)
	en Sulfide (A4)		Loamy Gleye					-	e (S7) (LRR K, L)
	d Layers (A5)	(11	Depleted Ma					Polyvalue B	elow Surface (S8) (LRR K, L)
	d Below Dark Surfa ark Surface (A12)	ice (A i	n)_✓ Redox Dark Depleted Da					Thin Dark S	urface (S9) (LRR K, L)
	fucky Mineral (S1)		Redox Depre			'		Iron-Manga	nese Masses (F12) (LRR K, L, R)
-	ileyed Matrix (S4)		Redox Depre	233101	13 (1 0)				oodplain Soils (F19) (MLRA 149B)
-	edox (S5)								ic (TA6) (MLRA 144A, 145, 149B)
-	d Matrix (S6)							Red Parent	
	rface (S7) (LRR R, M	II RA 14	19R1					-	v Dark Surface (TF12)
Dark 3a	ridee (57) (Entrit, IV	iLio (i-	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					Other (Expl	ain in Remarks)
-	of hydrophytic vege	etation	and wetland hyd	rolog	y must b	e present,	unless disturbe	d or problematic	
	_ayer (if observed):								
	Type:		None	_		Hydric S	oil Present?		Yes No
	Depth (inches):								
Remarks:									
İ									
İ									
İ									

Hydrology Photos



Vegetation Photos





Project/Site: Trelina	City/County: Wate	erloo, Seneca	Sampling Date: 2019-June-25			
Applicant/Owner: NextEra		State: NY	Sampling Point: W-NWJ-12; UPL-1			
Investigator(s): Nick DeJohn, Na	ate Jones	Section, Township,	Range:			
Landform (hillslope, terrace, etc.):	: Agricultural Field	Local relief (concave, conv	ex, none): Flat Slope (%): 0-1			
Subregion (LRR or MLRA): LF	RR L	Lat: 42.896549203	5 Long: -76.9314523135 Datum: WGS84			
	k loamy fine sand, 2 to 6 percent slope		NWI classification:			
Are climatic/hydrologic conditions	s on the site typical for this time of yea	ar? Yes No	(If no, explain in Remarks.)			
Are Vegetation <u></u> , Soil,	or Hydrology significantly dis		al Circumstances" present? Yes <u>✓</u> No			
Are Vegetation, Soil,	or Hydrology naturally probl	ematic? (If needed,	explain any answers in Remarks.)			
Summary of Findings – A	ttach site map showing samplir	ng point locations, trar	sects, important features, etc.			
Hydrophytic Vegetation Present?	? Yes No _ _/ _					
Hydric Soil Present?	Yes No _ _ _	Is the Sampled Area withi	n a Wetland? Yes No/_			
Wetland Hydrology Present?		If yes, optional Wetland Si				
	Yes No _ _		te ib.			
Remarks: (Explain alternative pro	ocedures here or in a separate report)					
TRC covertype is UPL. Circumstar	nces are not normal due to agricultur	al activities, Recent rain				
ואסטטן טכע						
HYDROLOGY						
Wetland Hydrology Indicators:						
Primary Indicators (minimum of	one is required; check all that apply)		Secondary Indicators (minimum of two required)			
Surface Water (A1)	Water-Stained Lea	ives (B9)	Surface Soil Cracks (B6)			
High Water Table (A2)	Aquatic Fauna (B1	3)	Drainage Patterns (B10)			
Saturation (A3)	Marl Deposits (B15	5)	Moss Trim Lines (B16)			
Water Marks (B1)	Hydrogen Sulfide		Dry-Season Water Table (C2)			
Sediment Deposits (B2)	Oxidized Rhizosph	neres on Living Roots (C3)	Crayfish Burrows (C8)			
Duift Days with (D2)	Durana a f Dadu		Saturation Visible on Aerial Imagery (C9)			
Drift Deposits (B3)	Presence of Reduc		Stunted or Stressed Plants (D1)			
Algal Mat or Crust (B4) Iron Deposits (B5)	Recent from Reduct Thin Muck Surface	tion in Tilled Soils (C6)	Geomorphic Position (D2) Shallow Aquitard (D3)			
Inundation Visible on Aerial Ir			Microtopographic Relief (D4)			
Sparsely Vegetated Concave S		terriarits)	FAC-Neutral Test (D5)			
Field Observations:	54.1400 (55)					
Surface Water Present?	Yes No Depth ((inches):				
Water Table Present?	•	(inches):	 Wetland Hydrology Present? Yes No			
			wedand right ology Present:			
Saturation Present?	Yes No Depth ((inches):				
(includes capillary fringe)						
Describe Recorded Data (stream	gauge, monitoring well, aerial photos	s, previous inspections), if a	available:			
Remarks:						

	Absolute	Dominant	Indicator	Dominance Test worksheet:		
<u>Tree Stratum</u> (Plot size: <u>30 ft</u>)		Species?	Status	Number of Dominant Species That		
1.				Are OBL, FACW, or FAC:	0	(A)
2.				Total Number of Dominant Species		
				Across All Strata:	1	(B)
3.				Percent of Dominant Species That		(1.15)
4.				Are OBL, FACW, or FAC:	0	(A/B)
5.				Prevalence Index worksheet:		<u> </u>
6				Total % Cover of:	Multiply	By:
7				OBL species 0	x 1 =	0
	0	_= Total Cove	er	FACW species 0	x 2 =	0
Sapling/Shrub Stratum (Plot size: 15 ft)				FAC species 0	x 3 =	0
1				FACU species 60	x 4 =	240
2				UPL species 5	x 5 =	25
3				Column Totals 65	(A)	265 (B)
4.						203 (B)
5.				Prevalence Index = B/A =		
6.				Hydrophytic Vegetation Indicators:		
7.				1- Rapid Test for Hydrophytic	Vegetation	ו
	0	= Total Cove	er	2 - Dominance Test is > 50%		
Herb Stratum (Plot size:5 ft)		-		3 - Prevalence Index is $\leq 3.0^1$		
1. Ambrosia artemisiifolia	60	Yes	FACU	4 - Morphological Adaptation		supporting
2. Leucanthemum vulgare	_ 5	No No	UPL	data in Remarks or on a separate s		
3.			OIL	Problematic Hydrophytic Veg		
				Indicators of hydric soil and wetla		gy must be
4.				present, unless disturbed or proble	matic	
5.				Definitions of Vegetation Strata:		
6				Tree – Woody plants 3 in. (7.6 cm)		diameter at
7				breast height (DBH), regardless of	_	
8				Sapling/shrub – Woody plants less		DBH and
9.				greater than or equal to 3.28 ft (1 r		
10				Herb – All herbaceous (non-woody		gardless of
11				size, and woody plants less than 3.		20.6
12				Woody vines – All woody vines great	iter than 3	3.28 π in
	65	= Total Cove	er	height.		
Woody Vine Stratum (Plot size: 30 ft)		=		Hydrophytic Vegetation Present?	Yes 1	Vo <u> </u>
1.						
2.						
3.						
4.				•		
		= Total Cove	er .	•		
		-				
Remarks: (Include photo numbers here or on a separ	ate sheet.)					

Depth		to the de	-			ndicator	or confirm the al	osence of indicators.)
	Matrix		Redox				- .	B
	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type ¹	Loc ²	Texture	Remarks
0 - 14	10YR 4/3	100					Silt Loam	
				_				
				_				
	_							
				_				
				_				
				_				
Trunos C = Cons	contration D = 1		n DM = Doducod		iv MC =	Mackad	Cand Crains 21	esation DI - Dara Lining M - Matrix
		Depletio	n, RM = Reduced	IVIALI	IX, IVIS –	iviaskeu	Sand Grains. *Lo	ocation: PL = Pore Lining, M = Matrix.
Hydric Soil Indi				_		o. 4 55 f	3 A 4 B 4 4 4 6 B 3	Indicators for Problematic Hydric Soils ³ :
Histosol (A1	•		-				R, MLRA 149B)	2 cm Muck (A10) (LRR K, L, MLRA 149B)
Histic Epipe			Thin Dark Su Loamy Muck					Coast Prairie Redox (A16) (LRR K, L, R)
Black Histic Hydrogen S			Loamy Gleye			(LKK K, L	-)	5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
Stratified La			Depleted Ma					Dark Surface (S7) (LRR K, L)
	, , ,	re (A11)	Redox Dark S					Polyvalue Below Surface (S8) (LRR K, L)
	Surface (A12)	icc (/ (1 1)	Depleted Dark					Thin Dark Surface (S9) (LRR K, L)
	xy Mineral (S1)		Redox Depre					Iron-Manganese Masses (F12) (LRR K, L, R)
	ed Matrix (S4)			55.5	J (. J)			Piedmont Floodplain Soils (F19) (MLRA 149B)
Sandy Gleyo Sandy Redo								Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
Sariay Redo Stripped Ma								Red Parent Material (F21)
	e (S7) (LRR R, M	II DA 140	ID)					Very Shallow Dark Surface (TF12)
Dark Surfac	.e (37) (LKK K, IV	ILKA 143	ю					Other (Explain in Remarks)
Indicators of h	ydrophytic veg	etation a	ınd wetland hydr	ology	must be	e presen	t, unless disturbe	d or problematic.
Restrictive Laye	er (if observed):							
Тур	e:		Compaction			Hydric	Soil Present?	Yes No <u>_</u> ✓
Dep	oth (inches):		14					

Vegetation Photos



Soil Photos



Project/Site: Trelina	City/County: Wat	erloo, Seneca	Sam	Sampling Date: 2019-June-25		
Applicant/Owner: NextEra		State: NY	Sampli	ing Point: W-NW	/J-13; PEM-1	
Investigator(s): Nick DeJohn,	Nate Jones	Section, Township,	Range:			
Landform (hillslope, terrace, etc	c.): Agricultural Field	Local relief (concave, conv	ex, none): Conca	ive	Slope (%): 0-1	
Subregion (LRR or MLRA):	LRR L	Lat: 42.894522501	2 Long: -76.93	13613699	Datum: WGS84	
Soil Map Unit Name: Cosad I	oamy fine sand		N	IWI classification		
Are climatic/hydrologic conditio	ons on the site typical for this time of ye	ear? Yes No	_ ∠ (If no, explain	n in Remarks.)		
Are Vegetation <u></u> ✓, Soil,			al Circumstances"	present? Y	es No	
Are Vegetation, Soil,	, or Hydrology naturally prob	lematic? (If needed,	explain any answ	ers in Remarks.)		
SUMMARY OF FINDINGS -	Attach site map showing sampli	ng point locations, trai	nsects, importa	int features, e	tc.	
Hydrophytic Vegetation Presen	nt? Yes/_ No					
Hydric Soil Present?	Yes _ ✓ No	Is the Sampled Area with	n a Wetland?	Ves	✓_ No	
		}				
Wetland Hydrology Present?	Yes No	If yes, optional Wetland S	ite ID:	W-NV	VJ-13	
Remarks: (Explain alternative p	procedures here or in a separate report	:)				
TRC covertype is PEM. Circums	stances are not normal due to agricultu	ral activities, Wetter than a	verage year			
31	Ğ		0 7			
HYDROLOGY						
Wetland Hydrology Indicators:						
	of one is required; check all that apply)		Secondary Indica	ntors (minimum a	of two required)	
•		(50)	Surface Soil C		or two required)	
✓ Surface Water (A1)	Water-Stained Lea Aquatic Fauna (B1		Drainage Patt			
✓ High Water Table (A2)✓ Saturation (A3)	Aquatic Fauria (B1		Moss Trim Lir			
Water Marks (B1)	Man Deposits (Br Hydrogen Sulfide		Dry-Season W			
Sediment Deposits (B2)	, ,	heres on Living Roots (C3)	Crayfish Burr			
	0/10/2007 11/11/2007		Saturation Vis	sible on Aerial Im	nagery (C9)	
Drift Deposits (B3)	Presence of Redu	ced Iron (C4)	Stunted or St	ressed Plants (D	1)	
Algal Mat or Crust (B4)	Recent Iron Redu	ction in Tilled Soils (C6)	Geomorphic I	Position (D2)		
Iron Deposits (B5)	Thin Muck Surface	e (C7)	Shallow Aquit	tard (D3)		
Inundation Visible on Aerial	l Imagery (B7) Other (Explain in l	Remarks)	Microtopogra	phic Relief (D4)		
Sparsely Vegetated Concave	e Surface (B8)		<u>✓</u> FAC-Neutral T	rest (D5)		
Field Observations:						
Surface Water Present?	Yes No Depth	(inches): 3				
Water Table Present?	Yes <u></u> ✓ No Depth	(inches): 0	Wetland Hydrolo	gy Present?	Yes No	
Saturation Present?	Yes No Depth	(inches): 0				
(includes capillary fringe)		· · ·				
	m gauge, monitoring well, aerial photo	c provious inspections) if	l wailablo:	_	 -	
Describe Recorded Data (strea	in gauge, monitoring well, aeriai photo	s, previous irispections), ir	avaliable.			
Remarks:						

·				Di	4-		
Tree Stratum (Plot size: 30 ft)		Dominant		Dominance Test worksh			
	% Cover	Species?	Status	Number of Dominant Sp Are OBL, FACW, or FAC:	ecies mai	2	(A)
1				Total Number of Domina	ant Charias		
2				Across All Strata:	ant species	2	(B)
3.				Percent of Dominant Spe	ocios That		
4				Are OBL, FACW, or FAC:	ecies mac	100	(A/B)
5				Prevalence Index worksh	noot:		
6				Total % Cover of		Multiply E). <i>p</i>
7.						Multiply E	-
	0	= Total Cove	r	OBL species	80	x 1 =	80
Sapling/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
3.				UPL species	0	x 5 =	0
-				Column Totals	80	(A)	80 (B)
4.				Prevalence Inc	lex = B/A =	1	
5				Hydrophytic Vegetation	Indicators:		
6				1- Rapid Test for Hy		egetation	
7				✓ 2 - Dominance Test		0801011	
	0	= Total Cove	r	✓ 3 - Prevalence Inde			
Herb Stratum (Plot size:5 ft)				4 - Morphological A		(Provide c	upporting
1. Eleocharis palustris	60	Yes	OBL	data in Remarks or on a			apporting
2. Alisma triviale	20	Yes	OBL	Problematic Hydro			alain)
3.				•			
4.				¹ Indicators of hydric soil present, unless disturbe		-	y must be
5.				-	•	Hauc	
6.				Definitions of Vegetation			
				Tree – Woody plants 3 in			iameter at
7				breast height (DBH), reg			
8				Sapling/shrub – Woody			BH and
9				greater than or equal to			
10				Herb – All herbaceous (n			ardiess of
11				size, and woody plants le			00 ft !
12	_			Woody vines - All woody	vines great	er than 3.2	28 TT IN
	80	= Total Cove	r	height.			
Woody Vine Stratum (Plot size:30 ft)		=		Hydrophytic Vegetation	Present? Y	′es 🟒 N	0
1.							
2.							
3.							
4.							
<u> </u>		= Total Cove	r				
	-	_ TOTAL COVE					
Remarks: (Include photo numbers here or on a separ	ate sheet.)						

1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Depth (inches)	Matrix Color (moist)	<u></u> %	Redox Color (moist)	%		Loc2	Tox	vturo	Remarks
IType: 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 ² : Indicators for Problematic Hydric Soils ² : Indicators for Problematic Hydric Soils ³ : Plistosol (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) 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) Thick Dark Surface (A11) Pepleted Dark Surface (F6) Thin Dark Surface (S9) (LRR K, L) Sandy Mucky Mineral (S1) Redox Dark Surface (F7) Iron-Manganese Masses (F12) (LRR K, L, R) Sandy Gleyed Matrix (S4) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Redox (S5) Red Parent Material (F21) Persy Shallow Dark Surface (TF12) Persy Shallow Dark Surface (TF12) Persy Clay Depth (Inches): 12						Type¹ C	Loc ²	-		Remarks
Hydric Soil Indicators: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, MLRA 149B) Coast Prairie Redox (A10) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Polyvalue Below Surface (S9) (LRR R, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Coast Prairie Redox (A1					_					
Hydric Soil Indicators: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, MLRA 149B) Coast Prairie Redox (A10) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Polyvalue Below Surface (S9) (LRR R, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Coast Prairie Redox (A1					_					
Hydric Soil Indicators: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, MLRA 149B) Coast Prairie Redox (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) 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) 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) Redox (S5) Stripped Matrix (S6) Red Parent Material (F21) Stripped Matrix (S6) Red Parent Material (F21) Dark Surface (S7) (LRR R, MLRA 149B) Pindicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Clay Peth (inches): 12			. — .		_					
Hydric Soil Indicators: Histosol (A1)			· — ·							
Hydric Soil Indicators: Histosol (A1)			-		-					
Hydric Soil Indicators: Histosol (A1)			· —		-					
Hydric Soil Indicators: Histosol (A1)					-					
Hydric Soil Indicators: Histosol (A1)					_					
Hydric Soil Indicators: Histosol (A1)										
Hydric Soil Indicators: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, MLRA 149B) Coast Prairie Redox (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) 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) 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) Redox (S5) Stripped Matrix (S6) Red Parent Material (F21) Stripped Matrix (S6) Red Parent Material (F21) Dark Surface (S7) (LRR R, MLRA 149B) Pindicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Clay Peth (inches): 12										
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) 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) Thick Dark Surface (A11) Peleted Dark Surface (F6) Thin Dark Surface (S9) (LRR K, L) Sandy Mucky Mineral (S1) Redox Depressions (F8) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Gleyed Matrix (S4) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Redox (S5) Red Parent Material (F21) Pery Shallow Dark Surface (TF12) Other (Explain in Remarks) Plodicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Clay Hydric Soil Present? Yes No Dark Surface (TF12) Depth (inches): 12	Type: C = Cor	ncentration, D = [Depletio	on, RM = Reduced	Mat	rix, MS =	Masked	Sand Grains. ² L	ocation: PL = Pore L	ining, M = Matrix.
Histic Epipedon (A2) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Stratified Layers (A5) 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 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) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) All dicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Clay Depth (inches): 12	Hydric Soil Inc	licators:							Indicators for Pro	blematic Hydric Soils³:
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) 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) Piedmont Floodplain Soils (F19) (MLRA 1498) Sandy Gleyed Matrix (S4) Piedmont Floodplain Soils (F19) (MLRA 1448, 145, 1498) Stripped Matrix (S6) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 1498) 3Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Clay Hydric Soil Present? Yes No Depth (inches): 12	`	•		-					2 cm Muck (A1	10) (LRR K, L, MLRA 149B)
Hydrogen Sulfide (A4)									Coast Prairie F	Redox (A16) (LRR K, L, R)
Stratified Layers (A5) Depleted Matrix (F3) Polyvalue Below Surface (S8) (LRR K, L) Depleted Below Dark Surface (A11) Redox Dark Surface (F6) Thick Dark Surface (A12) Depleted Dark Surface (F7) Iron-Manganese Masses (F12) (LRR K, L) Sandy Mucky Mineral (S1) Redox Depressions (F8) Piedmont Floodplain Soils (F19) (MLRA 1498 Mesic Spodic (TA6) (MLRA 144A, 145, 1498) Sandy Redox (S5) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) 3Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Clay Hydric Soil Present? Yes ✓ No No				-	-		(LRR K, I	L)	•	
Depleted Below Dark Surface (A11) ✓ Redox Dark Surface (F6) Thick Dark Surface (A12) Depleted Dark Surface (F7) Iron-Manganese Masses (F12) (LRR K, L) Sandy Mucky Mineral (S1) Redox Depressions (F8) Piedmont Floodplain Soils (F19) (MLRA 1498 Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) 3Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Clay Hydric Soil Present? Yes ✓ No										
— Thick Dark Surface (A12) — Depleted Dark Surface (F7) — Iron-Manganese Masses (F12) (LRR K, L, R) — Piedmont Floodplain Soils (F19) (MLRA 149B — Piedmont Floodplain Soils (F19) (MLRA 149B — Piedmont Floodplain Soils (F19) (MLRA 149B — Piedmont Floodplain Soils (F19) (MLRA 149B — 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) 3Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Clay — Hydric Soil Present? Yes ✓ No — Piedmont Floodplain Soils (F19) (MLRA 149B) — Piedmont Floodplain Soi			ce (A11						-	
	Thick Dark	Surface (A12)		Depleted Da	rk Su	rface (F7))			
Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) 3Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Clay Depth (inches): 12 Mesic Spodic (TA6) (MLRA 144A, 145, 149B) — Red Parent Material (F21) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) Hydric Soil Present? Yes ✓ No —	Sandy Mu	cky Mineral (S1)		Redox Depre	ession	ns (F8)				
— Sandy Redox (S5) — Stripped Matrix (S6) — Dark Surface (S7) (LRR R, MLRA 149B) 3Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Depth (inches): 12 Red Parent Material (F21) — Very Shallow Dark Surface (TF12) — Other (Explain in Remarks) Hydric Soil Present? Yes ✓ No —	Sandy Gle	yed Matrix (S4)								
Stripped Matrix (S6)	Sandy Rec	lox (S5)								
Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) 3Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Clay	Stripped N	Matrix (S6)								
Depth (inches): 12	Dark Surfa	ace (S7) (LRR R, M	ILRA 14	9B)					-	
Restrictive Layer (if observed): Type: Clay Hydric Soil Present? Yes _ ✓ No Depth (inches): 12	³Indicators of	hydrophytic vege	etation	and wetland hydi	rolog	y must b	e preser	nt, unless disturbe	ed or problematic.	
Depth (inches): 12							İ			
Separtimenes).	Ty	pe:		Clay	_		Hydric	Soil Present?		Yes No
Remarks:	De	epth (inches):		12						
	Remarks:									

Hydrology Photos



Vegetation Photos





Project/Site: Trelina	City/County: Wat	erloo, Seneca	Sampling Date: 2019-June-25			
Applicant/Owner: NextEra		State: NY	Sampling Point: W-NWJ-13	; UPL-1		
Investigator(s): Nick DeJohn, N	ate Jones	Section, Township,	Range:			
Landform (hillslope, terrace, etc.)	: Agricultural Field	Local relief (concave, conv	ex, none): Flat Slo	pe (%): 0-1		
Subregion (LRR or MLRA):	RR L	Lat: 42.894596513	4 Long: -76.9313970768 Date	um: WGS84		
Soil Map Unit Name: Claverack	k loamy fine sand		NWI classification:			
Are climatic/hydrologic condition	is on the site typical for this time of ye	ear? Yes No	(If no, explain in Remarks.)			
Are Vegetation <u></u> ✓, Soil,	or Hydrology significantly di			✓ No		
Are Vegetation, Soil,	or Hydrology naturally prob	lematic? (If needed,	explain any answers in Remarks.)			
SUMMARY OF FINDINGS – A	Attach site map showing sampli	ng point locations, trai	nsects, important features, etc.			
Hydrophytic Vegetation Present?	? Yes No _ _/ _					
Hydric Soil Present?	Yes No	Is the Sampled Area withi	n a Wetland? Yes	_No ∠ _		
		·		_110		
Wetland Hydrology Present?	Yes No _ _ /_	If yes, optional Wetland S	te iD:			
Remarks: (Explain alternative pro	ocedures here or in a separate report	()				
TRC covertype is UPL. Circumsta	inces are not normal due to agricultur	al activities, Recent rain				
,	G					
				_		
HYDROLOGY						
Wetland Hydrology Indicators:						
Primary Indicators (minimum of	one is required; check all that apply)		Secondary Indicators (minimum of tw	vo required)		
Surface Water (A1)	Water-Stained Lea	aves (R9)	Surface Soil Cracks (B6)	•		
High Water Table (A2)	Aquatic Fauna (B1		Drainage Patterns (B10)			
Saturation (A3)	Marl Deposits (B1		Moss Trim Lines (B16)			
Water Marks (B1)	Hydrogen Sulfide		Dry-Season Water Table (C2)			
Sediment Deposits (B2)		heres on Living Roots (C3)	Crayfish Burrows (C8)			
			Saturation Visible on Aerial Image	ry (C9)		
Drift Deposits (B3)	Presence of Redu	ced Iron (C4)	Stunted or Stressed Plants (D1)			
Algal Mat or Crust (B4)		ction in Tilled Soils (C6)	Geomorphic Position (D2)			
Iron Deposits (B5)	Thin Muck Surface		Shallow Aquitard (D3)			
Inundation Visible on Aerial I		Remarks)	Microtopographic Relief (D4)			
Sparsely Vegetated Concave	Surface (B8)		FAC-Neutral Test (D5)			
Field Observations:						
Surface Water Present?	Yes No Depth	(inches):				
Water Table Present?	Yes No 🟒 Depth	(inches):	Wetland Hydrology Present?	es No _ _		
Saturation Present?	Yes No 🟒 Depth	(inches):				
(includes capillary fringe)						
	n gauge, monitoring well, aerial photo	s previous inspections) if	available:			
Describe Recorded Data (stream	r gaage, morneoring wen, aeriai prioto	s, previous inspections,, in	valiable.			
Remarks:						

Tree Stratum (Plot size:30 ft)		Dominant	Indicator	Dominance Test workshee			
	% Cover	Species?	Status	Number of Dominant Spe	cies That	0	(A)
1				Are OBL, FACW, or FAC:			
2.				Total Number of Dominar	nt Species	1	(B)
3.				Across All Strata:			
4.				Percent of Dominant Spec	cies That	0	(A/B)
5.				Are OBL, FACW, or FAC:			`
6				Prevalence Index workshe			
7.		-		Total % Cover of:	<u>.</u>	<u>Multiply</u>	By:
/·	0	= Total Cov	ıor	- OBL species	0	x 1 =	0
Carling/Church Church up (Dich sings 45 ft)		_ Total Cov	/CI	FACW species	0	x 2 =	0
Sapling/Shrub Stratum (Plot size:15 ft)				FAC species	0	x 3 =	0
•				- FACU species	30	x 4 =	120
2				- UPL species	5	x 5 =	25
3				- Column Totals	35	(A)	145 (B)
4.				Prevalence Inde	x = B/A =	4.1	
5				Hydrophytic Vegetation Ir			
6				1- Rapid Test for Hyd		logotation	
7				2 - Dominance Test i		egetatioi	ı
	0	= Total Cov	/er				
Herb Stratum (Plot size:5 ft)	,	_ '		3 - Prevalence Index		(D : 1	
1. Ambrosia artemisiifolia	30	Yes	FACU	4 - Morphological Ac			supporting
2. Leucanthemum vulgare	5	No	UPL	data in Remarks or on a s			(mln:m)
3.				Problematic Hydrop			•
4.				¹Indicators of hydric soil a		-	gy must be
5.				present, unless disturbed	•	Hauc	-
6.				Definitions of Vegetation			
-				Tree – Woody plants 3 in.			diameter at
7.				breast height (DBH), regar			DDUI
8				Sapling/shrub – Woody pl greater than or equal to 3			рвн and
9				_			gardlass of
10	- ——			Herb – All herbaceous (no size, and woody plants les			gar diess of
11				Woody vines – All woody			28 ft in
12				height.	viries great	ei tilali 3	.20 11 111
	35	= Total Cov	/er				
Woody Vine Stratum (Plot size: 30 ft)				Hydrophytic Vegetation F	resent? Y	/es ľ	No <u>/</u>
1							
2.							
3.							
4.				-			
	0	= Total Cov	/er	-			
		_					
Remarks: (Include photo numbers here or on a separa	te sheet.)						
Fallow field							

Depth Matrix			cator or confirm the ab	sence of indicators.)
Construction Colonia (construction)		(Features		Devende
(inches) Color (moist)	% Color (moist)	% Type¹ Lo	oc² Texture	Remarks
0 - 12 10YR 4/3	100		Silt Loam	
			 ,	
·				
				
	-			
Type: C = Consentration D = D	onlation DM = Dadusad	Matrix MC = Ma	cked Cand Crains 21 o	vestion DI - Doro Lining M - Matrix
Type: C = Concentration, D = Do	epietion, kivi – Keduced	i iviau ix, IVIS – IVIā	skeu saliu Ulaliis. *L(ocation: PL = Pore Lining, M = Matrix.
Hydric Soil Indicators:	D	L	LDD D MIDA 4400'	Indicators for Problematic Hydric Soils ³ :
Histosol (A1)	-		LRR R, MLRA 149B)	2 cm Muck (A10) (LRR K, L, MLRA 149B)
Histic Epipedon (A2)		rface (S9) (LRR R, y Mineral (F1) (LR		Coast Prairie Redox (A16) (LRR K, L, R)
Black Histic (A3) Hydrogen Sulfide (A4)	Loamy Gleye		K N, L)	5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
Stratified Layers (A5)	Depleted Ma			Dark Surface (S7) (LRR K, L)
Depleted Below Dark Surfac				Polyvalue Below Surface (S8) (LRR K, L)
Thick Dark Surface (A12)	· · ·	rk Surface (F7)		Thin Dark Surface (S9) (LRR K, L)
Sandy Mucky Mineral (S1)	Redox Depre			Iron-Manganese Masses (F12) (LRR K, L, R)
Sandy Gleyed Matrix (S4)		.55.51.5 (1.5)		Piedmont Floodplain Soils (F19) (MLRA 149B)
Sandy Redox (S5)				Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
Stripped Matrix (S6)				Red Parent Material (F21)
Dark Surface (S7) (LRR R, ML	DA 140D)			Very Shallow Dark Surface (TF12)
Dark Surface (37) (LKK K, IVIL	.KA 1430)			Other (Explain in Remarks)
³ Indicators of hydrophytic veget	ation and wetland hydi	rology must be pr	esent, unless disturbe	d or problematic.
Restrictive Layer (if observed):				
Type:	Compaction	_ H <u>ı</u>	ydric Soil Present?	Yes No
Depth (inches):	12			

Hydrology Photos



Vegetation Photos





Project/Site: Trelina	City/County: Wat	erloo, Seneca		Sampling Date: 201	9-June-25
Applicant/Owner: NextEra		State: NY	S	Sampling Point: W-NW	/J-14; PEM-1
Investigator(s): Nick DeJohn, N	ate Jones	Section, Township,	Range:		
Landform (hillslope, terrace, etc.)	: Depression	Local relief (concave, conv	/ex, none):_	Concave	Slope (%): 0-1
Subregion (LRR or MLRA):	RR L	Lat: 42.893138649	Long:	-76.9306793344	Datum: WGS84
Soil Map Unit Name: Claverack	k loamy fine sand, 2 to 6 percent slop	es		NWI classification	:
Are climatic/hydrologic condition:	s on the site typical for this time of ye	ear? Yes No	_ ∠ (If no, e	explain in Remarks.)	
Are Vegetation, Soil,	or Hydrology significantly di			•	′es _ .⁄ _ No
Are Vegetation, Soil,	or Hydrology naturally prob	lematic? (If needed,	explain any	answers in Remarks.)	
SUMMARY OF FINDINGS – A	ttach site map showing sampli	ng point locations, trai	nsects, imլ	portant features, e	tc.
Hydrophytic Vegetation Present?	? Yes _ ✓ _ No				
Hydric Soil Present?	Yes No	Is the Sampled Area withi	in a Wetland	l? Yes	No
Wetland Hydrology Present?	Yes No	If yes, optional Wetland S			 NJ-14
			itte iD.	VV-141	77)-14
Remarks: (Explain alternative pro	ocedures here or in a separate report	E)			
TPC covertype is PEM Wetter the	an average vear				
TRC covertype is PEM. Wetter the	an average year				
HYDROLOGY					
Wetland Hydrology Indicators:					
• •	one is required; check all that apply)		Secondary	Indicators (minimum	of two required)
✓ Surface Water (A1)	Water-Stained Lea	aves (R9)	-	Soil Cracks (B6)	•
✓ High Water Table (A2)	Water Stained Let		Drainag	ge Patterns (B10)	
Saturation (A3)	Marl Deposits (B1		Moss Tr	rim Lines (B16)	
Water Marks (B1)	Hydrogen Sulfide	Odor (C1)	-	son Water Table (C2)	
Sediment Deposits (B2)	Oxidized Rhizosp	heres on Living Roots (C3)	-	n Burrows (C8)	(60)
D : (D) ; (D) ;	5 (5)			ion Visible on Aerial In	
Drift Deposits (B3) Algal Mat or Crust (B4)	Presence of Redu			or Stressed Plants (D	1)
Algal Mat of Crust (B4) Iron Deposits (B5)	Recent from Redui	ction in Tilled Soils (C6)		rphic Position (D2) Aquitard (D3)	
Inundation Visible on Aerial I				pographic Relief (D4)	
Sparsely Vegetated Concave	· · · · · · · · · · · · · · · · · · ·	··-···-,		utral Test (D5)	
Field Observations:					
Surface Water Present?	Yes _ ✓ No Depth	(inches): 3			
Water Table Present?		(inches): 0	- Wetland Hv	ydrology Present?	Yes _ _ No
Saturation Present?		(inches): 0	-	,	
	Tes _ √ _ No Deptil	(inches).	-		
(includes capillary fringe)					
Describe Recorded Data (stream	gauge, monitoring well, aerial photo	s, previous inspections), if	available:		
Remarks:					

				B . T . II .		
<u>Tree Stratum</u> (Plot size: <u>30 ft</u>)		Dominant		Dominance Test worksheet:		
		Species?	Status	Number of Dominant Species That Are OBL, FACW, or FAC:	5	(A)
1. Salix nigra	15	Yes	OBL	Total Number of Dominant Species		
2. <i>Fraxinus pennsylvanica</i>	5	Yes	FACW	Across All Strata:	5	(B)
3				Percent of Dominant Species That		
4				- Are OBL, FACW, or FAC:	100	(A/B)
5				Prevalence Index worksheet:	-	
6				- Total % Cover of:	Multiply I	Bv:
7				- OBL species 85	x 1 =	85
	20	= Total Cov	er	FACW species 5	x 2 =	10
Sapling/Shrub Stratum (Plot size:15 ft)				FAC species 20	x3=	60
1. Rhamnus cathartica	10	Yes	FAC	- FACU species 0	x 4 =	0
2				- UPL species 0	x5=	0
3.				· -	_	
4.					(A) _	155 (B)
5.				Prevalence Index = B/A =	1.4	
6.				Hydrophytic Vegetation Indicators:		
7.				1- Rapid Test for Hydrophytic	√egetation	
	10	= Total Cov	er	2 - Dominance Test is >50%		
Herb Stratum (Plot size:5 ft)			C1	\checkmark 3 - Prevalence Index is $\le 3.0^{1}$		
1. Typha latifolia	40	Yes	OBL	4 - Morphological Adaptations		supporting
2. Lythrum salicaria	20	Yes	OBL	- data in Remarks or on a separate sl		
3. Solidago rugosa	10	No	FAC	Problematic Hydrophytic Vege	- '	
4. Equisetum fluviatile				Indicators of hydric soil and wetlar	, .	gy must be
	10	No	OBL	present, unless disturbed or proble	matic	
5				Definitions of Vegetation Strata:		
6				Tree – Woody plants 3 in. (7.6 cm) o		liameter at
7				breast height (DBH), regardless of h	_	
8				Sapling/shrub – Woody plants less t		BH and
9				greater than or equal to 3.28 ft (1 m		
10				Herb – All herbaceous (non-woody) size, and woody plants less than 3.2		ardiess of
11						20 ft in
12				Woody vines – All woody vines grea height.	ter triari 5	20 11 111
	80	= Total Cov	er			
Woody Vine Stratum (Plot size: 30 ft)				Hydrophytic Vegetation Present?	Yes N	0
1	_			_		
2				_		
3.						
4.						
	0	= Total Cov	er	-		
		_				
Remarks: (Include photo numbers here or on a separ	ate sheet.)					

	ription: (Describe t	o the c	· ·			indicato	r or confirm the a	bsence of indicate	ors.)
Depth _ (inches)	Matrix Color (moist)	<u></u> %	Color (moist)	%	Type ¹	Loc ²	Text	uro	Remarks
0 - 7	10YR 3/1	95	7.5YR 4/6	- 70 5	С	M	Silty Cla	-	Remarks
7 - 18	10YR 3/2	92	10YR 5/8	8		M	Silty Cla		
7 10	1011(3/2		1011(3/0				Silty Ciu	y Louin	
		_		-					
		_							
		_							
				_					
				_					
				_					
				_					
				_					
				_					
¹Tvpe: C = C	oncentration, D = [. <u>—</u> Depleti	on. RM = Reduced	Mat	rix. MS =	Masked	Sand Grains. ² L	ocation: PL = Pore	E Lining, M = Matrix.
Hydric Soil I			. ,		, -				roblematic Hydric Soils³:
Histosol			Polyvalue Be	low S	Surface (S	58) (LRR I	R, MLRA 149B)		(A10) (LRR K, L, MLRA 149B)
	ipedon (A2)		Thin Dark Su						e Redox (A16) (LRR K, L, R)
Black Hi	stic (A3)		Loamy Muck			(LRR K, I	_)		Peat or Peat (S3) (LRR K, L, R)
	n Sulfide (A4)		Loamy Gleye						e (S7) (LRR K, L)
	d Layers (A5)	(44)	Depleted Ma						elow Surface (S8) (LRR K, L)
	d Below Dark Surfa irk Surface (A12)	ce (A I	T)_✓ Redox Dark : Depleted Da			`		Thin Dark S	urface (S9) (LRR K, L)
	lucky Mineral (S1)		Redox Depre			,			nese Masses (F12) (LRR K, L, R)
_	leyed Matrix (S4)		Redox Depre	233101	15 (1 0)				loodplain Soils (F19) (MLRA 149B)
-	edox (S5)							•	ic (TA6) (MLRA 144A, 145, 149B)
-	l Matrix (S6)							Red Parent	
	rface (S7) (LRR R, M	LRA 14	19B)					Very Shallov Other (Expla	w Dark Surface (TF12)
•	of hydrophytic vege	etation	and wetland hyd	rolog	y must b	e preser	ıt, unless disturbe	ed or problematic	·
	.ayer (if observed):		None			Lhadric	Coil Drocont?		Vos. 7 No.
	Type:		None	-		Hyuric	Soil Present?		Yes No
	Depth (inches):								
Remarks:									

Hydrology Photos



Vegetation Photos





Project/Site: Trelina	City/County: Wat	erloo, Seneca	Sampling	g Date: 2019-June-25			
Applicant/Owner: NextEra		State: NY	Sampling P	Point: W-NWJ-14; PFO-1			
Investigator(s): Nick DeJohn, N	late Jones	Section, Township,	Range:				
Landform (hillslope, terrace, etc.)): Depression	Local relief (concave, conv	ex, none): Concave	Slope (%): 0-1			
Subregion (LRR or MLRA): L	.RR R	Lat: 42.892695455	9 Long: -76.930536	63391 Datum: WGS84			
Soil Map Unit Name: Cosad lo	amy fine sand		NWI c	classification:			
Are climatic/hydrologic condition	ns on the site typical for this time of ye	ar? Yes No	_✓ (If no, explain in I	Remarks.)			
Are Vegetation, Soil,	or Hydrology significantly dis		al Circumstances" pre				
Are Vegetation, Soil,	or Hydrology naturally probl	ematic? (If needed,	explain any answers i	n Remarks.)			
SUMMARY OF FINDINGS – A	Attach site map showing sampli	ng point locations, tra	nsects, important f	eatures, etc.			
Hydrophytic Vegetation Present	? Yes No						
Hydric Soil Present?	Yes _ ✓ _ No	Is the Sampled Area with	n a Wetland?	Yes No			
•		·					
Wetland Hydrology Present?	Yes No	If yes, optional Wetland S	ite iD.	W-NWJ-14			
Remarks: (Explain alternative pr	ocedures here or in a separate report)					
TRC covertype is PFO. Wetter the	an average year						
HYDROLOGY							
Wetland Hydrology Indicators:							
Primary Indicators (minimum of	one is required; check all that apply)		-	(minimum of two required)			
<u> ✓</u> Surface Water (A1)	Water-Stained Lea		Surface Soil Crack				
<u>✓</u> High Water Table (A2)	Aquatic Fauna (B1		Drainage Patterns				
✓ Saturation (A3)	Marl Deposits (B1		Moss Trim Lines (B16) Dry-Season Water Table (C2)				
Water Marks (B1)	Hydrogen Sulfide	neres on Living Roots (C3)	G () B () () ()				
Sediment Deposits (B2)	Oxidized Rilizospi	ieres on Living Roots (C3)	•	on Aerial Imagery (C9)			
Drift Deposits (B3)	Presence of Redu	ced Iron (C4)	Stunted or Stresse	= -			
Algal Mat or Crust (B4)		ction in Tilled Soils (C6)	✓ Geomorphic Posit				
Iron Deposits (B5)	Thin Muck Surface		Shallow Aquitard				
Inundation Visible on Aerial	Imagery (B7) Other (Explain in F	Remarks)	Microtopographic				
Sparsely Vegetated Concave	Surface (B8)		FAC-Neutral Test ((D5)			
Field Observations:							
Surface Water Present?	Yes No Depth	(inches): 1					
Water Table Present?	Yes No Depth	(inches): 0	Wetland Hydrology P	Present? Yes No			
Saturation Present?	Yes 🗸 No Depth	(inches): 0	-				
(includes capillary fringe)		· · ·	-				
	n gauge, monitoring well, aerial photos	nravious inspactions) if	availahle:				
Describe Recorded Data (stream	T gauge, monitoring well, aeriai photo.	s, previous irispections), ir	available.				
Remarks:							

·	Absolute	Dominant	Indicator	Dominance Test worksheet:		
<u>Tree Stratum</u> (Plot size: <u>30 ft</u>)	% Cover	Species?	Status	Number of Dominant Species That	4	(A)
1. Fraxinus pennsylvanica	25	Yes	FACW	Are OBL, FACW, or FAC:		(A)
2. Populus deltoides	10	Yes	FAC	Total Number of Dominant Species	6	(B)
3.				Across All Strata:		(D)
4.				Percent of Dominant Species That	66.7	(A/B)
5.				Are OBL, FACW, or FAC:		
6.				Prevalence Index worksheet:		
7.				Total % Cover of:	Multiply	-
	35	= Total Cov	er	OBL species 0	x 1 = _	0
Sapling/Shrub Stratum (Plot size:15 ft)		_		FACW species 25	x 2 =	50
1. Rhamnus cathartica	40	Yes	FAC	FAC species 90	x 3 =	270
2.		103	1710	FACU species 35	x 4 =	140
3.				UPL species 0	x 5 =	0
				Column Totals 150	(A)	460 (B)
4				Prevalence Index = B/A =	3.1	
5.				Hydrophytic Vegetation Indicators:		
6.				1- Rapid Test for Hydrophytic \	/egetation	
7				2 - Dominance Test is >50%		
	40	_= Total Cov	er	3 - Prevalence Index is $\leq 3.0^{\circ}$		
<u>Herb Stratum</u> (Plot size: <u>5 ft</u>)				4 - Morphological Adaptations	1 (Provide s	supporting
Toxicodendron radicans	40	Yes	FAC	data in Remarks or on a separate sh		11 0
2. <i>Parthenocissus quinquefolia</i>	20	Yes	FACU	Problematic Hydrophytic Vege	tation¹ (Ex	plain)
3. Solidago caesia	15	Yes	FACU	Indicators of hydric soil and wetlan	d hydrolog	gy must be
4				present, unless disturbed or proble	matic	
5				Definitions of Vegetation Strata:		
6				Tree – Woody plants 3 in. (7.6 cm) or	r more in c	liameter at
7				breast height (DBH), regardless of h	eight.	
8.				Sapling/shrub – Woody plants less t	han 3 in. D	BH and
9				greater than or equal to 3.28 ft (1 m	ı) tall.	
10.				Herb – All herbaceous (non-woody)		gardless of
11.	<u> </u>			size, and woody plants less than 3.2		
12.				Woody vines – All woody vines grea	ter than 3.	28 ft in
	75	= Total Cov	er	height.		
Woody Vine Stratum (Plot size:30 ft)		=		Hydrophytic Vegetation Present?	Yes 🟒 N	0
1.						
2.	-			•		
3.				•		
4.				•		
	0	= Total Cov	or	-		
		Total Cov	Ci			
Remarks: (Include photo numbers here or on a separat	e sheet.)					

Depth _ (inches)	Matrix Color (moist)	%	Color (moist)	Feat %	Type ¹	Loc ²	Textu	ire Remarks
0 - 11	10YR 2/2	95	10YR 5/8	5	С	M	Silty Clay	
		_		_				
				_				
		- —		_				·
				_				
		_		_				
		- —		_				
	Concentration, D = [Depleti	on, RM = Reduced	Mat	rix, MS =	Masked	Sand Grains. ² Lo	ocation: PL = Pore Lining, M = Matrix.
-	Indicators:		Daharak a Dal		·	0) /I DD I	D MI DA 140D)	Indicators for Problematic Hydric Soils ³ :
Histoso	i (A1) pipedon (A2)		Polyvalue Bel Thin Dark Su					2 cm Muck (A10) (LRR K, L, MLRA 149B)
	istic (A3)		Loamy Mucky					Coast Prairie Redox (A16) (LRR K, L, R)
	en Sulfide (A4)		Loamy Gleye			. ,	•	5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
	d Layers (A5)		Depleted Mat					Dark Surface (S7) (LRR K, L)
Deplete	d Below Dark Surfa	ice (A1	I) <u>✓</u> Redox Dark S	urfa	ce (F6)			Polyvalue Below Surface (S8) (LRR K, L) Thin Dark Surface (S9) (LRR K, L)
Thick Da	ark Surface (A12)		Depleted Dar	k Su	rface (F7)			Iron-Manganese Masses (F12) (LRR K, L, R)
Sandy N	lucky Mineral (S1)		Redox Depre	ssior	ns (F8)			Piedmont Floodplain Soils (F19) (MLRA 149B)
Sandy G	Gleyed Matrix (S4)							Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
Sandy F	Redox (S5)							Red Parent Material (F21)
Stripped	d Matrix (S6)							Very Shallow Dark Surface (TF12)
Dark Su	rface (S7) (LRR R, M	ILRA 14	19B)					Other (Explain in Remarks)
	of hydrophytic vege		and wetland hydr	olog	y must be	e presen	t, unless disturbe	d or problematic.
	Layer (if observed): Type:		Clay			Lludric	Soil Present?	Yes ✓ _ No
	Depth (inches):		Clay 11			пуштс	3011 Fresents	fes <u> </u>
Remarks:	Depur (menes).					_		_

Hydrology Photos



Vegetation Photos





Project/Site: Trelina	City/County: Wat	erloo, Seneca	Sampling Date: 2019-June-25			
Applicant/Owner: NextEra		State: NY	Sampling Point: W	-NWJ-14; UPL-1		
Investigator(s): Nick DeJohn, N	ate Jones	Section, Township,	Range:			
Landform (hillslope, terrace, etc.)	: Agricultural Field	Local relief (concave, conv	ex, none): Flat	Slope (%): 0-1		
Subregion (LRR or MLRA):	RR L	Lat: 42.892665322	9 Long: -76.930575315	Datum: WGS84		
Soil Map Unit Name: Cosad loa	amy fine sand		NWI classifica	tion:		
Are climatic/hydrologic condition	is on the site typical for this time of ye	ear? Yes No	✓ (If no, explain in Remarks	.)		
Are Vegetation <u></u> ✓, Soil,	or Hydrology significantly di		al Circumstances" present?	Yes No		
Are Vegetation, Soil,	or Hydrology naturally prob	lematic? (If needed,	explain any answers in Remar	ks.)		
SUMMARY OF FINDINGS – A	Attach site map showing sampli	ng point locations, trar	sects, important feature	s, etc.		
Hydrophytic Vegetation Present?	? Yes No _ _/ _					
Hydric Soil Present?	Yes No	Is the Sampled Area withi	n a Wetland?	∕es No⁄_		
		<u> </u>		10		
Wetland Hydrology Present?	Yes No _ _	If yes, optional Wetland S	te id;			
Remarks: (Explain alternative pro	ocedures here or in a separate report	()				
TRC covertype is UPL. Circumsta	inces are not normal due to agricultur	al activities, Recent rain				
,	, and the second					
HYDROLOGY						
Wetland Hydrology Indicators:						
	one is required; check all that apply)		Secondary Indicators (minimu	ım of two required)		
•		(DO)	Surface Soil Cracks (B6)	an or two required,		
Surface Water (A1) High Water Table (A2)	Water-Stained Lea Aquatic Fauna (B1		Drainage Patterns (B10)			
Saturation (A3)	Marl Deposits (B1		Moss Trim Lines (B16)			
Water Marks (B1)	Hydrogen Sulfide		Dry-Season Water Table (C2)			
Sediment Deposits (B2)		heres on Living Roots (C3)				
			Saturation Visible on Aeria	al Imagery (C9)		
Drift Deposits (B3)	Presence of Redu	ced Iron (C4)	Stunted or Stressed Plants	s (D1)		
Algal Mat or Crust (B4)	Recent Iron Redu	ction in Tilled Soils (C6)	Geomorphic Position (D2)			
Iron Deposits (B5)	Thin Muck Surface	e (C7)	Shallow Aquitard (D3)			
Inundation Visible on Aerial I	lmagery (B7) Other (Explain in	Remarks)	Microtopographic Relief (I	04)		
Sparsely Vegetated Concave	Surface (B8)		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 <u></u> Depth	(inches):				
(includes capillary fringe)						
	gauge monitoring well periol photo	s provious inspections) if	l vesilables	<u>,</u>		
Describe Recorded Data (stream	n gauge, monitoring well, aerial photo	s, previous irispections), ii a	ivaliable.			
Remarks:						

'				T			
Tree Stratum (Plot size: 30 ft)		Dominant		Dominance Test worksh			
	% Cover	Species?	Status	Number of Dominant Sp	pecies That	0	(A)
1				Are OBL, FACW, or FAC:			
2				Total Number of Domin	ant Species	1	(B)
3				Across All Strata:			
4.				Percent of Dominant Sp	ecies That	0	(A/B)
5.	. ,			Are OBL, FACW, or FAC:			
6.				Prevalence Index works			_
7.				Total % Cover of		<u>Multiply</u> l	
· ·	0	= Total Cov	er	OBL species	0	x 1 =	0
Capling/Chruh Ctratum (Plot cizo: 15 ft)		- Total Cov	Ci	FACW species	0	x 2 =	0
Sapling/Shrub Stratum (Plot size:15 ft)				FAC species	0	x 3 =	0
1				FACU species	15	x 4 =	60
				UPL species	0	x 5 =	0
3				Column Totals	15	(A)	60 (B)
4				Prevalence Inc		4	
5				Hydrophytic Vegetation			
6				' ' '		/+:	
7.				1- Rapid Test for H		egetation	
	0	= Total Cov	er	2 - Dominance Tes			
Herb Stratum (Plot size:5 ft)		-		3 - Prevalence Inde			
1. Ambrosia artemisiifolia	15	Yes	FACU	4 - Morphological A			supporting
2.				data in Remarks or on a			
3.				Problematic Hydro			•
-				¹Indicators of hydric soil			gy must be
4				present, unless disturbe		natic	
5				Definitions of Vegetation			
6				Tree – Woody plants 3 ir			diameter at
7				breast height (DBH), reg			
8.				Sapling/shrub - Woody			BH and
9				greater than or equal to			
10				Herb – All herbaceous (r		-	gardless of
11.				size, and woody plants l			
12.				Woody vines – All wood	y vines great	er than 3.	28 ft in
	15	= Total Cov	er	height.			
Woody Vine Stratum (Plot size:30 ft)		-		Hydrophytic Vegetation	Present? Y	′es N	lo <u> / </u>
1.							
2.							
3.							
4							
	0	= Total Cov	er				
Remarks: (Include photo numbers here or on a separate	te sheet.)						
Fallow field							
Tallow field							

	•	to the de	-			indicato	r or confirm the a	bsence of indicators.)
Depth _	Matrix		Redox			12	Taratrana	Damania
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type ¹	Loc ²	Texture	Remarks
0 - 8	10YR 4/3	100		_				
		. —		_				
				-				
		· —		_				
		· —		_				
				_				
				_				
¹Type: C = 0	Concentration, D =	Depletio	n, RM = Reduced	Mati	rix, MS =	Masked	Sand Grains. ² L	ocation: PL = Pore Lining, M = Matrix.
Hydric Soil	Indicators:							Indicators for Problematic Hydric Soils ³ :
Histoso			Polyvalue Be	low S	urface (S	8) (LRR	R, MLRA 149B)	2 cm Muck (A10) (LRR K, L, MLRA 149B)
Histic E	oipedon (A2)		Thin Dark Su	rface	(S9) (LRF	RR, MLR	A 149B)	Coast Prairie Redox (A16) (LRR K, L, R)
	istic (A3)		Loamy Muck			(LRR K,	_)	5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
	en Sulfide (A4)		Loamy Gleye					Dark Surface (S7) (LRR K, L)
	d Layers (A5)	(444	Depleted Ma					Polyvalue Below Surface (S8) (LRR K, L)
	d Below Dark Surfa ark Surface (A12)	ace (ATT)						Thin Dark Surface (S9) (LRR K, L)
	Mucky Mineral (S1)		Depleted Dar Redox Depre)		Iron-Manganese Masses (F12) (LRR K, L, R)
	Gleyed Matrix (S4)		Redox Depre	33101	15 (1-0)			Piedmont Floodplain Soils (F19) (MLRA 149B)
-	Redox (S5)							Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
_	d Matrix (S6)							Red Parent Material (F21)
	urface (S7) (LRR R, M	AI DA 1/10)D)					Very Shallow Dark Surface (TF12)
Daik 30	111ace (37) (LKK K, N	ILIXA 143	, obj					Other (Explain in Remarks)
	of hydrophytic veg		and wetland hydi	olog	y must b	e preser	nt, unless disturbe	ed or problematic.
Restrictive	Layer (if observed):							
	Type:		Compaction			Hydric	Soil Present?	Yes No <u>_</u> ✓
	Depth (inches):		8					
Remarks:								

Hydrology Photos



Vegetation Photos





Project/Site: Trelina	City/County: Wat	erloo, Seneca	Sa	mpling Date: 2019	-June-25		
Applicant/Owner: NextEra		State: NY	Sam	pling Point: W-NW	J-15; PEM-1		
Investigator(s): Nick DeJohn, N	late Jones	Section, Township,	Range:				
Landform (hillslope, terrace, etc.): Depression	Local relief (concave, conv	/ex, none): Con	ıcave	Slope (%): 0-1		
Subregion (LRR or MLRA):L	.RR L	Lat: 42.892848677	Long: -76.	.9297915232 I	Datum: WGS84		
Soil Map Unit Name: Cosad lo	amy fine sand			NWI classification:			
Are climatic/hydrologic condition	ns on the site typical for this time of ye	ar? Yes No	_ ∠ (If no, expl	lain in Remarks.)			
Are Vegetation, Soil,	or Hydrology significantly dis		al Circumstance	es" present? Ye	es No		
Are Vegetation, Soil,	or Hydrology naturally probl	ematic? (If needed,	explain any an	swers in Remarks.)			
SUMMARY OF FINDINGS - A	Attach site map showing sampliı	ng point locations, trai	nsects, impor	tant features, et	ic.		
Hydrophytic Vegetation Present	? Yes No	ĺ					
Hydric Soil Present?	Yes _ ✓ No	Is the Sampled Area with	in a Wetland?	Yes	∠_ No		
•		·					
Wetland Hydrology Present?	Yes No	If yes, optional Wetland S	ite ID:	<u>W-NV</u>	VJ-15		
Remarks: (Explain alternative pr	ocedures here or in a separate report)					
TRC covertype is PEM. Wetter th	an average year						
HYDROLOGY							
IIIDKOLOGI							
Wetland Hydrology Indicators:							
Primary Indicators (minimum of	one is required; check all that apply)		Secondary Ind	icators (minimum o	f two required)		
<u> ✓</u> Surface Water (A1)	Water-Stained Lea	aves (B9)		il Cracks (B6)			
<u></u> High Water Table (A2)	Aquatic Fauna (B1	3)	_	atterns (B10)			
<u>✓</u> Saturation (A3)	Marl Deposits (B1		Moss Trim Lines (B16)				
Water Marks (B1)	Hydrogen Sulfide		Dry-Season Water Table (C2) Crayfish Burrows (C8)				
Sediment Deposits (B2)	Oxidized Rhizosph	neres on Living Roots (C3)	-	Visible on Aerial Im	agery (C9)		
Drift Danasits (B3)	Presence of Podus	cod Iron (CA)		Stressed Plants (D1			
Drift Deposits (B3) Algal Mat or Crust (B4)	Presence of Reduce	ction in Tilled Soils (C6)		ic Position (D2))		
Iron Deposits (B5)	Thin Muck Surface		Shallow Aq				
Inundation Visible on Aerial				graphic Relief (D4)			
Sparsely Vegetated Concave		•	FAC-Neutra				
Field Observations:							
Surface Water Present?	Yes No Depth	(inches): 1					
Water Table Present?	Yes <u></u> ✓ No Depth	(inches): 0	- Wetland Hydro	ology Present?	Yes No		
Saturation Present?	•	(inches): 0	-				
	Tes _ √ _ No	(inches).	-				
(includes capillary fringe)			1				
Describe Recorded Data (strean	n gauge, monitoring well, aerial photo	s, previous inspections), if	available:				
Remarks:							

'				S . T . 1.1			
<u>Tree Stratum</u> (Plot size: <u>30 ft</u>)		Dominant		Dominance Test worksh			
	% Cover	Species?	Status	Number of Dominant Spare OBL, FACW, or FAC:	oecies inat	1	(A)
1					ant Chasias		
2				Total Number of Domin Across All Strata:	ant species	1	(B)
3				Percent of Dominant Sp	acias That		
4				Are OBL, FACW, or FAC:	recies iriat	100	(A/B)
5				Prevalence Index works	heet:		
6.				Total % Cover of		Multiply E	Rv:
7				OBL species	70	x 1 =	70
	0	= Total Cove	er	FACW species	0	x 2 =	0
Sapling/Shrub Stratum (Plot size: 15 ft)				FAC species	0	x3=	0
1				FACU species	0	x 4 =	0
2.				UPL species	0	x 5 =	0
3.		·				_	
4.				Column Totals	70	(A) _	70 (B)
5.				Prevalence Inc		1	
6.				Hydrophytic Vegetation			
7.				1- Rapid Test for H	ydrophytic V	egetation	
··	0	= Total Cove		_ ✓ 2 - Dominance Tes	t is >50%		
Herb Stratum (Plot size: _ 5 ft)		-	-1	_ ✓ 3 - Prevalence Inde	ex is $\leq 3.0^1$		
1. Eleocharis palustris	70	Yes	OBL	4 - Morphological	•		supporting
2.		163	ODL	data in Remarks or on a			
				Problematic Hydro			
3.				¹Indicators of hydric soi		, .	y must be
4.				present, unless disturbe		matic	
5				Definitions of Vegetation			
6				Tree – Woody plants 3 in			iameter at
7				breast height (DBH), reg			
8				Sapling/shrub - Woody			BH and
9				greater than or equal to			
10				Herb – All herbaceous (i	-		ardless of
11				size, and woody plants l			20.6:
12				Woody vines – All wood	y vines great	er than 3.2	28 ft in
	70	= Total Cove	er	height.			
Woody Vine Stratum (Plot size: 30 ft)		_		Hydrophytic Vegetation	Present?	∕es <u> </u>	0
1.							
2.							
3.							
4.							
	0	= Total Cove	er				
Remarks: (Include photo numbers here or on a separat	e sheet.)						

nches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture	Remarks
0 - 18	10YR 3/1	92	10YR 5/8	8	С	M/PL	Silty Clay	
		_		_				
				_				
		_		_				
				_				
		_		_				
				_				
		_		_				
	Concentration, D = I Indicators:	Depleti	on, RM = Reduce	d Ma	trix, MS =	= Masked	Sand Grains. ² Lo	ocation: PL = Pore Lining, M = Matrix. Indicators for Problematic Hydric Soils ³ :
Histosol			Polyvalue Be	elow	Surface ((S8) (LRR I	R, MLRA 149B)	2 cm Muck (A10) (LRR K, L, MLRA 149B)
	oipedon (A2)		Thin Dark St					Coast Prairie Redox (A16) (LRR K, L, R)
Black Hi	stic (A3) en Sulfide (A4)		Loamy Mucl				-)	5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
, ,	d Layers (A5)		Depleted Ma					Dark Surface (S7) (LRR K, L)
	d Below Dark Surfa	ce (A1						Polyvalue Below Surface (S8) (LRR K, L)
	ark Surface (A12)		Depleted Da			7)		Thin Dark Surface (S9) (LRR K, L)
Sandy M	lucky Mineral (S1)		Redox Depr	essic	ns (F8)			Iron-Manganese Masses (F12) (LRR K, L, R)
Sandy G	ileyed Matrix (S4)							Piedmont Floodplain Soils (F19) (MLRA 149B)Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
Sandy R	edox (S5)							
Stripped	d Matrix (S6)							Red Parent Material (F21) Very Shallow Dark Surface (TF12)
_ Dark Su	rface (S7) (LRR R, M	ILRA 14	19B)					Other (Explain in Remarks)
ndicators	of hydrophytic veg	etation	and wetland hyd	lrolo;	gy must l	be preser	t, unless disturbe	
	_ayer (if observed):							
	Type:		None			Hydric S	oil Present?	Yes No
	Depth (inches):							
marks:								

Hydrology Photos



Vegetation Photos





Project/Site: Trelina	City/County: Wat	erloo, Seneca		Sampling Date: 2019-June-25		
Applicant/Owner: NextEra		State: NY		Sampling Point: W-NWJ-15; PFO-1		
Investigator(s): Nick DeJohn, N	ate Jones	Section, Township,	Range:			
Landform (hillslope, terrace, etc.)): Depression	Local relief (concave, conv	/ex, none):_	Concave	Slope (%): 0-1	
Subregion (LRR or MLRA): L	.RR L	Lat: 42.892518304	13 Long:	-76.9298813772	Datum: WGS84	
Soil Map Unit Name: Cosad lo	amy fine sand	-		NWI classification	n:	
Are climatic/hydrologic condition	ns on the site typical for this time of ye	ear? Yes No	(If no,	explain in Remarks.)		
Are Vegetation, Soil,	or Hydrology significantly di	sturbed? Are "Norm	al Circumsta	ances" present?	Yes _ ✓ No	
Are Vegetation, Soil,	or Hydrology naturally prob	lematic? (If needed,	explain any	answers in Remarks.)	
SUMMARY OF FINDINGS - A	Attach site map showing sampli	ng point locations, trar	nsects, im	portant features, e	etc.	
Hydrophytic Vegetation Present	? Yes No					
Hydric Soil Present?	Yes _ ✓ _ No	Is the Sampled Area withi	in a Wetland	d? Yes	No	
_		i				
Wetland Hydrology Present?	Yes No	If yes, optional Wetland S	ite ib.	<u> </u>	WJ-15	
Remarks: (Explain alternative pro	ocedures here or in a separate report	t)				
TRC covertype is PFO. Wetter tha	an average year					
HYDROLOGY						
Wetland Hydrology Indicators:	i ana ia manuimado abaalo all Abaab anab A		Casandani	In dianta va (mainima, um	-f +	
•	one is required; check all that apply)		•	Indicators (minimum	oi two requirea)	
✓ Surface Water (A1)	Water-Stained Lea			e Soil Cracks (B6) ge Patterns (B10)		
✓ High Water Table (A2)	Aquatic Fauna (B1		,	rim Lines (B16)		
✓ Saturation (A3)	Marl Deposits (B1 Hydrogen Sulfide			ason Water Table (C2)		
Water Marks (B1) Sediment Deposits (B2)	, ,	heres on Living Roots (C3)	-	h Burrows (C8)		
Scament Deposits (B2)	Oxidized Kilizospi	neres on Living Roots (es)		ion Visible on Aerial Ir	nagery (C9)	
Drift Deposits (B3)	Presence of Redu	ced Iron (C4)	Stunted	d or Stressed Plants (D	1)	
Algal Mat or Crust (B4)		ction in Tilled Soils (C6)	Geomo	rphic Position (D2)		
Iron Deposits (B5)	Thin Muck Surface	e (C7)	Shallow Aquitard (D3)			
Inundation Visible on Aerial I	Imagery (B7) Other (Explain in I	Remarks)	Microto	opographic Relief (D4)		
Sparsely Vegetated Concave	Surface (B8)		FAC-Ne	eutral Test (D5)		
Field Observations:						
Surface Water Present?	Yes No Depth	(inches): 2	_			
Water Table Present?	Yes No Depth	(inches): 0	Wetland H	ydrology Present?	Yes No	
Saturation Present?	Yes 🗸 No Depth	(inches): 0				
(includes capillary fringe)						
	n gauge, monitoring well, aerial photo	s. previous inspections), if a	available:			
.	0.10.7	.,,				
Remarks:						
Remarks.						

Fraxinus pennsylvanica 60 Yes FACW Are OBL, FACW, or FAC: Total Number of Dominant Species 4 Across All Strata: Percent of Dominant Species That Are OBL, FACW, or FAC: Prevalence Index worksheet: Total % Cover of: Multiply By OBL, FACW Species 0 x 1 = FACW species 60 x 2 = FACW species 60 x 2 = FACW species 57 x 3 = FACW species 57	Are OBL, FACW, or FAC: Total Number of Dominant Species	ree Stratum (Plot size: <u>30 ft</u>)		Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That	3	(A)
Across All Strata: Percent of Dominant Species That Are OBL, FACW, or FAC: Prevalence Index worksheet: Total % Cover of: Multiply By OBL species OBL species	Across All Strata: Percent of Dominant Species That Are OBL, FACW, or FAC: Prevalence Index worksheet: Total % Cover of: Multiply By: OBL species 0 x1 = 0 FACW species 60 x2 = 120 FAC species 57 x3 = 171 FACU species 20 x4 = 80 UPL species 0 x5 = 0 Column Totals 137 (A) 371 (B) Prevalence Index = B/A = 2.7 Hydrophytic Vegetation Indicators: 15 = Total Cover 35 Yes FAC 20 Yes FACU 5 No FAC No FAC Prevalence Index is ≤ 3.0¹ 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain) 1ndicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic Definitions of Vegetation Strata: Tree - Woody plants 3 in. (7.6 cm) or more in diameter a breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of		60	Yes	FACW	'		_
Are OBL, FACW, or FAC: Prevalence Index worksheet: Total % Cover of: Multiply B, or	Are OBL, FACW, or FAC: Prevalence Index worksheet: Total % Cover of: Multiply By:	3.						
Prevalence Index worksheet: Total % Cover of: Multiply By	Total % Cover of: Multiply By:						75	(A/B)
Total & Cover of: Multiply By OBL species 0 x 1 = FACW species 60 x 2 = FACW species 57 x 3 =	OBL species 0 x1 = 0 FACW species 60 x2 = 120 FAC species 57 x3 = 171 FACU species 20 x4 = 80 UPL species 0 x5 = 0 Column Totals 137 (A) 371 (B) Prevalence Index = B/A = 2.7 Hydrophytic Vegetation Indicators: 15 a Total Cover 35 Yes FAC 20 Yes FACU 5 No FAC No FAC Definitions of Vegetation Strata: Tree - Woody plants Sapling/shrub - Woody plants Ses than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of	·				Prevalence Index worksheet:		
Bapling/Shrub Stratum (Plot size: _15 ft)	FACW species 60 x 2 = 120 FAC species 57 x 3 = 171 FACU species 20 x 4 = 80 UPL species 0 x 5 = 0 Column Totals 137 (A) 371 (B) Prevalence Index = B/A = 2.7 Hydrophytic Vegetation Indicators: 15 = Total Cover 35 Yes FAC 20 Yes FACU 5 No FAC 1ndicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic Definitions of Vegetation Strata: Tree - Woody plants 3 in. (7.6 cm) or more in diameter a breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of	·				Total % Cover of: <u>M</u>	<u> fultiply By</u>	<u>/:</u>
Active species 60 x 2 = FAC species 57 x 3 = FAC species 57 x 3 = FAC species 57 x 3 = FAC species 57 x 3 = FAC species 57 x 3 = FACU species 20 x 4 = OPE species 0 x 5 = GOIMM Totals 137 (A) Prevalence Index = B/A = 2.7 Species 13.0 Species 14.0 Species 15.0 Spec	FACW species FAC species FAC species FAC species FACU	• -		- Total Cave		OBL species 0 x	1 =	0
Rhamnus cathartica 15 Yes FAC FACU species 20 x 4 = UPL species 0 x 5 = Column Totals 137 (A) Prevalence Index = B/A = 2.7 Hydrophytic Vegetation Indicators: 1- Rapid Test for Hydrophytic Vegetation 15 = Total Cover 15 = Total Cover 15	The species and the species are species and the species are species and the species are species are species and the species are species are species and the species are species are species are species are species and the species are species are species are species are species are species and the species are species are species are species are species are species and the species are s	Capling/Chruib Ctratum /Dlateiras 1F ft)	- 60	_= TOTAL COVE	er	FACW species 60 x	2 =	120
HACU species 20 x 4 = UPL species 0 x 5 = Column Totals 137 (A) Prevalence Index = B/A = 2.7 Hydrophytic Vegetation Indicators: ———————————————————————————————————	FACU species 20		15	Voc	FAC	FAC species 57 x	3 =	171
UPL species 0 x5 = Column Totals 137 (A) Prevalence Index = B/A = 2.7 Hydrophytic Vegetation Indicators: ——1- Rapid Test for Hydrophytic Vegetation ——2 - Dominance Test is >50% ——3 - Prevalence Index is ≤ 3.0¹ ——4 - Morphological Adaptations¹ (Provide sudat in Remarks or on a separate sheet) ——Persicaria virginiana —————————————————————————————————	Column Totals Prevalence Index = B/A = 2.7 Hydrophytic Vegetation Indicators: 1- Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 35			Yes	FAC	FACU species 20 x	4 =	80
Column lotals 137 (A) Prevalence Index = B/A = 2.7 Hydrophytic Vegetation Indicators: 1- Rapid Test for Hydrophytic Vegetation 1- Rapid Test for Hydrophytic Vegetation 1- Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is ≤ 3.0¹ 4 - Morphological Adaptations¹ (Provide sudata in Remarks or on a separate sheet) Persicaria virginiana 5 No FAC 1- Rapid Test for Hydrophytic Vegetation 4 - Morphological Adaptations¹ (Provide sudata in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explication) (Explicat	Prevalence Index = B/A = 2.7 Hydrophytic Vegetation Indicators: 15 = Total Cover 2 - Dominance Test is >50% 3 - Prevalence Index is ≤ 3.0¹ 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain) 1Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic Definitions of Vegetation Strata: Tree - Woody plants 3 in. (7.6 cm) or more in diameter a breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of					UPL species 0 x	5 =	0
Prevalence Index = B/A =2.7	Hydrophytic Vegetation Indicators: 1- Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 2 - Dominance Test is >50% 3 - Prevalence Index is ≤ 3.0¹ 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain) ¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic Definitions of Vegetation Strata: Tree - Woody plants 3 in. (7.6 cm) or more in diameter a breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of					Column Totals 137	(A) <u>3</u>	371 (B)
Hydrophytic Vegetation Indicators: 15 = Total Cover 15 = Total Cover 15 = Total Cover 15 = Total Cover 2 - Dominance Test is >50% 2 3 - Prevalence Index is ≤ 3.0¹ 4 - Morphological Adaptations¹ (Provide su data in Remarks or on a separate sheet) Persicaria virginiana 5 No FAC 1Indicators of hydric soil and wetland hydrology present, unless disturbed or problematic Definitions of Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 4 - Morphological Adaptations¹ (Provide su data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Expl l'Indicators of hydric soil and wetland hydrology present, unless disturbed or problematic Definitions of Vegetation Strata: Tree - Woody plants 3 in. (7.6 cm) or more in diabreast height (DBH), regardless of height.	Hydrophytic Vegetation Indicators: 1- Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is ≤ 3.0¹ 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain) ¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic Definitions of Vegetation Strata: Tree - Woody plants 3 in. (7.6 cm) or more in diameter a breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of	·				Prevalence Index = B/A =	2.7	
15 = Total Cover 15 = Total Cover 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 2 - Dominance Tes	15 = Total Cover 2 - Dominance Test is >50% 2 - Dominance Test is >50% 3 - Prevalence Index is ≤ 3.0¹ 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain) ¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic Definitions of Vegetation Strata: Tree - Woody plants 3 in. (7.6 cm) or more in diameter a breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of	·				Hydrophytic Vegetation Indicators:		
15 = Total Cover 2 - Dominance Test is >50% 2 - Total Cover 3 - Prevalence Index is ≤ 3.0¹ 4 - Morphological Adaptations¹ (Provide sudata in Remarks or on a separate sheet) 20 Yes FACU Problematic Hydrophytic Vegetation¹ (Explain Separate virginiana 5 No FAC 1 Indicators of hydric soil and wetland hydrology present, unless disturbed or problematic Definitions of Vegetation Strata: Tree - Woody plants 3 in. (7.6 cm) or more in diabreast height (DBH), regardless of height.	15 = Total Cover 35 Yes FAC 20 Yes FACU 5 No FAC 1 Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic Definitions of Vegetation Strata: Tree - Woody plants 3 in. (7.6 cm) or more in diameter a breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of heights.						etation	
15 = Total Cover	15 = Total Cover 35 Yes FAC 20 Yes FACU 5 No FAC 1Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic Definitions of Vegetation Strata: Tree - Woody plants 3 in. (7.6 cm) or more in diameter a breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of					_	,	
A - Morphological Adaptations¹ (Provide sudata in Remarks or on a separate sheet) 4 - Morphological Adaptations¹ (Provide sudata in Remarks or on a separate sheet) 20	4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain) 1 Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic Definitions of Vegetation Strata: Tree - Woody plants 3 in. (7.6 cm) or more in diameter a breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of		15	_= Total Cove	er			
Toxicodendron radicans Toxicodendron radicans Toxicodendron radicans Toxicodendron radicans Toxicodendron radicans Toxicodendron radicans Text	35 Yes FAC data in Remarks or on a separate sheet)						rovide su	pporting
Persicaria virginiana 5 No FAC Indicators of hydric soil and wetland hydrology present, unless disturbed or problematic Definitions of Vegetation Strata: Tree – Woody plants 3 in. (7.6 cm) or more in diabreast height (DBH), regardless of height.	5 No FAC 'Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic Definitions of Vegetation Strata: Tree – Woody plants 3 in. (7.6 cm) or more in diameter a breast height (DBH), regardless of height. Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of					, ,		
present, unless disturbed or problematic Definitions of Vegetation Strata: Tree – Woody plants 3 in. (7.6 cm) or more in diabreast height (DBH), regardless of height.	present, unless disturbed or problematic Definitions of Vegetation Strata: Tree – Woody plants 3 in. (7.6 cm) or more in diameter a breast height (DBH), regardless of height. Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of	2. Parthenocissus quinquefolia	20	Yes	FACU	Problematic Hydrophytic Vegetat	ion¹ (Expl	ain)
Definitions of Vegetation Strata: Tree – Woody plants 3 in. (7.6 cm) or more in diabreast height (DBH), regardless of height.	Definitions of Vegetation Strata: Tree – Woody plants 3 in. (7.6 cm) or more in diameter a breast height (DBH), regardless of height. Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of	B. Persicaria virginiana	5	No	FAC	¹Indicators of hydric soil and wetland h	nydrology	must be
Tree – Woody plants 3 in. (7.6 cm) or more in dia breast height (DBH), regardless of height.	Tree – Woody plants 3 in. (7.6 cm) or more in diameter a breast height (DBH), regardless of height. Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of	1				present, unless disturbed or problema	atic	
breast height (DBH), regardless of height.	breast height (DBH), regardless of height. Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of	5.				Definitions of Vegetation Strata:		
	Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of	5.				Tree – Woody plants 3 in. (7.6 cm) or m	nore in dia	ameter a
	greater than or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of	7				breast height (DBH), regardless of heig	ght.	
3 Sapling/shrub – Woody plants less than 3 in. DB	Herb – All herbaceous (non-woody) plants, regardless of	3				Sapling/shrub – Woody plants less that	n 3 in. DB	H and
greater than or equal to 3.28 ft (1 m) tall.		9.	-			greater than or equal to 3.28 ft (1 m) to	all.	
10. Herb – All herbaceous (non-woody) plants, rega							_	rdless of
11.	size, and woody plants less than 3.26 it tail.	I1.						
2. Woody villes – All woody villes greater than 3.20	Woody vines – All woody vines greater than 3.28 ft in						than 3.28	3 ft in
60 = Total Cover			60	= Total Cove	r	height.		
Woody Vine Stratum (Plot size: 30 ft) Hydrophytic Vegetation Present? Yes ✓ No	——————————————————————————————————————	Voody Vine Stratum (Plot size: 30 ft)		=		Hydrophytic Vegetation Present? Yes	No	
	——————————————————————————————————————		2	No	FAC			
	60 = Total Cover height. Hydrophytic Vegetation Present? Yes ✓ No					•		
	60 = Total Cover height. Hydrophytic Vegetation Present? Yes ✓ No	1				•		
	60 = Total Cover height. Hydrophytic Vegetation Present? Yes ✓ No	2.						
3.	60 = Total Cover height. Hydrophytic Vegetation Present? Yes ✓ No	3.						
Woody Vine Stratum (Plot size: _30 ft) 1. Toxicodendron radicans		Noody Vine Stratum (Plot size: <u>30 ft</u>) 1. <i>Toxicodendron radicans</i>		_			s <u>/</u> No	
Woody vines All woody vines greater than 3.29	Woody vines – All woody vines greater than 3.28 ft in							3 ft in
height.		۷						
The decorpt of the North Asia Decorpt North Asia	——————————————————————————————————————		- 60	_= Total Cove	er	Hydrophytic Vegetation Present? Veg	. / No	
voody viile Stratum (1 lot 3/2e	60 = Total Cover height.					Trydrophydd Vegetadol Tresent.	, <u>v</u> 110	
	60 = Total Cover height. Hydrophytic Vegetation Present? Yes ✓ No			<u>No</u>	FAC			
	60 = Total Cover height. Hydrophytic Vegetation Present? Yes ✓ No					.		
·	60 = Total Cover height. Hydrophytic Vegetation Present? Yes _✓_ No	•						
	60 = Total Cover height. Hydrophytic Vegetation Present? Yes ✓ No				·	Í		
	60 = Total Cover height. Hydrophytic Vegetation Present? Yes ✓ No							

	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0 - 11	10YR 3/1	4	7.5YR 4/6	4	С	M		
		_		_				
		_		_				
		_						
		_		_				
		_						
		- —		_				
		- —						
		- —						
	oncentration, D = D	Deplet	ion, RM = Reduced	d Mat	rix, MS =	Masked Sa	ind Grains. ² L	ocation: PL = Pore Lining, M = Matrix.
	ndicators:							Indicators for Problematic Hydric Soils ³ :
_ Histosol			Polyvalue Be					2 cm Muck (A10) (LRR K, L, MLRA 149B)
	oipedon (A2)		Thin Dark Su				49B)	Coast Prairie Redox (A16) (LRR K, L, R)
_ Black Hi: Hydroge	en Sulfide (A4)		Loamy Muck Loamy Gleye	-		(LKK K, L)		5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
	d Layers (A5)		Depleted Ma					Dark Surface (S7) (LRR K, L)
	d Below Dark Surfa	ce (A1						Polyvalue Below Surface (S8) (LRR K, L)
	rk Surface (A12)		Depleted Da)		Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L, R)
_ Sandy M	lucky Mineral (S1)		Redox Depre	oizze	ns (F8)			Piedmont Floodplain Soils (F19) (MLRA 149B)
_ Sandy G	leyed Matrix (S4)							Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
-	edox (S5)							Red Parent Material (F21)
	l Matrix (S6)							Very Shallow Dark Surface (TF12)
_ Dark Su	rface (S7) (LRR R, M	LRA 14	49B)					Other (Explain in Remarks)
ndicators	of hydrophytic vege	etation	and wetland hyd	rolog	y must b	e present,	unless disturbe	d or problematic.
	ayer (if observed):					1		·
	Type:		Clay			Hydric So	il Present?	Yes/_ No
	Depth (inches):		11			_		
	,							
marks:								
marks:								
marks:								
marks:								
marks:								
narks:								
narks:								
narks:								
marks:								
marks:								
marks:								
marks:								
marks:								
marks:								
marks:								

Hydrology Photos





Project/Site: Trelina	City/County: Wat	erloo, Seneca	Sampling Date: 2019-June-25						
Applicant/Owner: NextEra		State: NY	Sampling Point: W-NWJ-15; UPL-1						
Investigator(s): Nick DeJohn, N	ate Jones	Section, Township,	Range:						
Landform (hillslope, terrace, etc.)	: Agricultural Field	Local relief (concave, conv	rex, none): Flat Slope (%): 0-1						
Subregion (LRR or MLRA): L	RR R	Lat: 42.892564027	6 Long: -76.9298035093 Datum: WGS84						
Soil Map Unit Name: Cosad lo	amy fine sand		NWI classification:						
Are climatic/hydrologic condition	is on the site typical for this time of ye	ear? Yes No	(If no, explain in Remarks.)						
Are Vegetation <u></u> ✓, Soil,	or Hydrology significantly dis		al Circumstances" present? Yes 🔟 No						
Are Vegetation, Soil,	or Hydrology naturally probl	lematic? (If needed,	explain any answers in Remarks.)						
SUMMARY OF FINDINGS – A	Attach site map showing sampli	ng point locations, trar	nsects, important features, etc.						
Hydrophytic Vegetation Present	? Yes No _ _/ _								
Hydric Soil Present?	Yes No	Is the Sampled Area withi	n a Wetland? Yes No/						
		· ·							
Wetland Hydrology Present?	Yes No	If yes, optional Wetland S	ite ID:						
Remarks: (Explain alternative pro	ocedures here or in a separate report								
TRC covertype is UPL. Circumstances are not normal due to agricultural activities, Recent rain									
,									
HYDROLOGY									
Wetland Hydrology Indicators:									
• ••	one is required; check all that apply)		Secondary Indicators (minimum of two required)						
Surface Water (A1)	Water-Stained Lea	2) (OC (PO)	Surface Soil Cracks (B6)						
High Water Table (A2)	Aquatic Fauna (B1		Drainage Patterns (B10)						
Saturation (A3)	Aquatic Fadina (B) Marl Deposits (B1		Moss Trim Lines (B16)						
Water Marks (B1)	Hydrogen Sulfide		Dry-Season Water Table (C2)						
Sediment Deposits (B2)	, ,	neres on Living Roots (C3)	Crayfish Burrows (C8)						
		0 . ,	Saturation Visible on Aerial Imagery (C9)						
Drift Deposits (B3)	Presence of Redu	ced Iron (C4)	Stunted or Stressed Plants (D1)						
Algal Mat or Crust (B4)	Recent Iron Reduc	ction in Tilled Soils (C6)	Geomorphic Position (D2)						
Iron Deposits (B5)	Thin Muck Surface	e (C7)	Shallow Aquitard (D3)						
Inundation Visible on Aerial I		Remarks)	Microtopographic Relief (D4)						
Sparsely Vegetated Concave	Surface (B8)		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)		·	-						
	gauge monitoring well social photo	c provious inspections) if	l						
Describe Recorded Data (stream	n gauge, monitoring well, aerial photo	s, previous irispections), ii a	avallable.						
Remarks:									

				T			
Tree Stratum (Plot size:30 ft)		Dominant		Dominance Test worksh			
	% Cover	Species?	Status	Number of Dominant Sp	pecies That	0	(A)
1				Are OBL, FACW, or FAC:			
2.				Total Number of Domin	ant Species	1	(B)
3.				Across All Strata:			
4.				Percent of Dominant Sp	ecies That	0	(A/B)
5.				Are OBL, FACW, or FAC:			`_
6				Prevalence Index works	heet:		
7.				Total % Cover o	of:	Multiply	<u>By:</u>
7.		= Total Cov		- OBL species	0	x 1 =	0
		_= TOTAL COV	/er	FACW species	0	x 2 =	0
Sapling/Shrub Stratum (Plot size: 15 ft)				FAC species	0	x 3 =	0
1				- FACU species	30	x 4 =	120
2				- UPL species	0	x 5 =	0
3				Column Totals	30	(A)	120 (B)
4				- Prevalence Inc		4	120 (b)
5.						4	
6.				Hydrophytic Vegetation			
7.				1- Rapid Test for H		egetation	1
		= Total Cov	/er	2 - Dominance Tes			
Herb Stratum (Plot size: _ 5 ft)		-		3 - Prevalence Inde	ex is $\leq 3.0^{1}$		
1. Ambrosia artemisiifolia	25	Voc	FACU	4 - Morphological A	Adaptations ¹	(Provide	supporting
		Yes		- data in Remarks or on a	separate sh	ieet)	
2. <i>Plantago major</i>	5	No	FACU	– Problematic Hydro	phytic Vege	tation¹ (Ex	(plain)
3				Indicators of hydric soil	and wetlan	d hydrolo	gy must be
4				_ present, unless disturbe	ed or probler	matic	
5				Definitions of Vegetation	n Strata:		
6				Tree – Woody plants 3 ir	n. (7.6 cm) or	more in	diameter at
7.				breast height (DBH), reg	ardless of h	eight.	
8.				Sapling/shrub - Woody	plants less tl	han 3 in. [DBH and
9.				greater than or equal to	3.28 ft (1 m) tall.	
10.				Herb – All herbaceous (r	non-woody)	plants, re	gardless of
11.				size, and woody plants l	ess than 3.2	8 ft tall.	
12.				Woody vines - All woody	y vines great	er than 3	.28 ft in
12.		- Total Car		height.			
W 1.75 St. (PL.) 20.6 \	30	_= Total Cov	/er	Hydrophytic Vegetation	Present?	es N	
Woody Vine Stratum (Plot size: 30 ft				ya. opyaa vogatation			
1.				-			
2				_			
3.				_			
4				_			
	0	= Total Cov	/er				
Remarks: (Include photo numbers here or on a separa	to choot)	= "					
Remarks. (include prioto numbers here or on a separa	ite sileet.)						

Profile Des	cription: (Describe t Matrix	to the de	epth needed to de Redox			indicato	r or confirm the al	bsence of inc	dicators.)
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture		Remarks
0 - 10	10YR 4/3	100	Color (moist)	70	Туре	LUC-	Silt Loam		Remarks
0-10	1011/4/3	100		_			Silt Loain		
-		·		_					
				_					
				_					
		· —— ·		_					
¹Type: C = 0	Concentration, D = I	Depletio	n, RM = Reduced	Mati	rix, MS =	Masked	Sand Grains. ² Lo	ocation: PL =	Pore Lining, M = Matrix.
Hydric Soil		<u>'</u>	,		<u>, </u>				for Problematic Hydric Soils ³ :
Histoso			Polyvalue Rel	ow S	urface (S	8) (I RR	R, MLRA 149B)		•
	oipedon (A2)		Thin Dark Su						luck (A10) (LRR K, L, MLRA 149B)
	stic (A3)		Loamy Mucky						Prairie Redox (A16) (LRR K, L, R)
Hydrog	en Sulfide (A4)		Loamy Gleye						lucky Peat or Peat (S3) (LRR K, L, R)
Stratifie	d Layers (A5)		Depleted Ma						urface (S7) (LRR K, L) ue Below Surface (S8) (LRR K, L)
Deplete	d Below Dark Surfa	ace (A11)	Redox Dark S	urfa	ce (F6)			-	ark Surface (S9) (LRR K, L)
Thick D	ark Surface (A12)		Depleted Dar	k Su	rface (F7))			anganese Masses (F12) (LRR K, L, R)
Sandy N	lucky Mineral (S1)		Redox Depre	ssior	ıs (F8)				ont Floodplain Soils (F19) (MLRA 149B)
Sandy C	Gleyed Matrix (S4)								Spodic (TA6) (MLRA 144A, 145, 149B)
Sandy F	tedox (S5)								rent Material (F21)
Strippe	d Matrix (S6)								nallow Dark Surface (TF12)
Dark Su	rface (S7) (LRR R, M	1LRA 149	9B)					-	Explain in Remarks)
3Indicators	of hydrophytic veg	etation :	and wetland hydr	പറത	v must h	a nracar	nt unlace dicturha		•
	Layer (if observed):		and Wettand Hydr	olog.	y must b	e preser	it, diliess distarbe	d of problem	natic.
	Type:		hard pan			Hydric	Soil Present?	Ye	es No/_
	Depth (inches):	-	10			1.74		.,	
Remarks:	Depart (inches).		10					 ;	
Observed s	oil compaction was	s due to	agricultural activ	ities.					

Vegetation Photos



Soil Photos



Project/Site: Trelina	City/County: Gen	eva, Seneca	Sampling Date: 2019-June-25			
Applicant/Owner: NextEra		State: NY	Sampling Po	oint: W-NWJ-16; PEM-1		
Investigator(s): Nick DeJohn,	Nate Jones	Section, Township,	Range:			
Landform (hillslope, terrace, etc	c.): Depression	Local relief (concave, conv	ex, none): Concave	Slope (%): 0-1		
Subregion (LRR or MLRA):	LRR R	Lat: 42.892328	Lat: 42.892328 Long: -76.926437			
Soil Map Unit Name: Cosad l	oamy fine sand		NWI cl	assification:		
Are climatic/hydrologic conditio	ns on the site typical for this time of ye	ear? Yes 🟒 No	(If no, explain in I	Remarks.)		
Are Vegetation, Soil,			al Circumstances" pres	ent? Yes No		
Are Vegetation, Soil,	or Hydrology naturally prob	lematic? (If needed,	explain any answers in	Remarks.)		
SUMMARY OF FINDINGS -	Attach site map showing sampli	ng point locations, tra	nsects, important fe	eatures, etc.		
Hydrophytic Vegetation Presen		<u> </u>				
Hydric Soil Present?	Yes <u></u> No	Is the Sampled Area with	n a Watland?	Voc. / No.		
		· ·		Yes/_ No		
Wetland Hydrology Present?	Yes _ ∠ _ No	If yes, optional Wetland S	ite ID:	W-NWJ-16		
Remarks: (Explain alternative p	rocedures here or in a separate report	:)				
TPC covertype is PEM Circums	tances are not normal due to agricultu	ral activities				
The covertype is FLIVI. Circuitis	tances are not normal due to agricultu	rai activities				
HYDROLOGY						
Wetland Hydrology Indicators:						
Primary Indicators (minimum o	of one is required; check all that apply)		-	(minimum of two required)		
∕ Surface Water (A1)	Water-Stained Lea		Surface Soil Cracks (B6) Drainage Patterns (B10)			
<u>✓</u> High Water Table (A2)	Aquatic Fauna (B1		•			
∕ Saturation (A3)	Marl Deposits (B1		Moss Trim Lines (B			
Water Marks (B1)	Hydrogen Sulfide		Dry-Season Water			
Sediment Deposits (B2)	Oxidized Rhizospl	heres on Living Roots (C3)	Crayfish Burrows (Saturation Visible of			
Duift Danasita (D2)	Dunnan of Dodg	and lune (CA)				
Drift Deposits (B3) Algal Mat or Crust (B4)	Presence of Redu	ced from (C4) ction in Tilled Soils (C6)	Stunted or Stresse			
Algal Mat of Crust (B4) Iron Deposits (B5)	Recent from Reduction Thin Muck Surface		✓ Geomorphic Position (D2) Shallow Aquitard (D3)			
Inundation Visible on Aerial			Shallow Aquitard (D3) Microtopographic Relief (D4)			
Sparsely Vegetated Concave		remarks)	✓ FAC-Neutral Test ([
Field Observations:			(:-7		
Surface Water Present?	Yes _ 🗸 No Depth	(inches): 2				
	·	· -		.a. v . v		
Water Table Present?	Yes No Depth	(inches): 0	Wetland Hydrology Pr	resent? Yes No		
Saturation Present?	Yes No Depth	(inches): 0				
(includes capillary fringe)						
Describe Recorded Data (stream	m gauge, monitoring well, aerial photo	s, previous inspections), if	available:			
Remarks:						
Remarks.						

	Absoluto	Dominant	Indicator	Dominance Test works	heet.		
<u>Tree Stratum</u> (Plot size: <u>30 ft</u>)		Species?	Status	Number of Dominant			
1.	70 COVC	эрсскоз.	Julias	Are OBL, FACW, or FAC	•	3	(A)
2.				Total Number of Domi			
		·		Across All Strata:		3	(B)
3.				Percent of Dominant S	species That	400	
4.				Are OBL, FACW, or FAC	: :	100	(A/B)
5.				Prevalence Index work	sheet:	·	
6.				Total % Cover	of:	Multiply I	<u>Ву:</u>
7				- OBL species	35	x 1 =	35
	0	= Total Cove	er	FACW species	0	x 2 =	0
Sapling/Shrub Stratum (Plot size: 15 ft)				FAC species	40	x 3 =	120
1				FACU species	0	x 4 =	0
2				UPL species	0	x 5 =	0
3.				Column Totals	75	(A)	155 (B)
4					ndex = B/A =		.00 (0)
5							 -
6				Hydrophytic Vegetatio		lagatation	
7				1- Rapid Test for 2 - Dominance Te		regetation	
	0	= Total Cove	er	✓ 3 - Prevalence In			
Herb Stratum (Plot size: <u>5 ft</u>)						1 (Drovido d	nnortina
1. Juncus tenuis	40	Yes	FAC	4 - Morphologica - data in Remarks or on			supporting
2. Eleocharis obtusa	20	Yes	OBL	Problematic Hyd			nlain)
3. Ranunculus sceleratus	15	Yes	OBL	Indicators of hydric so			
4.				present, unless distur			sy must be
5.				Definitions of Vegetati	-		
6.				Tree – Woody plants 3		r more in c	liameter at
7.				breast height (DBH), re			nameter at
8.				Sapling/shrub - Wood			BH and
9.				greater than or equal			
				Herb – All herbaceous			ardless of
				size, and woody plants	-		
11. 12.				Woody vines – All woo	dy vines great	ter than 3.	28 ft in
	<u></u> 75	= Total Cove	or	height.			
Woody Vine Stratum (Plot size:30 ft)		- Total Cove	C1	Hydrophytic Vegetation	on Present? \	Yes _ ∠ _ N	0
1.							
2				-			
3.				=			
-				-			
4		- Total Cau		-			
	0	= Total Cove	er				
Remarks: (Include photo numbers here or on a se	parate sheet.)						
Active agricultural field							

(inches)	Matrix	06	Color (moist)		ures	1052	Tox	tura	Remarks
(inches) 0 - 4	Color (moist) 10YR 3/2	<u>%</u> 98	10YR 5/8	- <u>%</u> 2	Type¹ C	M Loc²		lav Loam	Remarks
4 - 16	10YR 3/2	95	10YR 5/8	<u> </u>		M		ilay Loam ly Clay	
4-10	1011/3/2	93	1011 3/6			IVI	Sano	ly Clay	
-		_							
		_						_	
		_		_					
		_		_					
				_					
	-	- —							
		- —		- —					
			- DM Dadwar	1 1 4 - 4		NA - alas al Casa de	C		- M. Materia
	Concentration, D = I Indicators:	Depleti	on, RIVI = Reduced	ıwat	rix, IVIS =	Masked Sand	Grains. ² L	ocation: PL = Pore Lini Indicators for Proble	-
Histosol			Polyvalue Re	Jow 9	iurfaca (S	8) (LRR R, MLR	Δ 1/QR)		•
	oipedon (A2)		-			R, MLRA 149E			(LRR K, L, MLRA 149B)
Black Hi	•		Loamy Muck				•		dox (A16) (LRR K, L, R) t or Peat (S3) (LRR K, L, R)
_ Hydroge	en Sulfide (A4)		Loamy Gleye	ed Ma	trix (F2)			Dark Surface (S7	
_ Stratifie	d Layers (A5)		Depleted Ma	atrix (F3)				Surface (S8) (LRR K, L)
	d Below Dark Surfa	ice (A11						Thin Dark Surfac	
_	ark Surface (A12)		Depleted Da			1			Masses (F12) (LRR K, L, R)
•	lucky Mineral (S1)		Redox Depre	essio	ıs (F8)				plain Soils (F19) (MLRA 149B)
•	ileyed Matrix (S4)								6) (MLRA 144A, 145, 149B)
-	edox (S5)							Red Parent Mate	
	d Matrix (S6)							Very Shallow Da	
Dark Su	rface (S7) (LRR R, W	ILRA 14	19B)					Other (Explain in	
ndicators	of hydrophytic veg	etation	and wetland hyd	rolog	y must be	e present, unle	ss disturbe	ed or problematic.	
estrictive l	_ayer (if observed):								
			hard pan	_		Hydric Soil Pr	esent?	Ye	s No
	Type:		ilai u pail						
emarks:	Type: Depth (inches):		16	_					



Soil Photos



Project/Site: Trelina	City/County: Ger	ieva, Seneca		Sampling Date: 2019-June-25		
Applicant/Owner: NextEra		State: NY		Sampling Point: W-NWJ-16; UPL-1		
Investigator(s): Nick DeJohn, Nat	e Jones	Section, Township,	Range:			
Landform (hillslope, terrace, etc.):	Agricultural Field	Local relief (concave, conve	ex, none):_	Flat	Slope (%): 0-1	
Subregion (LRR or MLRA): LRF	₹R	Lat: 42.892345	Long:	-76.926628	Datum: WGS84	
Soil Map Unit Name: Cosad loan	ny fine sand			NWI classification	:	
Are climatic/hydrologic conditions	on the site typical for this time of ye	ear? Yes 🟒 No	(If no	o, explain in Remarks.)		
Are Vegetation, Soil,	or Hydrology significantly di	sturbed? Are "Norma	al Circumst	tances" present?	′es No /	
Are Vegetation, Soil,	or Hydrology naturally prob	lematic? (If needed, o	explain an	y answers in Remarks.)		
SUMMARY OF FINDINGS - Att	ach site map showing sampli	ng point locations, tran	sects, im	nportant features, e	tc.	
Hydrophytic Vegetation Present?	Yes No _ ✓					
Hydric Soil Present?	Yes No	Is the Sampled Area withir	n a Wetlan	d? Yes	No	
_	Yes No	· ·				
Wetland Hydrology Present?		If yes, optional Wetland Sit	te ib.			
Remarks: (Explain alternative proc	edures here or in a separate report	:)				
TRC covertype is UPL. Circumstand	ces are not normal due to agricultui	ral activities				
HYDROLOGY						
Wetland Hydrology Indicators:			Cd	. In diantana (minima)	-£ +	
Primary Indicators (minimum of oi	ne is required; check all that apply)			y Indicators (minimum	of two required)	
Surface Water (A1)	Water-Stained Le			e Soil Cracks (B6)		
High Water Table (A2)	Aquatic Fauna (B´			age Patterns (B10) Trim Lines (B16)		
Saturation (A3)	Marl Deposits (B1			eason Water Table (C2)		
Water Marks (B1) Sediment Deposits (B2)	Hydrogen Sulfide		-	sh Burrows (C8)		
Sediment Deposits (B2)	Oxidized Kilizospi	neres on Living Roots (CS)	-	ition Visible on Aerial In	nagery (C9)	
Drift Deposits (B3)	Presence of Redu	ced Iron (C4)	Stunte	ed or Stressed Plants (D	1)	
Algal Mat or Crust (B4)		ction in Tilled Soils (C6)	Geomorphic Position (D2)			
Iron Deposits (B5)	Thin Muck Surfac	e (C7)	Shallow Aquitard (D3)			
Inundation Visible on Aerial Im	agery (B7) Other (Explain in	Remarks)	Microtopographic Relief (D4)			
Sparsely Vegetated Concave Su	ırface (B8)		FAC-N	eutral Test (D5)		
Field Observations:						
Surface Water Present?	Yes No Depth	(inches):				
Water Table Present?	Yes No Depth	(inches):	Wetland I	Hydrology Present?	Yes No ∠	
Saturation Present?	Yes No Depth	(inches):				
(includes capillary fringe)						
	gauge, monitoring well, aerial photo	s, previous inspections), if a	vailable:			
	8 2 7 2 2 p	.,,				
Remarks:						
Remarks.						

<u>Tree Stratum</u> (Plot size: <u>30 ft</u>)		Dominant		Dominance Test worksheet:	T	
	% Cover	Species?	Status	Number of Dominant Species Are OBL, FACW, or FAC:	inat 1	(A)
1				Total Number of Dominant Sp		
2				Across All Strata:	2	(B)
3				Percent of Dominant Species		
4				Are OBL, FACW, or FAC:	50	(A/B)
5				Prevalence Index worksheet:		
6.				Total % Cover of:	Multiplu	Ds.a.
7.					Multiply	-
	0	= Total Cove	er	OBL species 0	x 1 =	0
Sapling/Shrub Stratum (Plot size:15 ft)		=		FACW species 0	x 2 =	0
1				FAC species 10	x 3 =	30
2.				FACU species 30	x 4 =	120
3.				UPL species 0	x 5 =	0
-				Column Totals 40	(A)	150 (B)
4.				Prevalence Index =	B/A = <u>3.8</u>	
5				Hydrophytic Vegetation Indica	tors:	
6				1- Rapid Test for Hydrop		1
7				2 - Dominance Test is > 5		
	0	= Total Cove	er	3 - Prevalence Index is ≤		
Herb Stratum (Plot size:5 ft)				4 - Morphological Adapta		supporting
1. <i>Ambrosia artemisiifolia</i>	30	Yes	FACU	data in Remarks or on a separ		supporting
2. Juncus tenuis	10	Yes	FAC	Problematic Hydrophytic		vnlain)
3.				Indicators of hydric soil and v	-	•
4.				present, unless disturbed or p		gy must be
5.				Definitions of Vegetation Stra		_
6.				Tree – Woody plants 3 in. (7.6		diameter at
7.				breast height (DBH), regardles		ularrieter at
8.				Sapling/shrub – Woody plants		DRH and
9.				greater than or equal to 3.28		DDITANG
40				Herb – All herbaceous (non-w		gardless of
10				size, and woody plants less th		gar aress or
11				Woody vines – All woody vines		28 ft in
12				height.	Spreater than 5	.2016111
	40	_= Total Cove	er		43 - V N	
Woody Vine Stratum (Plot size: 30 ft)				Hydrophytic Vegetation Prese	ent? yes r	NO <u>Z</u>
1						
2						
3.						
4.						
	0	= Total Cove	er			
5 1 4 1 1		=		_		
Remarks: (Include photo numbers here or on a sepa	arate sheet.)					

Depth Matrix	to the d	epth needed to d Redox			ndicato	or confirm the al	bsence of indicators.)
(inches) Color (moist)	 %	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0 - 12 10YR 4/3	100			.,,,,,		Silt Loam	
<u></u>			_				
			_				
			_				
¹Type: C = Concentration, D =	= Depletio	on, RM = Reduced	Matı	rix, MS =	Masked	Sand Grains. ² Le	ocation: PL = Pore Lining, M = Matrix.
Hydric Soil Indicators:							Indicators for Problematic Hydric Soils ³ :
Histosol (A1)		-				R, MLRA 149B)	2 cm Muck (A10) (LRR K, L, MLRA 149B)
Histic Epipedon (A2)		Thin Dark Su					Coast Prairie Redox (A16) (LRR K, L, R)
Black Histic (A3) Hydrogen Sulfide (A4)		Loamy Muck			(LKK K, I	_)	5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
Stratified Layers (A5)		Depleted Ma					Dark Surface (S7) (LRR K, L)
Depleted Below Dark Sur	face (A11						Polyvalue Below Surface (S8) (LRR K, L)
Thick Dark Surface (A12)		Depleted Dar	k Sui	face (F7)			Thin Dark Surface (S9) (LRR K, L)
Sandy Mucky Mineral (S1)	Redox Depre	ssion	s (F8)			Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B)
Sandy Gleyed Matrix (S4)							Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
Sandy Redox (S5)							Red Parent Material (F21)
Stripped Matrix (S6)							Very Shallow Dark Surface (TF12)
Dark Surface (S7) (LRR R,	MLRA 14	9B)					Other (Explain in Remarks)
³ Indicators of hydrophytic ve	getation	and wetland hydr	olog	/ must be	e preser	it, unless disturbe	d or problematic.
Restrictive Layer (if observed	_				İ		,
Type:		compaction			Hydric	Soil Present?	Yes No/_
Depth (inches):		12	•				
Remarks:							

Vegetation Photos



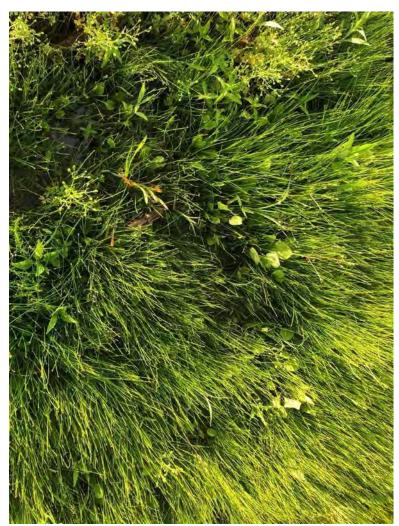


Project/Site: Trelina	City/County: Wa	terloo, Seneca	Sampling Da	Sampling Date: 2019-June-26		
Applicant/Owner: NextEra		State: NY	Sampling Poin	Sampling Point: W-NWJ-17; PEM-1		
Investigator(s): Nick DeJohn,	Nate Jones	Section, Township,	Range:			
Landform (hillslope, terrace, etc	c.): Agricultural Field	Local relief (concave, conv	ex, none): Flat	Slope (%): 0-1		
Subregion (LRR or MLRA):	LRR L	Lat: 42.894366555	9 Long: -76.92942523	4 Datum: WGS84		
Soil Map Unit Name: Odessa	silt loam, 0 to 2 percent slopes		NWI class	sification:		
Are climatic/hydrologic condition	ons on the site typical for this time of ye		(If no, explain in Rem	narks.)		
Are Vegetation 🟒 , Soil			al Circumstances" presen	t? Yes 🟒 No		
Are Vegetation, Soil	, or Hydrology naturally prob	lematic? (If needed,	explain any answers in Re	emarks.)		
SUMMARY OF FINDINGS -	Attach site map showing sampli	ing point locations, tra	nsects, important feat	tures, etc.		
Hydrophytic Vegetation Preser	nt? Yes _ ✓ _ No					
Hydric Soil Present?	Yes No	Is the Sampled Area with	n a Wetland?	Yes/_ No		
	Yes No	If yes, optional Wetland S		W-NWJ-17		
Wetland Hydrology Present?			ite iD.	VV-IN VVJ- I /		
Remarks: (Explain alternative p	procedures here or in a separate repor	t)				
TRC covertype is PEM. Circums	tances are not normal due to agricultu	iral activities, Wetter than a	verage year			
HYDROLOGY						
Mada ad Dada la sa la disata an						
Wetland Hydrology Indicators:						
Primary Indicators (minimum o	of one is required; check all that apply)		Secondary Indicators (mi	•		
✓ Surface Water (A1)	Water-Stained Le	aves (B9)	Surface Soil Cracks (E			
✓ High Water Table (A2)	Aquatic Fauna (B		Drainage Patterns (B			
✓ Saturation (A3)	Marl Deposits (B1		Moss Trim Lines (B16)			
Water Marks (B1)	Hydrogen Sulfide		Dry-Season Water Table (C2)			
Sediment Deposits (B2)	Oxidized Rhizosp	heres on Living Roots (C3)	 Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) 			
Duift Danasita (D2)	Dynama of Dady	d Juan (C.1)				
Drift Deposits (B3) Algal Mat or Crust (B4)	Presence of Redu	iction in Tilled Soils (C6)	Stunted or Stressed FGeomorphic Position			
Algal Mat of Crust (B4) Iron Deposits (B5)	Thin Muck Surfac		Shallow Aquitard (D3			
Inundation Visible on Aeria			Microtopographic Re			
Sparsely Vegetated Concav		Nemarks)	✓ FAC-Neutral Test (D5)			
Field Observations:	e Surface (B8)			<u> </u>		
Surface Water Present?	Vos / No Donth	ı (inches):				
	•	· -		12 V - N		
Water Table Present?	•	n (inches):	Wetland Hydrology Pres	ent? Yes No		
Saturation Present?	Yes _ V No Depth	(inches): 0				
(includes capillary fringe)						
Describe Recorded Data (strea	m gauge, monitoring well, aerial photo	os, previous inspections), if	available:			
Remarks:						

				Danis Tark dala			
<u>Tree Stratum</u> (Plot size: <u>30 ft</u>)		Dominant		Dominance Test worksho			
	% Cover	Species?	Status	Number of Dominant Sp Are OBL, FACW, or FAC:	ecies mai	1	(A)
1				Total Number of Domina	nt Charias		
2				Across All Strata:	inic species	1	(B)
3.				Percent of Dominant Spe	ocios That		
4				Are OBL, FACW, or FAC:	ecies iliat	100	(A/B)
5				Prevalence Index worksh	noot:		
6.				Total % Cover o		Multiply F). <i>n</i>
7.					_	Multiply E	-
		= Total Cove	r	OBL species	85	x 1 =	85
Sapling/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
3.				UPL species	0	x 5 =	0
-				Column Totals	85	(A)	85 (B)
4				Prevalence Ind	ex = B/A = .	1	
5				Hydrophytic Vegetation I	ndicators:		
6				1- Rapid Test for Hy		egetation	
7				2 - Dominance Test		-0	
	0	= Total Cove	r	✓ 3 - Prevalence Inde			
Herb Stratum (Plot size: <u>5 ft</u>)				4 - Morphological A		(Provide s	unnorting
1. <i>Eleocharis palustris</i>	70	Yes	OBL	data in Remarks or on a			apporting
2. Alisma triviale	15	No	OBL	Problematic Hydro			nlain)
3.				¹Indicators of hydric soil			
4.				present, unless disturbed			y must be
5.				Definitions of Vegetation	-	nacie	.
6.				Tree – Woody plants 3 in		more in d	iamotor at
7.				breast height (DBH), rega			iairietei at
8.				Sapling/shrub – Woody p			RH and
				greater than or equal to			DIT and
9.				Herb – All herbaceous (n			ardless of
10				size, and woody plants le		_	araicss or
11				Woody vines – All woody			28 ft in
12				height.	viries great		20 10 111
	85	_= Total Cove	r		D	/ / NI	
Woody Vine Stratum (Plot size: 30 ft)				Hydrophytic Vegetation	Present? Y	es No	0
1							
2							
3.							
4.							
	0	= Total Cove	r				
5 1 " 1 1 1							
Remarks: (Include photo numbers here or on a sepa	irate sheet.)						

Profile Desc Depth	ription: (Describe to Matrix	o the d	epth needed to o			indicato	r or confirm the a	bsence	of indicators.)
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture		Remarks
0 - 12	10YR 3/1	95	10YR 6/8	5	C	М	Silty Clay		
						_			
				- —					
		· — ·							-
		_							
		· — ·		- —					
	oncentration, D = [Depletio	on, RM = Reduced	d Mat	rix, MS =	Masked	Sand Grains. ² Lo		: PL = Pore Lining, M = Matrix.
Hydric Soil I			D 1 1 -			.o ==	B 141 B4 4 455	Indica	itors for Problematic Hydric Soils ³ :
Black Hi	oipedon (A2) stic (A3)		Thin Dark Su Loamy Muck	ırface y Mir	e (S9) (LRF neral (F1)	R R, MLR		Co	cm Muck (A10) (LRR K, L, MLRA 149B) past Prairie Redox (A16) (LRR K, L, R) cm Mucky Peat or Peat (S3) (LRR K, L, R)
Stratifie	en Sulfide (A4) d Layers (A5)		Loamy Gleye Depleted Ma	atrix (F3)			Da	ark Surface (S7) (LRR K, L) Dlyvalue Below Surface (S8) (LRR K, L)
	d Below Dark Surfa	ce (A11							nin Dark Surface (S9) (LRR K, L)
	rk Surface (A12)		Depleted Da)			on-Manganese Masses (F12) (LRR K, L, R)
•	lucky Mineral (S1)		Redox Depre	101225	1S (F8)			Pi	edmont Floodplain Soils (F19) (MLRA 149B)
-	leyed Matrix (S4)							M	esic Spodic (TA6) (MLRA 144A, 145, 149B)
-	edox (S5)							Re	ed Parent Material (F21)
	Matrix (S6)								ery Shallow Dark Surface (TF12)
Dark Su	rface (S7) (LRR R, M	LRA 14	9B)					01	ther (Explain in Remarks)
	of hydrophytic vege	etation	and wetland hyd	rolog	y must b	e preser	nt, unless disturbe	ed or pr	oblematic.
	ayer (if observed):								
	Type:		Compaction	_		Hydric	: Soil Present?		Yes No
	Depth (inches):		12						_
Remarks:									

Hydrology Photos



Vegetation Photos



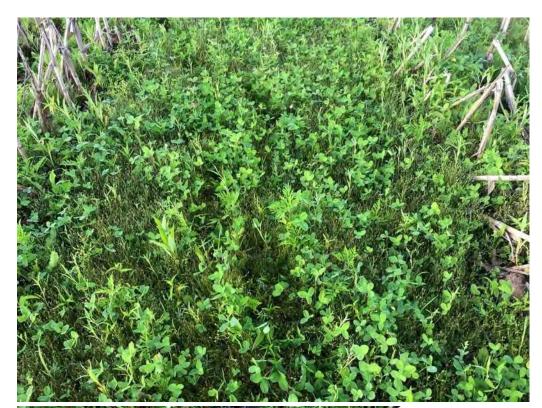


Project/Site: Trelina		City/County: Wate	erloo, Seneca	Sampling Date: 2019-June-26			
Applicant/Owner: N	extEra		State: NY		Sampling Point: W-NV	NJ-17; UPL-1	
Investigator(s): Nick	DeJohn, Nate Jones		Section, Township,	Range:			
Landform (hillslope, te	rrace, etc.): Agricultu	ral Field	Local relief (concave, conv	ex, none):_	Flat	Slope (%): 0-1	
Subregion (LRR or MLR	A): LRR L		Lat: 42.894460978	Long:	-76.9297127333	Datum: WGS84	
Soil Map Unit Name:	Odessa silt loam, 0 to 2	percent slopes	· ·		NWI classification	n:	
Are climatic/hydrologic	conditions on the site typ	oical for this time of ye	ear? Yes No	_ ∠ (If no,	explain in Remarks.)		
Are Vegetation <u> </u> ,	Soil, or Hydrolog	gy significantly dis	sturbed? Are "Norm	al Circumst	tances" present?	Yes No	
Are Vegetation,	Soil, or Hydrolog	gy naturally probl	lematic? (If needed,	explain an	y answers in Remarks.)	
SUMMARY OF FIND	INGS – Attach site ma	ap showing sampli	ng point locations, trar	nsects, im	ာportant features, မ	etc.	
Hydrophytic Vegetatio	n Present? Y	es No _ ✓					
Hydric Soil Present?	Υ	′es No _ _ ⁄_	Is the Sampled Area within	n a Wetland	d? Yes	No⁄_	
Wetland Hydrology Pr	esent? Y	es No _ _ _	If yes, optional Wetland Si	ite ID:			
Remarks: (Explain alte	rnative procedures here o	or in a separate report)				
TRC covertype is UPL.	Circumstances are not no	ormal due to agricultur	ral activities, Wetter than av	verage year	r		
HYDROLOGY							
Wetland Hydrology Inc							
Primary Indicators (mi	nimum of one is required	; check all that apply)		Secondary	y Indicators (minimum	of two required)	
Surface Water (A1)		Water-Stained Lea	aves (B9)		e Soil Cracks (B6)		
High Water Table (A	42)	Aquatic Fauna (B1			age Patterns (B10)		
Saturation (A3)		Marl Deposits (B1		Moss Trim Lines (B16)			
Water Marks (B1)	· (D2)	Hydrogen Sulfide		Dry-Season Water Table (C2) _{R1} Crayfish Burrows (C8)			
Sediment Deposits	(BZ)	Oxidized Knizospr	heres on Living Roots (C3)	-	ation Visible on Aerial Ir	magery (C9)	
Drift Deposits (B3)		Presence of Redu	ced Iron (C4)		ed or Stressed Plants (D		
Algal Mat or Crust	(B4)		ction in Tilled Soils (C6)		orphic Position (D2)	,	
Iron Deposits (B5)		Thin Muck Surface	e (C7)	Shallov	w Aquitard (D3)		
Inundation Visible	on Aerial Imagery (B7)	Other (Explain in I	Remarks)	Microt	topographic Relief (D4)		
	d Concave Surface (B8)			FAC-Ne	eutral Test (D5)		
Field Observations:							
Surface Water Present	t? Yes N	o <u> </u>	(inches):	_			
Water Table Present?	Yes N	o <u> </u>	(inches):	Wetland F	Hydrology Present?	Yes No ∠	
Saturation Present?	Yes N	o <u> </u>	(inches):				
(includes capillary frin	ge)						
		ring well, aerial photo:	s, previous inspections), if a	available:			
Remarks:							
Remarks.							

	Absolute	Dominant	Indicator	Dominance Test workshe	eet:		
Tree Stratum (Plot size: 30 ft)		Species?	Status	Number of Dominant Sp	ecies That	0	(4)
1.				Are OBL, FACW, or FAC:		0	(A)
2.				Total Number of Domina	nt Species	1	(D)
3.				Across All Strata:		'	(B)
				Percent of Dominant Spe	ecies That	0	(A (D)
4.				Are OBL, FACW, or FAC:			(A/B)
5.				Prevalence Index worksh	neet:		
6				Total % Cover o	<u>f:</u>	Multiply	By:
7				OBL species	0	x 1 =	0
	0	_= Total Cove	er	FACW species	0	x 2 =	0
Sapling/Shrub Stratum (Plot size:15 ft)				FAC species	0	x 3 =	0
1				FACU species	45	x 4 =	180
2				UPL species	0	x 5 =	0
3.				Column Totals	45	_	
4.				<u> </u>		(A) _	180 (B)
5.				Prevalence Ind	ex = B/A =	4	
6.				Hydrophytic Vegetation I			
7.				1- Rapid Test for Hy	drophytic V	egetation	
/·		= Total Cove		2 - Dominance Test	is > 50%		
		_ 10tal Cove	:1	3 - Prevalence Inde	x is ≤ 3.0^{1}		
Herb Stratum (Plot size: <u>5 ft</u>)				4 - Morphological A	daptations ¹	(Provide	supporting
1. Trifolium repens	45	Yes	FACU	data in Remarks or on a	separate sh	eet)	
2				Problematic Hydro	phytic Veget	tation¹ (Ex	plain)
3				¹Indicators of hydric soil	and wetland	d hydrolo	gy must be
4				present, unless disturbed	d or probler	natic	
5				Definitions of Vegetation	Strata:		
6.				Tree – Woody plants 3 in		more in	diameter at
7.				breast height (DBH), rega			
8.				Sapling/shrub - Woody p		_	BH and
9.				greater than or equal to			
				Herb – All herbaceous (n			gardless of
				size, and woody plants le			
11.				Woody vines - All woody	vines great	er than 3.	28 ft in
12				height.	Ü		
	45	_= Total Cove	er	Hydrophytic Vegetation	Drecent? V	/oc N	lo /
Woody Vine Stratum (Plot size: 30 ft)				Trydrophlytic Vegetation	rresent: 1	C3 1	10 <u>v</u>
1							
2							
3							
4							
	0	= Total Cove	er				
Demarks (Include abote numbers here or on a sense	ata shaat \						
Remarks: (Include photo numbers here or on a separ	ate sneet.)						

Profile Description: (Describe to Depth Matrix	=	document the ox Features	indicator or confirm the	absence of indicato	rs.)
· -			Loc² To	vturo	Domarke
	% Color (moist)	<u>%</u> Type¹	· 	xture	Remarks
0 - 10 10YR 3/2	100		Silty C	lay Loam	
			· 		
			· 		
			· —— ———		-
			· 		
			· 		
			· 		
1 Type: C = Concentration, D = D	Depletion, RM = Reduce	ed Matrix, MS =	Masked Sand Grains.	Location: PL = Pore	Lining, M = Matrix.
Hydric Soil Indicators:				Indicators for Pr	oblematic Hydric Soils³:
Histosol (A1)			88) (LRR R, MLRA 149B)	2 cm Muck (A	A10) (LRR K, L, MLRA 149B)
Histic Epipedon (A2)			R R, MLRA 149B)		Redox (A16) (LRR K, L, R)
Black Histic (A3)		cky Mineral (F1)	(LRR K, L)	5 cm Mucky	Peat or Peat (S3) (LRR K, L, R)
Hydrogen Sulfide (A4) Stratified Layers (A5)		/ed Matrix (F2)		Dark Surface	(S7) (LRR K, L)
Stratified Layers (AS) Depleted Below Dark Surfa	Depleted N			Polyvalue Be	low Surface (S8) (LRR K, L)
Thick Dark Surface (A12)	• • • • • • • • • • • • • • • • • • • •	ark Surface (F0))		rface (S9) (LRR K, L)
Sandy Mucky Mineral (S1)	•	ressions (F8)	,		iese Masses (F12) (LRR K, L, R)
Sandy Gleyed Matrix (S4)		. 233.3.13 (. 3)			oodplain Soils (F19) (MLRA 149B)
Sandy Redox (S5)					(TA6) (MLRA 144A, 145, 149B)
Stripped Matrix (S6)				Red Parent N	
Dark Surface (S7) (LRR R, M	I RA 149B)			-	Dark Surface (TF12)
				Other (Explai	in in Remarks)
³ Indicators of hydrophytic vege	etation and wetland hy	drology must b	e present, unless disturk	oed or problematic.	
Restrictive Layer (if observed):					
Type:	Rocks	_	Hydric Soil Present?		Yes No/_
Depth (inches):	10				-
Remarks:					

Vegetation Photos





Project/Site: Trelina	City/County:	Waterloo, Seneca	3	Sampling Date	e: 2019-June-26
Applicant/Owner: NextEra			State: NY	Sampling Point:	W-NWJ-18; PEM-1
Investigator(s): Nick DeJohn, N	late Jones	Secti	on, Township, Rang	e:	
Landform (hillslope, terrace, etc.): Depression	Local relief (concave, convex, no	one): Concave	Slope (%): 0-1
Subregion (LRR or MLRA):	.RR L	_ Lat: -	42.8928813665 L	ong: -76.928744875	Datum: WGS84
Soil Map Unit Name: Claverac	k loamy fine sand, 2 to 6 percent	slopes		NWI classi	fication:
Are climatic/hydrologic condition	ns on the site typical for this time	of year?	Yes No _∠ (If no, explain in Rema	arks.)
Are Vegetation, Soil,	or Hydrology significan	tly disturbed?		umstances" present?	
Are Vegetation, Soil,	or Hydrology naturally		(If needed, expla	in any answers in Rer	marks.)
SLIMMARY OF FINDINGS - A	Attach site map showing sar	mnling naint la	rations transect	s important featu	ires etc
SOMMON ACT OF THE PROPERTY OF	Trace map snowing sar	Tipining pointe lo	cations, transcet	s, important reace	
Hydrophytic Vegetation Present	? Yes No				
Hydric Soil Present?	Yes No	Is the Samp	led Area within a W	etland?	Yes No
Wetland Hydrology Present?	Yes No	If yes, optio	nal Wetland Site ID:		W-NWJ-18
	ocedures here or in a separate re				
remarks. (Explain alternative pr	ocedures here of in a separate re	ерог ()			
TRC covertype is PEM. Wetter th	an average year				
The covertype is i zivi. Wetter th	an average year				
HYDROLOGY					
Wetland Hydrology Indicators:					
Wetland Hydrology Indicators:		l- A	5		
Primary Indicators (minimum of	one is required; check all that ap	oply)		-	imum of two required)
✓ Surface Water (A1)	Water-Staine	ed Leaves (B9)		urface Soil Cracks (B6	-
✓ High Water Table (A2)	Aquatic Faun	na (B13)		rainage Patterns (B10))
✓ Saturation (A3)	Marl Deposit	rs (B15)		loss Trim Lines (B16)	
Water Marks (B1)	Hydrogen Su	ılfide Odor (C1)		ry-Season Water Tabl	e (C2)
Sediment Deposits (B2)	Oxidized Rhi:	zospheres on Livir	ng Roots (C3) — C	rayfish Burrows (C8)	
,			S.	aturation Visible on A	erial Imagery (C9)
Drift Deposits (B3)	Presence of I	Reduced Iron (C4)	S	tunted or Stressed Pla	ants (D1)
Algal Mat or Crust (B4)		Reduction in Tilled		eomorphic Position (
Iron Deposits (B5)	Thin Muck Su			hallow Aquitard (D3)	/
Inundation Visible on Aerial				licrotopographic Relie	of (D4)
Sparsely Vegetated Concave	· · ·	iii iii Keiiiai ks)		AC-Neutral Test (D5)	si (D4)
	Surface (B8)			AC-Neutral Test (D5)	_
Field Observations:					
Surface Water Present?	Yes No D	epth (inches):	1		
Water Table Present?	Yes No D	epth (inches):	0 Wetl	and Hydrology Preser	nt? Yes 🟒 No
Saturation Present?	Yes No D	epth (inches):	0		
(includes capillary fringe)					
					
Describe Recorded Data (Stream	n gauge, monitoring well, aerial p	notos, previous in	spections), if availa	oie:	
Remarks:					

				T			
<u>Tree Stratum</u> (Plot size:30 ft)		Dominant		Dominance Test worksh			
	% Cover	Species?	Status	Number of Dominant Sp	ecies That	2	(A)
1				Are OBL, FACW, or FAC:	+ Ci		
2				Total Number of Domina Across All Strata:	ant Species	2	(B)
3				Percent of Dominant Sp	osios That		
4				Are OBL, FACW, or FAC:	ecies mat	100	(A/B)
5				Prevalence Index worksh	noot:		
6				Total % Cover o		Multiply E	Dr.e.
7.	·			OBL species		$\frac{\text{Multiply E}}{\times 1} =$	
	0	= Total Cov	er	_ ·	50	-	50
Sapling/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
3.				- UPL species	0	x 5 =	0
				- Column Totals	50	(A)	50 (B)
4				Prevalence Inc	lex = B/A =	1	
5				Hydrophytic Vegetation	Indicators:		
6				1- Rapid Test for Hy		egetation	
7				2 - Dominance Test		egetation.	
	0	= Total Cov	er	✓ 3 - Prevalence Inde			
Herb Stratum (Plot size:5 ft)				4 - Morphological A		(Drovido c	unnorting
1. Eleocharis palustris	30	Yes	OBL	data in Remarks or on a			supporting
2. <i>Typha latifolia</i>	20	Yes	OBL	Problematic Hydro			olain)
3.				-			
4.				Indicators of hydric soil present, unless disturbe		, ,	y must be
5.				3-		Hauc	
6.				Definitions of Vegetation			
				Tree – Woody plants 3 in			liameter at
7				breast height (DBH), reg			
8				Sapling/shrub - Woody			BH and
9				greater than or equal to			
10				Herb – All herbaceous (r	-		ardless of
11				size, and woody plants le			00.66
12				Woody vines – All woody	vines great	er than 3.2	28 π in
	50	= Total Cov	er	height.			
Woody Vine Stratum (Plot size:30 ft)		=		Hydrophytic Vegetation	Present? \	∕es <u> </u>	0
1.							
2.				•			
3.				•			
4.				•			
*·	0	- Total Cov	or	=			
		= Total Cov	er				
Remarks: (Include photo numbers here or on a separat	e sheet.)						

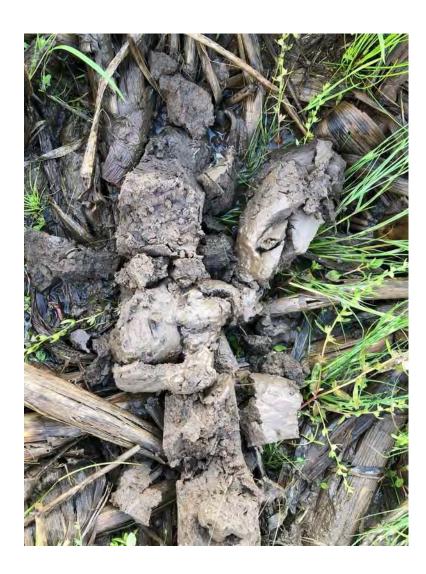
Profile Desc Depth	ription: (Describe to Matrix	o the d	epth needed to o			indicato	r or confirm the al	bsence	of indicators.)
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture		Remarks
0 - 12	10YR 3/2	92	7.5YR 4/6	8	С	M	Silty Clay		
				· <u> </u>		_			
				· _					
		. — .		- —					
				_		_			
				-					
				_		_			
	oncentration, D = [Depletio	on, RM = Reduced	d Mat	rix, MS =	Masked	Sand Grains. ² Lo		: PL = Pore Lining, M = Matrix.
Hydric Soil								Indica	tors for Problematic Hydric Soils ³ :
Histosol Histic Ep	(A1) pipedon (A2)		Polyvalue Be Thin Dark Su				R, MLRA 149B) A 149B)		cm Muck (A10) (LRR K, L, MLRA 149B) past Prairie Redox (A16) (LRR K, L, R)
Black Hi	` '		Loamy Muck	-		(LRR K,	L)		cm Mucky Peat or Peat (S3) (LRR K, L, R)
, .	n Sulfide (A4)		Loamy Gleye						ark Surface (S7) (LRR K, L)
	d Layers (A5)		Depleted Ma						olyvalue Below Surface (S8) (LRR K, L)
	d Below Dark Surfa	ce (A11						Th	nin Dark Surface (S9) (LRR K, L)
	rk Surface (A12)		Depleted Da)			on-Manganese Masses (F12) (LRR K, L, R)
,	lucky Mineral (S1)		Redox Depre	ioiszs	1S (F8)			Pi	edmont Floodplain Soils (F19) (MLRA 149B)
-	leyed Matrix (S4)								esic Spodic (TA6) (MLRA 144A, 145, 149B)
-	edox (S5)								ed Parent Material (F21)
Stripped	l Matrix (S6)								ery Shallow Dark Surface (TF12)
Dark Su	rface (S7) (LRR R, M	LRA 14	9B)						ther (Explain in Remarks)
	of hydrophytic vege	etation	and wetland hyd	rolog	y must b	e preser	nt, unless disturbe	d or pr	oblematic.
	ayer (if observed):								
	Type:		Compaction	-		Hydric	: Soil Present?		Yes No
	Depth (inches):		12						
Remarks:									

Hydrology Photos



Vegetation Photos





Project/Site: Trelina		City/County: W	aterloo, Seneca	Sampling Date:_	2019-June-26			
Applicant/Owner: NextEra			State: NY	Sampling Point: W	/-NWJ-18; UPL-1			
Investigator(s): Nick DeJohn, N	ate Jones		Section, Township,	Range:				
Landform (hillslope, terrace, etc.)	: Agricultui	ral Field	Local relief (concave, conv	vex, none): Flat	Slope (%): 0-1			
Subregion (LRR or MLRA):	RR L		Lat: 42.892865776	1 Long: -76.9288441167	Datum: WGS84			
Soil Map Unit Name: Claveracl	k loamy fine sar	nd, 2 to 6 percent slo	pes	NWI classifica	ation:			
Are climatic/hydrologic condition	s on the site typ	oical for this time of	year? Yes No	(If no, explain in Remark	s.)			
Are Vegetation _ 🗸 , Soil ,	or Hydrolog	y significantly		al Circumstances" present?	Yes ✓ No			
Are Vegetation, Soil,		y naturally pro		explain any answers in Rema	rks.)			
SUMMARY OF FINDINGS – A	ttach site ma	n showing samn	ling point locations trai	nsects important feature	os etc			
SOMMAN OF THE BUILDINGS - A	ttacii site iila	ip showing samp	ing point locations, trai	isects, important reature	3, 810.			
Hydrophytic Vegetation Present	? Ye	es No / _	ļ					
Hydric Soil Present?	Ye	es No _	Is the Sampled Area withi	n a Wetland?	Yes No			
Wetland Hydrology Present?	Ye	es No _	If yes, optional Wetland S	ite ID:				
Remarks: (Explain alternative pro								
Remarks. (Explain alternative pro	ocedures riere d	л пта зерагате геро	ii ()					
TRC covertype is UPL. Circumsta	nces are not no	rmal due to agricult	ural activities. Wetter than a	verage vear				
				8-)				
HYDROLOGY								
Wetland Hydrology Indicators:								
Primary Indicators (minimum of	one is required	; check all that apply	Δ	Secondary Indicators (minim	um of two required)			
Surface Water (A1)		Water-Stained L	eaves (RQ)	Surface Soil Cracks (B6)				
High Water Table (A2)		Aquatic Fauna (I		Drainage Patterns (B10)				
Saturation (A3)		Marl Deposits (E		Moss Trim Lines (B16)				
Water Marks (B1)		Hydrogen Sulfid		(C2)				
Sediment Deposits (B2)			pheres on Living Roots (C3)	6 6 1 5 (66)				
Sediment Deposits (B2)		Oxidized Kilizos	prieres on Living Roots (CS)	Saturation Visible on Aeri	ial Imagery (C9)			
Drift Deposits (B3)		Presence of Red	luced Iron (C4)	Stunted or Stressed Plan				
Algal Mat or Crust (B4)			uction in Tilled Soils (C6)	Geomorphic Position (D2				
Iron Deposits (B5)		Thin Muck Surfa		Shallow Aquitard (D3))			
Inundation Visible on Aerial I	magany (P7)		` '	•	'D4)			
	0, 1	Other (Explain in	n Remarks)	Microtopographic Relief (.04)			
Sparsely Vegetated Concave	Surface (B8)			FAC-Neutral Test (D5)				
Field Observations:								
Surface Water Present?	Yes N	o 🟒 Dept	h (inches):	_				
Water Table Present?	Yes N	o 🟒 Dept	h (inches):	Wetland Hydrology Present?	Yes No			
Saturation Present?	Yes N		h (inches):	-				
	1651	о <u>т</u> Берг		-				
(includes capillary fringe)								
Describe Recorded Data (stream	gauge, monito	ring well, aerial phot	tos, previous inspections), if	available:				
Remarks:								

	Ahsolute	Dominant	Indicator	Dominance Test worksheet:		
<u>Tree Stratum</u> (Plot size: <u>30 ft</u>)		Species?	Status	Number of Dominant Species Tha	ſ	
1.				Are OBL, FACW, or FAC:	0	(A)
2.				Total Number of Dominant Specie	s _	
				Across All Strata:	2	(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	By:
7				OBL species 0	x 1 =	0
	0	_= Total Cove	er	FACW species 0	x 2 =	0
Sapling/Shrub Stratum (Plot size: 15 ft)				FAC species 0	x 3 =	0
1				FACU species 65	x 4 =	260
2				UPL species 5	x 5 =	25
3				Column Totals 70	_ ^3 - (A)	285 (B)
4.				Prevalence Index = B/A =	- ' ' -	263 (B)
5.						 -
6.				Hydrophytic Vegetation Indicators		
7.	_			1- Rapid Test for Hydrophytic	Vegetation	ו
		= Total Cove	er	2 - Dominance Test is > 50%		
Herb Stratum (Plot size: <u>5 ft</u>)		-		3 - Prevalence Index is ≤ 3.01		
1. Trifolium repens	45	Yes	FACU	4 - Morphological Adaptation		supporting
Trifolium pratense	20	Yes	FACU	data in Remarks or on a separate		
3. Asclepias syriaca		No No	UPL	Problematic Hydrophytic Veg		
			OFL	¹Indicators of hydric soil and wetla		gy must be
4				present, unless disturbed or probl	ematic	_
5.				Definitions of Vegetation Strata:		
6				Tree – Woody plants 3 in. (7.6 cm)		diameter at
7				breast height (DBH), regardless of	_	
8				Sapling/shrub – Woody plants less		DBH and
9.				greater than or equal to 3.28 ft (1		
10				Herb – All herbaceous (non-wood)		gardless of
11				size, and woody plants less than 3		20.6
12				Woody vines – All woody vines gre	ater than 3	3.28 π in
	70	= Total Cove	er	height.		_
Woody Vine Stratum (Plot size: 30 ft)		=		Hydrophytic Vegetation Present?	Yes 1	No oN
1.						
2.						
3.	_					
4.				•		
		= Total Cove	r	•		
Remarks: (Include photo numbers here or on a separ	ate sheet.)					

Depth Matrix	•		dicator or confirm the al	osence of indicators.)
		x Features		
(inches) Color (moist)	% Color (moist)	% Type¹	Loc ² Texture	Remarks
0 - 8 10YR 4/3	100		Silt Loam	
-				
· · · · · · · · · · · · · · · · · · ·				
1Type C = Consentuation D = 1	Dominiam DM - Doduces	- Naturius NAC - NA	land Cond Coning 21	anation DI - Dave Lining M - Matrix
Type: C = Concentration, D = I	Depletion, RM = Reduce	a Matrix, MS = M	asked Sand Grains. *Lo	ocation: PL = Pore Lining, M = Matrix.
Hydric Soil Indicators:			(I DD D A (I DA (I 40D)	Indicators for Problematic Hydric Soils ³ :
Histosol (A1)		(LRR R, MLRA 149B)	2 cm Muck (A10) (LRR K, L, MLRA 149B)	
Histic Epipedon (A2)		urface (S9) (LRR F xy Mineral (F1) (L		Coast Prairie Redox (A16) (LRR K, L, R)
Black Histic (A3) Hydrogen Sulfide (A4)		ed Matrix (F2)	KK N, L)	5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
Stratified Layers (A5)	Depleted Ma			Dark Surface (S7) (LRR K, L)
Depleted Below Dark Surfa				Polyvalue Below Surface (S8) (LRR K, L)
Thick Dark Surface (A12)	Depleted Da		Thin Dark Surface (S9) (LRR K, L)	
Sandy Mucky Mineral (S1)	Redox Depre			Iron-Manganese Masses (F12) (LRR K, L, R)
Sandy Gleyed Matrix (S4)	Nedex 2 ep.			Piedmont Floodplain Soils (F19) (MLRA 149B)
Sandy Redox (S5)				Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
Stripped Matrix (S6)				Red Parent Material (F21)
Dark Surface (S7) (LRR R, N	II DA 140D)			Very Shallow Dark Surface (TF12)
Dark Surface (37) (LKK K, IV	ILKA 1490)			Other (Explain in Remarks)
³ Indicators of hydrophytic veg	etation and wetland hyd	rology must be ျ	oresent, unless disturbe	d or problematic.
Restrictive Layer (if observed):				
Type:	Compaction	_	Hydric Soil Present?	Yes No
Depth (inches):	8			

Vegetation Photos





Applicant/Owner: NextEra Investigator(s): Nick DeJohn, Nate Landform (hillslope, terrace, etc.): Subregion (LRR or MLRA): LRR Soil Man Linit Name: Schobarie si			Sampling Date	
Landform (hillslope, terrace, etc.): Subregion (LRR or MLRA): LRR		State: NY	Sampling Point:	W-NWJ-19; PEM-1
Subregion (LRR or MLRA): LRR	Jones	Section, Township,	Range:	
	Depression	Local relief (concave, conv	ex, none): Concave	Slope (%): 0-1
Soil Man Unit Name: Schoharie si	L	Lat: 42.892150464	Long: -76.9266676717	Datum: WGS84
Son wap offic ranic.	ilty clay loam, 2 to 6 percen	t slopes	NWI classifi	cation:
Are climatic/hydrologic conditions o	n the site typical for this tin	ne of year? Yes No	✓ (If no, explain in Remar	rks.)
Are Vegetation, Soil,	or Hydrology signific		Il Circumstances" present?	Yes No
Are Vegetation, Soil,	or Hydrology natural		explain any answers in Rem	narks.)
SUMMARY OF FINDINGS – Atta	ach site man showing s	ampling point locations tran	sects important featur	res etc
SOMMANT OF THE BINGS - ALL	- Ich site map showing s	diffiling point locations, trail	sects, important reatur	163, 616.
Hydrophytic Vegetation Present?	Yes 🟒 No	_ [
Hydric Soil Present?	Yes 🟒 No	_ Is the Sampled Area within	n a Wetland?	Yes/_ No
Wetland Hydrology Present?	Yes No	If yes, optional Wetland Si	te ID:	W-NWJ-19
Remarks: (Explain alternative proce				
Remarks. (Explain alternative proce	dures nere or in a separate	reporty		
TRC covertype is PEM. Wetter than	average vear			
The covertype is I Livi. Wetter than	average year			
HYDROLOGY				
Wetland Hydrology Indicators:				
Wetland Hydrology Indicators:	a ta assessionado alorado albada as		C d 1 di t (i i-	
Primary Indicators (minimum of on	e is required; check all that	apply)	Secondary Indicators (mini	•
<u></u> Surface Water (A1)	Water-Sta	ned Leaves (B9)	Surface Soil Cracks (B6)	
<u></u> High Water Table (A2)	Aquatic Fa	una (B13)	Drainage Patterns (B10))
✓ Saturation (A3)	Marl Depo	sits (B15)	Moss Trim Lines (B16)	
Water Marks (B1)	Hydrogen	Sulfide Odor (C1)	Dry-Season Water Table	e (C2)
Sediment Deposits (B2)	Oxidized F	thizospheres on Living Roots (C3)	Crayfish Burrows (C8)	
			Saturation Visible on Ae	rial Imagery (C9)
	Presence	of Reduced Iron (C4)	Stunted or Stressed Pla	mar magery (cs)
Drift Deposits (B3)	Pacant Iro	n Reduction in Tilled Soils (C6)	Geomorphic Position (D	
Drift Deposits (B3) Algal Mat or Crust (B4)				nts (D1)
•		Surface (C7)	Shallow Aquitard (D3)	nts (D1)
Algal Mat or Crust (B4)	Thin Muck	Surface (C7) lain in Remarks)		nts (D1) 02)
Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Ima	Thin Muck gery (B7) Other (Exp		Microtopographic Relie	nts (D1) 02)
Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Ima Sparsely Vegetated Concave Sur	Thin Muck gery (B7) Other (Exp			nts (D1) 02)
Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Ima Sparsely Vegetated Concave Sui Field Observations:	Thin Muck gery (B7) Other (Exp rface (B8)	lain in Remarks)	Microtopographic Relie	nts (D1) 02)
Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Ima Sparsely Vegetated Concave Sur Field Observations: Surface Water Present?	Thin Muck gery (B7) Other (Exp face (B8)	Depth (inches): 2	Microtopographic Reliei FAC-Neutral Test (D5)	nts (D1))2) f (D4)
Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Ima Sparsely Vegetated Concave Sur Field Observations: Surface Water Present? Water Table Present?	Thin Muck gery (B7) Other (Exp face (B8) Yes No Yes No	Depth (inches): 2 Depth (inches): 1	Microtopographic Relie	nts (D1))2) f (D4)
Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Ima Sparsely Vegetated Concave Sur Field Observations: Surface Water Present? Water Table Present?	Thin Muck gery (B7) Other (Exp face (B8)	Depth (inches): 2	Microtopographic Reliei FAC-Neutral Test (D5)	nts (D1))2) f (D4)
Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Ima Sparsely Vegetated Concave Sur	Thin Muck gery (B7) Other (Exp face (B8) Yes No Yes No	Depth (inches): 2 Depth (inches): 1	Microtopographic Reliei FAC-Neutral Test (D5)	nts (D1))2) f (D4)
Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Ima Sparsely Vegetated Concave Sui Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe)	Thin Muck gery (B7) Other (Exp face (B8) Yes No Yes No Yes No	Depth (inches): 2 Depth (inches): 1 Depth (inches): 1	Microtopographic Reliei FAC-Neutral Test (D5) Wetland Hydrology Presen	nts (D1))2) f (D4)
Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Ima Sparsely Vegetated Concave Suifield Observations: Surface Water Present? Water Table Present? Saturation Present?	Thin Muck gery (B7) Other (Exp face (B8) Yes No Yes No Yes No	Depth (inches): 2 Depth (inches): 1 Depth (inches): 1	Microtopographic Reliei FAC-Neutral Test (D5) Wetland Hydrology Presen	nts (D1))2) f (D4)
Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Ima Sparsely Vegetated Concave Sui Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe)	Thin Muck gery (B7) Other (Exp face (B8) Yes No Yes No Yes No	Depth (inches): 2 Depth (inches): 1 Depth (inches): 1	Microtopographic Reliei FAC-Neutral Test (D5) Wetland Hydrology Presen	nts (D1))2) f (D4)
Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Ima Sparsely Vegetated Concave Sur Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe)	Thin Muck gery (B7) Other (Exp face (B8) Yes No Yes No Yes No	Depth (inches): 2 Depth (inches): 1 Depth (inches): 1	Microtopographic Reliei FAC-Neutral Test (D5) Wetland Hydrology Presen	nts (D1))2) f (D4)
Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Ima Sparsely Vegetated Concave Sur Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe)	Thin Muck gery (B7) Other (Exp face (B8) Yes No Yes No Yes No	Depth (inches): 2 Depth (inches): 1 Depth (inches): 1	Microtopographic Reliei FAC-Neutral Test (D5) Wetland Hydrology Presen	nts (D1))2) f (D4)
Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Ima Sparsely Vegetated Concave Surfield Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (stream ga	Thin Muck gery (B7) Other (Exp face (B8) Yes No Yes No Yes No	Depth (inches): 2 Depth (inches): 1 Depth (inches): 1	Microtopographic Reliei FAC-Neutral Test (D5) Wetland Hydrology Presen	nts (D1))2) f (D4)
Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Ima Sparsely Vegetated Concave Sur Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (stream ga	Thin Muck gery (B7) Other (Exp face (B8) Yes No Yes No Yes No	Depth (inches): 2 Depth (inches): 1 Depth (inches): 1	Microtopographic Reliei FAC-Neutral Test (D5) Wetland Hydrology Presen	nts (D1))2) f (D4)
Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Ima Sparsely Vegetated Concave Sur Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (stream ga	Thin Muck gery (B7) Other (Exp face (B8) Yes No Yes No Yes No	Depth (inches): 2 Depth (inches): 1 Depth (inches): 1	Microtopographic Reliei FAC-Neutral Test (D5) Wetland Hydrology Presen	nts (D1))2) f (D4)
Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Ima Sparsely Vegetated Concave Surfield Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (stream ga	Thin Muck gery (B7) Other (Exp face (B8) Yes No Yes No Yes No	Depth (inches): 2 Depth (inches): 1 Depth (inches): 1	Microtopographic Reliei FAC-Neutral Test (D5) Wetland Hydrology Presen	nts (D1))2) f (D4)
Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Ima Sparsely Vegetated Concave Sur Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (stream ga	Thin Muck gery (B7) Other (Exp face (B8) Yes No Yes No Yes No	Depth (inches): 2 Depth (inches): 1 Depth (inches): 1	Microtopographic Reliei FAC-Neutral Test (D5) Wetland Hydrology Presen	nts (D1))2) f (D4)
Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Ima Sparsely Vegetated Concave Sur Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (stream ga	Thin Muck gery (B7) Other (Exp face (B8) Yes No Yes No Yes No	Depth (inches): 2 Depth (inches): 1 Depth (inches): 1	Microtopographic Reliei FAC-Neutral Test (D5) Wetland Hydrology Presen	nts (D1))2) f (D4)
Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Ima Sparsely Vegetated Concave Sur Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (stream ga	Thin Muck gery (B7) Other (Exp face (B8) Yes No Yes No Yes No	Depth (inches): 2 Depth (inches): 1 Depth (inches): 1	Microtopographic Reliei FAC-Neutral Test (D5) Wetland Hydrology Presen	nts (D1))2) f (D4)

·				Di	-4-		
<u>Tree Stratum</u> (Plot size: <u>30 ft</u>)		Dominant		Dominance Test workshe			
	% Cover	Species?	Status	Number of Dominant Spe Are OBL, FACW, or FAC:	ecies mai	2	(A)
1				Total Number of Domina	nt Charias		
2				Across All Strata:	iit species	2	(B)
3.				Percent of Dominant Spe	cies That		
4				Are OBL, FACW, or FAC:	cies mat	100	(A/B)
5				Prevalence Index worksh	oot:		
6.				Total % Cover of		Multiply F	D. 11
7.					_	Multiply E	-
		= Total Cove	r	OBL species	60	x 1 =	60
Sapling/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
3.				UPL species	0	x 5 =	0
-				Column Totals	60	(A)	60 (B)
4.				Prevalence Inde	ex = B/A = .	1	
5				Hydrophytic Vegetation II	ndicators:		
6				1- Rapid Test for Hy		egetation	
7				✓ 2 - Dominance Test		-801411011	
	0	= Total Cove	r	✓ 3 - Prevalence Index			
Herb Stratum (Plot size: <u>5 ft</u>)				4 - Morphological Ad		(Provide s	unnorting
1. <i>Eleocharis palustris</i>	40	Yes	OBL	data in Remarks or on a s			supporting
2. Alisma triviale	20	Yes	OBL	Problematic Hydrop			nlain)
3.				¹Indicators of hydric soil a			
4.				present, unless disturbed		-	y masc be
5.				Definitions of Vegetation	-	nacic	_
6.						mara in d	liameter at
7.				Tree – Woody plants 3 in. breast height (DBH), rega			nameter at
8.				Sapling/shrub – Woody p			PU and
				greater than or equal to 3			DIT allu
9.				Herb – All herbaceous (no			ardless of
10				size, and woody plants le			aruless or
11				Woody vines – All woody			28 ft in
12				height.	viries great	er triair 5.2	2011111
	60	= Total Cove	r			, , , , , ,	
Woody Vine Stratum (Plot size: 30 ft)				Hydrophytic Vegetation	Present? Y	es 🟒 N	0
1							
2.							
3.							
4.							
		= Total Cove	r				
		-					
Remarks: (Include photo numbers here or on a sepa	rate sheet.)						

Profile Desc Depth	ription: (Describe to Matrix	o the d	epth needed to o			indicato	r or confirm the a	bsence	of indicators.)
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture		Remarks
0 - 9	10YR 3/1	96	10YR 5/8	5	C	M	Silty Clay		
		_		_		_			
				- —					
		_							
		_							
				- —			-		
		_		_		_			
1Type: C = C	oncentration, D = E	 Depletion	on, RM = Reduced	d Mat	rix, MS =	Masked	Sand Grains. ² L	ocation	: PL = Pore Lining, M = Matrix.
Hydric Soil	ndicators:							Indica	ators for Problematic Hydric Soils ³ :
Histosol	` '						R, MLRA 149B)	2	cm Muck (A10) (LRR K, L, MLRA 149B)
Histic Ep Black Hi	oipedon (A2) stic (A3)	Thin Dark Surface (S9) (LRR R, MLRA 149B) Loamy Mucky Mineral (F1) (LRR K, L)							past Prairie Redox (A16) (LRR K, L, R)
	en Sulfide (A4)		Loamy Gleye	-		(=	-,		cm Mucky Peat or Peat (S3) (LRR K, L, R)
Stratifie	d Layers (A5)		Depleted Ma						ark Surface (S7) (LRR K, L) olyvalue Below Surface (S8) (LRR K, L)
'	d Below Dark Surfa	ce (A11							nin Dark Surface (S9) (LRR K, L)
	ark Surface (A12)		Depleted Da)			on-Manganese Masses (F12) (LRR K, L, R)
	lucky Mineral (S1)		Redox Depre	essior	ns (F8)				edmont Floodplain Soils (F19) (MLRA 149B)
-	ileyed Matrix (S4)							M	esic Spodic (TA6) (MLRA 144A, 145, 149B)
-	edox (S5)							Re	ed Parent Material (F21)
	Matrix (S6)		0.5%					Ve	ery Shallow Dark Surface (TF12)
Dark Su	rface (S7) (LRR R, M	LRA 14	98)					0	ther (Explain in Remarks)
	of hydrophytic vege	etation	and wetland hyd	rolog	y must b	e preser	nt, unless disturbe	ed or pr	oblematic.
	ayer (if observed):		Clay			Lhadria	Coil Drocont?		Voc. / No.
	Type:		Clay 9	-		Hyaric	: Soil Present?		Yes No
Remarks:	Depth (inches):		9						

Hydrology Photos



Vegetation Photos





Project/Site: Trelina	City/County: Wat	erloo, Seneca	Sampling Date: 2019-June-26			
Applicant/Owner: NextEra		State: NY	Sampling Point: W-NV	VJ-19; UPL-1		
Investigator(s): Nick DeJohn, N	ate Jones	Section, Township,	Range:			
Landform (hillslope, terrace, etc.)	: Agricultural Field	Local relief (concave, conv	ex, none): Flat	Slope (%): 0-1		
Subregion (LRR or MLRA):	RR L	Lat: 42.892264961	3 Long: -76.9269156922	Datum: WGS84		
Soil Map Unit Name: Schohari	e silty clay loam, 2 to 6 percent slopes	5	NWI classification	1:		
Are climatic/hydrologic condition	s on the site typical for this time of ye	ear? Yes No	(If no, explain in Remarks.)			
Are Vegetation <u></u> ✓, Soil,	or Hydrology significantly dis			⁄es <u> </u>		
Are Vegetation, Soil,	or Hydrology naturally probl	lematic? (If needed,	explain any answers in Remarks.)			
SUMMARY OF FINDINGS – A	ttach site map showing sampli	ng point locations, trar	nsects, important features, e	tc.		
Hydrophytic Vegetation Present?	? Yes No _ _/ _					
Hydric Soil Present?	Yes No _ _ _	Is the Sampled Area withi	n a Wetland? Yes	No⁄_		
		<u>'</u>				
Wetland Hydrology Present?	Yes No _ _∠	If yes, optional Wetland Si	ite ID:			
Remarks: (Explain alternative pro	ocedures here or in a separate report	:)				
TRC covertype is UPL. Circumsta	nces are not normal due to agricultur	ral activities, Recent rain				
INDDOLOCY						
HYDROLOGY						
Wetland Hydrology Indicators:						
Primary Indicators (minimum of	one is required; check all that apply)		Secondary Indicators (minimum	of two required)		
Surface Water (A1)	Water-Stained Lea	aves (B9)	Surface Soil Cracks (B6)			
High Water Table (A2)	Aquatic Fauna (B1		Drainage Patterns (B10)			
Saturation (A3)	Marl Deposits (B1		Moss Trim Lines (B16)			
Water Marks (B1)	Hydrogen Sulfide		Dry-Season Water Table (C2)			
Sediment Deposits (B2)	Oxidized Rhizosph	heres on Living Roots (C3)	Crayfish Burrows (C8)	(60)		
		*** **********************************	Saturation Visible on Aerial In			
Drift Deposits (B3)	Presence of Redu		Stunted or Stressed Plants (D	1)		
Algal Mat or Crust (B4)		ction in Tilled Soils (C6)	Geomorphic Position (D2)			
Iron Deposits (B5)	Thin Muck Surface		Shallow Aquitard (D3)			
 Inundation Visible on Aerial I Sparsely Vegetated Concave		Remarks)	 Microtopographic Relief (D4) FAC-Neutral Test (D5)			
Field Observations:	Surface (Bo)		FAC-Neutral Test (D3)			
Surface Water Present?	Vos No / Donth	(inches):				
	·	(inches):				
Water Table Present?	•	(inches):	Wetland Hydrology Present?	Yes No / _		
Saturation Present?	Yes No Depth	(inches):				
(includes capillary fringe)						
Describe Recorded Data (stream	gauge, monitoring well, aerial photos	s, previous inspections), if a	available:	·		
Remarks:						
nemarks.						

	Absolute	Dominant	Indicator	Dominance Test worksheet:		
Tree Stratum (Plot size: 30 ft)		Species?	Status	Number of Dominant Species Th	at o	(4)
1.				Are OBL, FACW, or FAC:	0	(A)
2.				Total Number of Dominant Spec	es 3	
3.				Across All Strata:	2	(B)
				Percent of Dominant Species Th	at 0	(A (D)
4.				Are OBL, FACW, or FAC:		(A/B)
5.				Prevalence Index worksheet:		
6.				Total % Cover of:	Multiply	By:
7				OBL species 0	x 1 =	0
	0	_= Total Cove	er	FACW species 0	x 2 =	0
Sapling/Shrub Stratum (Plot size:15 ft)				FAC species 0	x 3 =	0
1				FACU species 20	x 4 =	80
2				UPL species 0	^ x 5 =	0
3.						
4.				Column Totals 20	(A)	80 (B)
5.				Prevalence Index = B/A	<u> </u>	
6.				Hydrophytic Vegetation Indicato	s:	
-				1- Rapid Test for Hydrophy	ic Vegetation	1
7				2 - Dominance Test is > 50%		
	0	= Total Cove	er	3 - Prevalence Index is ≤ 3.	ე1	
Herb Stratum (Plot size: <u>5 ft</u>)				4 - Morphological Adaptatio	ns¹ (Provide	supporting
1. Ambrosia artemisiifolia	15	Yes	FACU	data in Remarks or on a separate		11 0
2. Erigeron annuus	5	Yes	FACU	Problematic Hydrophytic V		(plain)
3.				¹Indicators of hydric soil and wet	-	
4.				present, unless disturbed or pro	-	8)
5.				Definitions of Vegetation Strata:	3101114410	
6.				Tree – Woody plants 3 in. (7.6 cm) or more in	diameter at
7.				breast height (DBH), regardless		ulailletei at
				·		DDLL and
8.				Sapling/shrub – Woody plants le greater than or equal to 3.28 ft (Jen and
9				Herb – All herbaceous (non-woo		
10				size, and woody plants less than		gardiess of
11						20 ft :
12				Woody vines – All woody vines g height.	eater than 5	.20 11 111
	20	= Total Cove	er			-
Woody Vine Stratum (Plot size: 30 ft)				Hydrophytic Vegetation Present	? Yes N	No <u> </u>
1.						
2.						
3.						
4.				•		
4.		= Total Cove				
	0	_ TOLAT COVE	:r			
Remarks: (Include photo numbers here or on a separa	te sheet.)					

Denate Manufacture	to the deptr				ndicator	or confirm the ab	osence of indicators.)	
Depth Matrix		Redox			12	T	Demonto	
(inches) Color (moist)		olor (moist)	<u>%</u>	Type ¹	Loc ²	Texture	Remarks	
0 - 10 10YR 4/3	100		_			Silt Loam		
			_					
			_					
			_					
-								
			_					
			_					
· · · · · · · · · · · · · · · · · · ·			_					
			_					
ITypou C = Consontration D =	Daplation D	IM = Doducod		iv MC =	Maskad	Cand Crains 21 s	ecation DI - Dara Lining M - Matrix	
Type: C = Concentration, D =	Depietion, R	ivi – Reduced	Mati	IX, IVIS –	Maskeu	Sand Grains. *LC	ocation: PL = Pore Lining, M = Matrix.	
Hydric Soil Indicators:			_		0. 4.55.5		Indicators for Problematic Hydric Soils ³ :	
Histosol (A1)	Histosol (A1) Polyvalue Below Surface (S8) (LRR R, MLRA Histic Epipedon (A2) Thin Dark Surface (S9) (LRR R, MLRA 149B)					2 cm Muck (A10) (LRR K, L, MLRA 149B)		
		Thin Dark Surface (S9) (LRR R, MLRA 149B) Loamy Mucky Mineral (F1) (LRR K, L)					Coast Prairie Redox (A16) (LRR K, L, R)	
Black Histic (A3) Hydrogen Sulfide (A4)		Loamy Gleyed Matrix (F2)					5 cm Mucky Peat or Peat (S3) (LRR K, L, R)	
Stratified Layers (A5)		Depleted Mat					Dark Surface (S7) (LRR K, L)	
							Polyvalue Below Surface (S8) (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 Depre					Iron-Manganese Masses (F12) (LRR K, L, R)	
Sandy Gleyed Matrix (S4)		caox Bap. c.		. (. 0)			Piedmont Floodplain Soils (F19) (MLRA 149B)	
Sandy Redox (S5)							Mesic Spodic (TA6) (MLRA 144A, 145, 149B)	
Stripped Matrix (S6)							Red Parent Material (F21)	
Stripped Matrix (36) Dark Surface (S7) (LRR R, N	ALDA 140D\						Very Shallow Dark Surface (TF12)	
Dark Surface (37) (LKK K, N	/ILKA 143D)						Other (Explain in Remarks)	
Indicators of hydrophytic veg	etation and	wetland hydr	ology	must be	e presen	t, unless disturbe	d or problematic.	
Restrictive Layer (if observed):	;							
Type:	Com	paction			Hydric	Soil Present?	Yes No	
Depth (inches):		10						

Vegetation Photos





Applicant/Owner: NextEra	City/County: Wate	erloo, Seneca	Sampling Date: 2019-June-26		
Investigator(s). Nick Dalaha Nata lanes		State: NY	Sampling Point: V	/-NWJ-20; PEM-1	
Investigator(s): Nick DeJohn, Nate Jones		Section, Township,	Range:		
Landform (hillslope, terrace, etc.): Dep	ression	Local relief (concave, conv	ex, none): Concave	Slope (%): 0-1	
Subregion (LRR or MLRA): LRR L		Lat: 42.892351462	5 Long: -76.9268885349	Datum: WGS84	
Soil Map Unit Name: Schoharie silt loam,	2 to 6 percent slopes		NWI classifica	ntion:	
Are climatic/hydrologic conditions on the sit	te typical for this time of year	ar? Yes No	_ ∠ (If no, explain in Remark	s.)	
	rology significantly dis		al Circumstances" present?	Yes No	
Are Vegetation, Soil, or Hyd	rology naturally probl	ematic? (If needed,	explain any answers in Rema	rks.)	
SUMMARY OF FINDINGS – Attach site	e map showing samplir	ng point locations, trar	nsects, important feature	s, etc.	
Hydrophytic Vegetation Present?	Yes _ ✓ _ No				
Hydric Soil Present?	Yes No	Is the Sampled Area withi	n a Wetland?	⁄es∕_ No	
		·			
Wetland Hydrology Present?	Yes No	If yes, optional Wetland Si	te ID:	N-NWJ-20	
Remarks: (Explain alternative procedures h	ere or in a separate report)				
TRC covertype is PEM. Wetter than average	year :				
HYDROLOGY					
Wetland Hydrology Indicators:					
Primary Indicators (minimum of one is requ	uired; check all that apply)		Secondary Indicators (minim	um of two required)	
∕ Surface Water (A1)	Water-Stained Lea	ives (B9)	Surface Soil Cracks (B6)		
∕ High Water Table (A2)	Aquatic Fauna (B1		Drainage Patterns (B10)		
✓ Saturation (A3)	Marl Deposits (B15		Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8)		
Water Marks (B1)	Hydrogen Sulfide				
Sediment Deposits (B2)	Oxidized Rhizosph	neres on Living Roots (C3)	Saturation Visible on Aeri	al Imagery (C9)	
Drift Deposits (B3)	Presence of Reduc	red Iron (C4)	Stunted or Stressed Plant		
Algal Mat or Crust (B4)		tion in Tilled Soils (C6)	Geomorphic Position (D2		
Iron Deposits (B5)	Thin Muck Surface		Shallow Aquitard (D3)		
Inundation Visible on Aerial Imagery (B	7) Other (Explain in R	Remarks)	Microtopographic Relief (D4)	
	3)		✓ FAC-Neutral Test (D5)		
Sparsely Vegetated Concave Surface (B					
Sparsely Vegetated Concave Surface (BS Field Observations:					
Field Observations:	No Depth	(inches): 1			
Field Observations: Surface Water Present? Yes	·	·	Wetland Hydrology Present?	Yes _ .∕ _ No	
Field Observations: Surface Water Present? Water Table Present? Yes	No Depth	(inches): 0	Wetland Hydrology Present?	Yes No	
Field Observations: Surface Water Present? Water Table Present? Yes Saturation Present? Yes	No Depth	·	Wetland Hydrology Present?	Yes _ _/ _ No	
Field Observations: Surface Water Present? Water Table Present? Saturation Present? Yes	No Depth Depth	(inches): 0 (inches): 0	, .	Yes _ / _ No	
Field Observations: Surface Water Present? Water Table Present? Yes Saturation Present? Yes	No Depth Depth	(inches): 0 (inches): 0	, .	Yes No	
Field Observations: Surface Water Present? Water Table Present? Saturation Present? Yes	No Depth Depth	(inches): 0 (inches): 0	, .	Yes No	
Field Observations: Surface Water Present? Water Table Present? Yes Saturation Present? Yes (includes capillary fringe) Describe Recorded Data (stream gauge, mo	No Depth Depth	(inches): 0 (inches): 0	, .	Yes No	
Field Observations: Surface Water Present? Water Table Present? Saturation Present? Yes	No Depth Depth	(inches): 0 (inches): 0	, .	Yes No	
Field Observations: Surface Water Present? Water Table Present? Yes Saturation Present? Yes (includes capillary fringe) Describe Recorded Data (stream gauge, mo	No Depth Depth	(inches): 0 (inches): 0	, .	Yes No	
Field Observations: Surface Water Present? Water Table Present? Yes Saturation Present? Yes (includes capillary fringe) Describe Recorded Data (stream gauge, mo	No Depth Depth	(inches): 0 (inches): 0	, .	Yes No	
Field Observations: Surface Water Present? Water Table Present? Yes Saturation Present? Yes (includes capillary fringe) Describe Recorded Data (stream gauge, mo	No Depth Depth	(inches): 0 (inches): 0	, .	Yes No	
Field Observations: Surface Water Present? Water Table Present? Yes Saturation Present? Yes (includes capillary fringe) Describe Recorded Data (stream gauge, mo	No Depth Depth	(inches): 0 (inches): 0	, .	Yes No	
Field Observations: Surface Water Present? Water Table Present? Yes Saturation Present? Yes (includes capillary fringe) Describe Recorded Data (stream gauge, mo	No Depth Depth	(inches): 0 (inches): 0	, .	Yes No	

Tree Stratum (Plot size: _ 30 ft _)	Absolute	Dominant	Indicator	Dominance Test worksheet:		
ince stratum (1 lot size	% Cover	Species?	Status	Number of Dominant Species That	4	(A)
1. Acer rubrum	30	Yes	FAC	Are OBL, FACW, or FAC:		
2.				Total Number of Dominant Species	4	(B)
3.				Across All Strata:		(B)
4.				Percent of Dominant Species That	100	(A/B)
5.				Are OBL, FACW, or FAC:		(A/B)
				Prevalence Index worksheet:		
6				Total % Cover of:	Multiply E	By:
7				OBL species 65	x 1 =	65
	30	= Total Cove	r	FACW species 0	x 2 =	0
Sapling/Shrub Stratum (Plot size: 15 ft)				FAC species 40	x 3 =	120
1. Rhamnus cathartica	10	Yes	FAC		_	
2.				FACU species 0	x 4 =	0
3.				UPL species 0	x 5 =	0
-				Column Totals 105	(A)	185 (B)
4.				Prevalence Index = B/A =	1.8	
5				Hydrophytic Vegetation Indicators:		
6				1- Rapid Test for Hydrophytic	/egetation	
7				✓ 2 - Dominance Test is >50%	regetation	
	10	= Total Cove	r			
Herb Stratum (Plot size: <u>5 ft</u>)		=		3 - Prevalence Index is ≤ 3.0¹	1 (5	
1. Scirpus atrovirens	45	Yes	OBL	4 - Morphological Adaptations		supporting
2. Carex vulpinoidea	20	Yes	OBL	data in Remarks or on a separate sh		
3.		163	OBL	Problematic Hydrophytic Vege		
				¹Indicators of hydric soil and wetlan		gy must be
4				present, unless disturbed or proble	matic	
5				Definitions of Vegetation Strata:		
6				Tree – Woody plants 3 in. (7.6 cm) o	r more in d	liameter at
7				breast height (DBH), regardless of h	eight.	
8.				Sapling/shrub - Woody plants less t	han 3 in. D	BH and
9.				greater than or equal to 3.28 ft (1 m	ı) tall.	
10.				Herb – All herbaceous (non-woody)	plants, reg	ardless of
				size, and woody plants less than 3.2	8 ft tall.	
11.				Woody vines – All woody vines grea	ter than 3.2	28 ft in
12				height.		
	65	_= Total Cove	r	Hydrophytic Vegetation Present?	Voc / N	0
Woody Vine Stratum (Plot size: 30 ft)				Trydrophyde vegetation i resent:	163 14	o
1						
2						
3.						
4.						
	0	= Total Cove	r	•		
Remarks: (Include photo numbers here or on a separa	ite sheet.)					

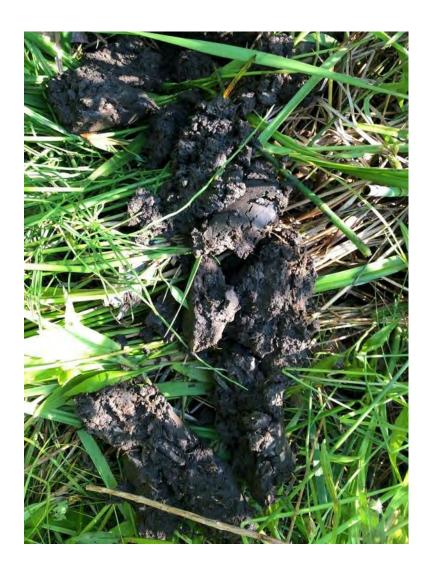
Type: C = Con Hydric Soil Ind Histosol (A Histic Epipe Black Histic Hydrogen S Stratified L Depleted B Thick Dark Sandy Muc	icators: 1) edon (A2) c (A3) Sulfide (A4) ayers (A5) selow Dark Surfa Surface (A12) cky Mineral (S1) ved Matrix (S4) ox (S5) latrix (S6)	•	on, RM = Reduce Polyvalue Barrin Dark Sarrin Dark Sarrin Dark Sarrin Dark Sarrin Dark Sarrin Depleted Marrin Depleted Dark Depleted Dark Redox Depr	elow urfac ky Mi ed M atrix Surfa	Surface (e (S9) (LR neral (F1 atrix (F2) (F3) ace (F6) urface (F	(S8) (LRR R, N RR R, MLRA 14) (LRR K, L)	1LRA 149B)	Remarks Docation: PL = Pore Lining, M = Matrix. Indicators for Problematic Hydric Soils³: 2 cm Muck (A10) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (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) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
Type: C = Con Hydric Soil Ind Histosol (A Histic Epipe Black Histic Hydrogen S Stratified L Depleted B Thick Dark Sandy Muc Sandy Gley Sandy Red Stripped M	centration, D = I icators: 1) edon (A2) c (A3) Sulfide (A4) ayers (A5) selow Dark Surfa Surface (A12) ky Mineral (S1) ved Matrix (S4) ox (S5) latrix (S6)	Depleti	on, RM = Reduce Polyvalue Book Thin Dark Sook Loamy Muco Loamy Gley Depleted Module		trix, MS = Surface (e (S9) (LR neral (F1 atrix (F2) (F3) ace (F6) urface (F)	= Masked Sai	nd Grains. ² Lo	Indicators for Problematic Hydric Soils³: 2 cm Muck (A10) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (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) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B)
Hydric Soil Ind Histosol (A Histic Epipe Black Histic Hydrogen S Stratified L Depleted B Thick Dark Sandy Muc Sandy Gley Sandy Red Stripped M	icators: 1) edon (A2) c (A3) Sulfide (A4) ayers (A5) selow Dark Surfa Surface (A12) cky Mineral (S1) ved Matrix (S4) ox (S5) latrix (S6)	•	Polyvalue Bower Standard Stand	elow urfac ky Mi ed M atrix Surfa	Surface (e (S9) (LR neral (F1 atrix (F2) (F3) ace (F6) urface (F	(S8) (LRR R, N RR R, MLRA 14) (LRR K, L)	1LRA 149B)	Indicators for Problematic Hydric Soils ³ : 2 cm Muck (A10) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (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) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B)
lydric Soil Ind Histosol (A Histic Epipe Black Histic Hydrogen S Stratified L Depleted B Thick Dark Sandy Muc Sandy Gley Stripped M	icators: 1) edon (A2) c (A3) Sulfide (A4) ayers (A5) selow Dark Surfa Surface (A12) cky Mineral (S1) ved Matrix (S4) ox (S5) latrix (S6)	•	Polyvalue Bower Standard Stand	elow urfac ky Mi ed M atrix Surfa	Surface (e (S9) (LR neral (F1 atrix (F2) (F3) ace (F6) urface (F	(S8) (LRR R, N RR R, MLRA 14) (LRR K, L)	1LRA 149B)	Indicators for Problematic Hydric Soils ³ : 2 cm Muck (A10) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (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) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B)
Hydric Soil Ind Histosol (A Histic Epipe Black Histic Hydrogen S Stratified L Depleted B Thick Dark Sandy Muc Sandy Gley Stripped M	icators: 1) edon (A2) c (A3) Sulfide (A4) ayers (A5) selow Dark Surfa Surface (A12) cky Mineral (S1) ved Matrix (S4) ox (S5) latrix (S6)	•	Polyvalue Bower Standard Stand	elow urfac ky Mi ed M atrix Surfa	Surface (e (S9) (LR neral (F1 atrix (F2) (F3) ace (F6) urface (F	(S8) (LRR R, N RR R, MLRA 14) (LRR K, L)	1LRA 149B)	Indicators for Problematic Hydric Soils ³ : 2 cm Muck (A10) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (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) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B)
Hydric Soil Ind Histosol (A Histic Epipe Black Histic Hydrogen S Stratified L Depleted B Thick Dark Sandy Muc Sandy Gley Sandy Red Stripped M	icators: 1) edon (A2) c (A3) Sulfide (A4) ayers (A5) selow Dark Surfa Surface (A12) cky Mineral (S1) ved Matrix (S4) ox (S5) latrix (S6)	•	Polyvalue Bower Standard Stand	elow urfac ky Mi ed M atrix Surfa	Surface (e (S9) (LR neral (F1 atrix (F2) (F3) ace (F6) urface (F	(S8) (LRR R, N RR R, MLRA 14) (LRR K, L)	1LRA 149B)	Indicators for Problematic Hydric Soils ³ : 2 cm Muck (A10) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (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) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B)
Hydric Soil Ind Histosol (A Histic Epipe Black Histic Hydrogen S Stratified L Depleted B Thick Dark Sandy Muc Sandy Gley Stripped M	icators: 1) edon (A2) c (A3) Sulfide (A4) ayers (A5) selow Dark Surfa Surface (A12) cky Mineral (S1) ved Matrix (S4) ox (S5) latrix (S6)	•	Polyvalue Bower Standard Stand	elow urfac ky Mi ed M atrix Surfa	Surface (e (S9) (LR neral (F1 atrix (F2) (F3) ace (F6) urface (F	(S8) (LRR R, N RR R, MLRA 14) (LRR K, L)	1LRA 149B)	Indicators for Problematic Hydric Soils ³ : 2 cm Muck (A10) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (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) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B)
Hydric Soil Ind Histosol (A Histic Epipe Black Histic Hydrogen S Stratified L Depleted B Thick Dark Sandy Muc Sandy Gley Stripped M	icators: 1) edon (A2) c (A3) Sulfide (A4) ayers (A5) selow Dark Surfa Surface (A12) cky Mineral (S1) ved Matrix (S4) ox (S5) latrix (S6)	•	Polyvalue Bower Standard Stand	elow urfac ky Mi ed M atrix Surfa	Surface (e (S9) (LR neral (F1 atrix (F2) (F3) ace (F6) urface (F	(S8) (LRR R, N RR R, MLRA 14) (LRR K, L)	1LRA 149B)	Indicators for Problematic Hydric Soils ³ : 2 cm Muck (A10) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (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) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B)
Hydric Soil Ind Histosol (A Histic Epipe Black Histic Hydrogen S Stratified L Depleted B Thick Dark Sandy Muc Sandy Gley Sandy Red Stripped M	icators: 1) edon (A2) c (A3) Sulfide (A4) ayers (A5) selow Dark Surfa Surface (A12) cky Mineral (S1) ved Matrix (S4) ox (S5) latrix (S6)	•	Polyvalue Bower Standard Stand	elow urfac ky Mi ed M atrix Surfa	Surface (e (S9) (LR neral (F1 atrix (F2) (F3) ace (F6) urface (F	(S8) (LRR R, N RR R, MLRA 14) (LRR K, L)	1LRA 149B)	Indicators for Problematic Hydric Soils ³ : 2 cm Muck (A10) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (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) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B)
Hydric Soil Ind Histosol (A Histic Epipe Black Histic Hydrogen S Stratified L Depleted B Thick Dark Sandy Muc Sandy Gley Sandy Red Stripped M	icators: 1) edon (A2) c (A3) Sulfide (A4) ayers (A5) selow Dark Surfa Surface (A12) cky Mineral (S1) ved Matrix (S4) ox (S5) latrix (S6)	•	Polyvalue Bower Standard Stand	elow urfac ky Mi ed M atrix Surfa	Surface (e (S9) (LR neral (F1 atrix (F2) (F3) ace (F6) urface (F	(S8) (LRR R, N RR R, MLRA 14) (LRR K, L)	1LRA 149B)	Indicators for Problematic Hydric Soils ³ : 2 cm Muck (A10) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (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) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B)
Hydric Soil Ind Histosol (A Histic Epipe Black Histic Hydrogen S Stratified L Depleted B Thick Dark Sandy Muc Sandy Gley Sandy Red Stripped M	icators: 1) edon (A2) c (A3) Sulfide (A4) ayers (A5) selow Dark Surfa Surface (A12) cky Mineral (S1) ved Matrix (S4) ox (S5) latrix (S6)	•	Polyvalue Bower Standard Stand	elow urfac ky Mi ed M atrix Surfa	Surface (e (S9) (LR neral (F1 atrix (F2) (F3) ace (F6) urface (F	(S8) (LRR R, N RR R, MLRA 14) (LRR K, L)	1LRA 149B)	Indicators for Problematic Hydric Soils ³ : 2 cm Muck (A10) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (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) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B)
Hydric Soil Ind Histosol (A Histic Epipe Black Histic Hydrogen S Stratified L Depleted B Thick Dark Sandy Muc Sandy Gley Stripped M	icators: 1) edon (A2) c (A3) Sulfide (A4) ayers (A5) selow Dark Surfa Surface (A12) cky Mineral (S1) ved Matrix (S4) ox (S5) latrix (S6)	•	Polyvalue Bower Standard Stand	elow urfac ky Mi ed M atrix Surfa	Surface (e (S9) (LR neral (F1 atrix (F2) (F3) ace (F6) urface (F	(S8) (LRR R, N RR R, MLRA 14) (LRR K, L)	1LRA 149B)	Indicators for Problematic Hydric Soils ³ : 2 cm Muck (A10) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (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) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B)
Histosol (A Histic Epipe Black Histic Hydrogen S Stratified L Depleted B Thick Dark Sandy Muc Sandy Gley Sandy Red Stripped M	1) edon (A2) c (A3) Sulfide (A4) ayers (A5) delow Dark Surfa Surface (A12) cky Mineral (S1) ved Matrix (S4) ox (S5) latrix (S6)	ace (A1	Thin Dark Si Loamy Muc Loamy Gley Depleted M Redox Dark Depleted Da	urfac ky Mi ed M atrix Surfa ark Su	e (S9) (LR neral (F1 atrix (F2) (F3) ace (F6) urface (F7	RR R, MLRA 14) (LRR K, L)		2 cm Muck (A10) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (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) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B)
Histic Epipe Black Histic Hydrogen S Stratified L Depleted B Thick Dark Sandy Muc Sandy Gley Sandy Red Stripped M	edon (A2) c (A3) Sulfide (A4) ayers (A5) selow Dark Surfa Surface (A12) ky Mineral (S1) ved Matrix (S4) ox (S5) latrix (S6)	ace (A1	Thin Dark Si Loamy Muc Loamy Gley Depleted M Redox Dark Depleted Da	urfac ky Mi ed M atrix Surfa ark Su	e (S9) (LR neral (F1 atrix (F2) (F3) ace (F6) urface (F7	RR R, MLRA 14) (LRR K, L)		Coast Prairie Redox (A16) (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) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B)
Black Histic Hydrogen Stratified L Depleted B Thick Dark Sandy Muc Sandy Gley Sandy Red Stripped M	c (A3) Sulfide (A4) ayers (A5) selow Dark Surfa Surface (A12) ky Mineral (S1) ved Matrix (S4) ox (S5) latrix (S6)	ace (A1	Loamy Muc Loamy Gley Depleted M 1)/ Redox Dark Depleted Da	ky Mi ed M atrix Surfa ark Su	neral (F1 atrix (F2) (F3) ace (F6) urface (F3) (LRR K, L)	+20)	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)
Hydrogen Stratified L Depleted B Thick Dark Sandy Muc Sandy Gley Sandy Red Stripped M	Sulfide (A4) ayers (A5) selow Dark Surfa Surface (A12) ky Mineral (S1) ved Matrix (S4) ox (S5) latrix (S6)	ace (A1	Loamy Gley Depleted M Redox Dark Depleted Da	ed M atrix Surfa ark Su	atrix (F2) (F3) ace (F6) urface (F7			 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)
Stratified L Depleted B Thick Dark Sandy Muc Sandy Gley Sandy Red Stripped M	ayers (A5) selow Dark Surfa Surface (A12) ky Mineral (S1) ved Matrix (S4) ox (S5) latrix (S6)	ace (A1	Depleted M 1)/ Redox Dark Depleted Da	atrix Surfa ark Su	(F3) ace (F6) urface (F7			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)
Thick Dark Sandy Muc Sandy Gley Sandy Red Stripped M	Surface (A12) ky Mineral (S1) yed Matrix (S4) ox (S5) latrix (S6)	ace (A1	1) <u> </u> Redox Dark <u> </u>	Surfa ark Su	ace (F6) urface (F7	7)		Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B)
Sandy Muc Sandy Gley Sandy Red Stripped M	ky Mineral (S1) ved Matrix (S4) ox (S5) latrix (S6)		•			7)		Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B)
Sandy Gley Sandy Red Stripped M	ved Matrix (S4) ox (S5) latrix (S6)		Redox Depr	essio	ns (F8)			Piedmont Floodplain Soils (F19) (MLRA 149B)
Sandy Red Stripped M	ox (S5) latrix (S6)							
Stripped M	latrix (S6)							
								•
Dark Surfa	ce (S7) (I RR R M							Red Parent Material (F21) Very Shallow Dark Surface (TF12)
	cc (57) (Little it, iv	ILRA 14	19B)					Other (Explain in Remarks)
Indicators of I	hydrophytic veg	etation	and wetland hyd	drolos	ov must l	ne present. I	nless disturbed	d or problematic.
	er (if observed):		and medanang	0.0	5)		ess distal sec	4 0. p. 03.c
Туј			Gravel			Hydric Soil	Present?	Yes No
De	pth (inches):		9	•				
Remarks:						•		

Hydrology Photos



Vegetation Photos





Project/Site: Trelina	City/County: Wat	erloo, Seneca	Sampling Date: 2019-June-26			
Applicant/Owner: NextEra		State: NY	Sampling Point: W-NWJ-20; UPL-1			
Investigator(s): Nick DeJohn, Na	ate Jones	Section, Township,	Range:			
Landform (hillslope, terrace, etc.):	: Agricultural Field	Local relief (concave, conv	ex, none): Flat Slope (%): 0-1			
Subregion (LRR or MLRA): LF	RR L	Lat: 42.890979219	3 Long: -76.9269698393 Datum: WGS84			
Soil Map Unit Name: Schoharie	e silt loam, 2 to 6 percent slopes		NWI classification:			
Are climatic/hydrologic conditions	s on the site typical for this time of ye	ear? Yes No	(If no, explain in Remarks.)			
Are Vegetation <u></u> , Soil,	or Hydrology significantly di		al Circumstances" present? Yes 🟒 No			
Are Vegetation, Soil,	or Hydrology naturally prob	lematic? (If needed,	explain any answers in Remarks.)			
Summary of Findings – A	ttach site map showing sampli	ng point locations, trar	nsects, important features, etc.			
Hydrophytic Vegetation Present?	? Yes No _∠ _					
Hydric Soil Present?	Yes No _ ∠ _	Is the Sampled Area withi	nin a Wetland? Yes No/			
Wetland Hydrology Present?	Yes No _ _ _	If yes, optional Wetland Si	Site ID:			
			te ib.			
Remarks: (Explain alternative pro	ocedures here or in a separate report	·)				
TRC covertype is UPL. Circumstai	nces are not normal due to agricultur	ral activities, Recent rain				
HYDROLOGY						
THE NOTE OF THE PARTY OF THE PA						
Wetland Hydrology Indicators:						
Primary Indicators (minimum of	one is required; check all that apply)		Secondary Indicators (minimum of two required)			
Surface Water (A1)	Water-Stained Lea		Surface Soil Cracks (B6)			
High Water Table (A2)	Aquatic Fauna (B1		Drainage Patterns (B10)			
Saturation (A3)	Marl Deposits (B1		Moss Trim Lines (B16) Dry-Season Water Table (C2)			
Water Marks (B1)	Hydrogen Sulfide		G . G . B . (GG)			
Sediment Deposits (B2)	Oxidized Rhizospi	heres on Living Roots (C3)	Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9)			
Drift Deposits (B3)	Presence of Redu	ced Iron (C4)	Stunted or Stressed Plants (D1)			
Algal Mat or Crust (B4)		ction in Tilled Soils (C6)	Geomorphic Position (D2)			
Iron Deposits (B5)	Thin Muck Surface		Shallow Aquitard (D3)			
Inundation Visible on Aerial Ir			Microtopographic Relief (D4)			
Sparsely Vegetated Concave S	Surface (B8)		FAC-Neutral Test (D5)			
Field Observations:						
Surface Water Present?	Yes No Depth	(inches):				
Water Table Present?	Yes No <u></u> ✓ Depth	(inches):	Wetland Hydrology Present? Yes No			
Saturation Present?		(inches):				
	les Νο <u>-</u> / Deptil	(11101103).	•			
(includes capillary fringe)						
Describe Recorded Data (stream	gauge, monitoring well, aerial photo	s, previous inspections), if a	available:			
Remarks:						
I						

<u>Tree Stratum</u> (Plot size: <u>30 ft</u>)		Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That		
1. Acer rubrum	10	Yes	FAC	Are OBL, FACW, or FAC:	2	(A)
2.				Total Number of Dominant Species	4	(B)
3.				Across All Strata:		
4.				Percent of Dominant Species That	50	(A/B)
5.				Are OBL, FACW, or FAC: Prevalence Index worksheet:		
6				Total % Cover of:	Multiply	Rv.
7				OBL species 0	x 1 =	.پر ط 0
	10	= Total Cov	er er	FACW species 0	x 2 =	0
Sapling/Shrub Stratum (Plot size: 15 ft)				FAC species 20	x 3 =	60
1				FACU species 35	x 4 =	140
2				UPL species 0	x 5 =	0
3				Column Totals 55	(A)	200 (B)
4				Prevalence Index = B/A =	· · · -	
5				Hydrophytic Vegetation Indicators:		
6				1- Rapid Test for Hydrophytic	/egetation	ı
7				2 - Dominance Test is > 50%	-8	
	0	_= Total Cov	ver .	3 - Prevalence Index is $\leq 3.0^{\circ}$		
Herb Stratum (Plot size:5 ft)				4 - Morphological Adaptations	¹ (Provide	supporting
1. Trifolium repens	20	Yes	FACU	data in Remarks or on a separate sh	neet)	
2. Ambrosia artemisiifolia	15	Yes	FACU	Problematic Hydrophytic Vege	tation¹ (Ex	(plain)
3. Equisetum arvense	10	Yes	FAC	l Indicators of hydric soil and wetlan		gy must be
4				present, unless disturbed or proble	matic	
5				Definitions of Vegetation Strata:		
6.				Tree – Woody plants 3 in. (7.6 cm) o		diameter at
7				breast height (DBH), regardless of h		2011
8.				Sapling/shrub – Woody plants less t greater than or equal to 3.28 ft (1 m		DRH and
9.				Herb – All herbaceous (non-woody)		aardlass of
10.				size, and woody plants less than 3.2		gai diess oi
11.				Woody vines – All woody vines grea		.28 ft in
12		- Total Ca		height.		
Manda Nina Chroham (Diat sina 20 ft	45	= Total Cov	⁄er	Hydrophytic Vegetation Present?	Yes N	lo /
Woody Vine Stratum (Plot size: 30 ft) 1.				J. I. J. I. B. I. I. I. I. I. I. I. I. I. I. I. I. I.		- <u></u>
2.						
3.						
4.						
* .		= Total Cov	·or			
Remarks: (Include photo numbers here or on a separat	e sheet.)					

Depth Matrix	· ·		dicator or confirm the a	osence of indicators.)
· -		x Features		D
(inches) Color (moist)	% Color (moist)	<u>%</u> Type¹	Loc² Texture	Remarks
0 - 12 10YR 4/3	100		Silt Loam	
 -				
				
	<u> </u>			
	<u> </u>			
		- 		
	· —— ·			
Type: C = Concentration, D =	Doplation PM - Paduca		Asked Sand Grains 21	ocation: PL = Pore Lining, M = Matrix.
* 1	Depletion, Kivi – Reduce	u Matrix, M3 – W	iaskeu sailu diailisLi	Indicators for Problematic Hydric Soils ³ :
Hydric Soil Indicators:	Dalasaksa D		\ (I DD D A4I DA 440D\	indicators for Problematic Hydric Soils.
Histosol (A1) Histic Epipedon (A2)	_) (LRR R, MLRA 149B)	2 cm Muck (A10) (LRR K, L, MLRA 149B)
Histic Epipedon (A2) Black Histic (A3)		urface (S9) (LRR F ky Mineral (F1) (L		Coast Prairie Redox (A16) (LRR K, L, R)
Hydrogen Sulfide (A4)		ed Matrix (F2)	INN N, L)	5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
Stratified Layers (A5)	Depleted Ma			Dark Surface (S7) (LRR K, L)
Depleted Below Dark Surf				Polyvalue Below Surface (S8) (LRR K, L)
Thick Dark Surface (A12)		rk Surface (F7)		Thin Dark Surface (S9) (LRR K, L)
Sandy Mucky Mineral (S1)	Redox Depr			Iron-Manganese Masses (F12) (LRR K, L, R)
Sandy Gleyed Matrix (S4)		(,		Piedmont Floodplain Soils (F19) (MLRA 149B)
Sandy Redox (S5)				Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
Stripped Matrix (S6)				Red Parent Material (F21)
Dark Surface (S7) (LRR R, I	ALDA 1AQR)			Very Shallow Dark Surface (TF12)
Dark Surface (57) (Like it, i	NEION 1430)			Other (Explain in Remarks)
³Indicators of hydrophytic veg	getation and wetland hyd	Irology must be	present, unless disturbe	d or problematic.
Restrictive Layer (if observed)	:			
Type:	Rocks/gravel		Hydric Soil Present?	Yes No <u>_</u> ✓
Depth (inches):	12			

Vegetation Photos



Soil Photos



Project/Site: Trelina	City/County: Wa	terloo, Seneca		Sampling Date: 201	9-June-26
Applicant/Owner: NextEra		State: NY	Sa	ampling Point: W-NV	VJ-21; PEM-1
Investigator(s): Nick DeJohn, Na	ate Jones	Section, Township,	Range:		
Landform (hillslope, terrace, etc.):	Depression	Local relief (concave, conv	/ex, none):(Concave	Slope (%): 0-1
Subregion (LRR or MLRA):	RR L	Lat: 42.893258761	7 Long: -	76.9251791295	Datum: WGS84
Soil Map Unit Name: Odessa si	ilt loam, 0 to 2 percent slopes			NWI classification	ı:
Are climatic/hydrologic conditions	s on the site typical for this time of y	ear? Yes No	_ ∠ (If no, e	xplain in Remarks.)	
Are Vegetation, Soil,	or Hydrology significantly d		al Circumsta	nces" present?	⁄es _ _∕ _ No
Are Vegetation, Soil,	or Hydrology naturally prob	olematic? (If needed,	explain any	answers in Remarks.)	
SUMMARY OF FINDINGS – A	ttach site map showing sampl	ing point locations, trai	nsects, imp	oortant features, e	tc.
Hydrophytic Vegetation Present?	Yes _ ✓ _ No				
Hydric Soil Present?	Yes _ 🗸 No	Is the Sampled Area withi	in a Wetland	? Yes _	No
Wetland Hydrology Present?	Yes _ ∠ _ No	If yes, optional Wetland S	ite ID:	W-N	WJ-21
	ocedures here or in a separate repor				
Remarks. (Explain alternative pro	ocedures here or in a separate repor	·)			
TPC covertype is PEM Wetter the	an average vear				
TRC covertype is PEM. Wetter tha	in average year				
HYDROLOGY					
Wetland Hydrology Indicators:					
	one is required; check all that apply)	1	Secondary I	Indicators (minimum	of two required)
✓ Surface Water (A1)	Water-Stained Le		-	Soil Cracks (B6)	•
✓ High Water Table (A2)			Drainage	e Patterns (B10)	
✓ Saturation (A3)	Marl Deposits (B		Moss Tri	im Lines (B16)	
Water Marks (B1)	Hydrogen Sulfide	e Odor (C1)		son Water Table (C2)	
Sediment Deposits (B2)	Oxidized Rhizosp	oheres on Living Roots (C3)	Crayfish	Burrows (C8)	
_				on Visible on Aerial In	
Drift Deposits (B3)	Presence of Redu			or Stressed Plants (D	1)
Algal Mat or Crust (B4)		uction in Tilled Soils (C6)		phic Position (D2)	
Iron Deposits (B5) Inundation Visible on Aerial Ir	Thin Muck Surfact magery (B7) Other (Explain in			Aquitard (D3) pographic Relief (D4)	
Sparsely Vegetated Concave S		Remarks)		utral Test (D5)	
Field Observations:	<u></u>		// C-INCC	20.31 1031 (D3)	
Surface Water Present?	Yes _✓_ No Depth	n (inches): 4			
Water Table Present?	·	n (inches):	- Wetland Hv	drology Present?	Yes _ _ No
Saturation Present?		· · · · · · · · · · · · · · · · · · ·	- Wedana riy	drology i resent:	103100
	Yes _ \(\sum_ \) No Depth	n (inches): 0	_		
(includes capillary fringe)					
Describe Recorded Data (stream	gauge, monitoring well, aerial photo	os, previous inspections), if	available:		
Remarks:					

-	Abcoluto	Dominant	Indicator	Dominance Test worksheet:		
<u>Tree Stratum</u> (Plot size: <u>30 ft</u>)		Species?	Status	Number of Dominant Species Tha		
	70 COVE	эресіез:	Julius	Are OBL, FACW, or FAC:	2	(A)
1.				Total Number of Dominant Specie	<u> </u>	
2.				Across All Strata:	2	(B)
3				Percent of Dominant Species That		
4				Are OBL, FACW, or FAC:	100	(A/B)
5				Prevalence Index worksheet:	_	
6.				Total % Cover of:	Multiply E	Bv:
7				OBL species 20	x 1 =	20
	0	= Total Cove	er	FACW species 20	x 2 =	40
Sapling/Shrub Stratum (Plot size:15 ft)				FAC species 5	x3=	15
1				FACU species 0	- x 4 =	0
2.				UPL species 0	_	0
3.				·		
4.				Column Totals 45	_ (A) _	75 (B)
5.				Prevalence Index = B/A =	1./	
6.	_			Hydrophytic Vegetation Indicators	:	
7.				1- Rapid Test for Hydrophytic	Vegetation	
		= Total Cove	ar	2 - Dominance Test is >50%		
Herb Stratum (Plot size:5 ft)		_ Total Cove	-1	\checkmark 3 - Prevalence Index is \le 3.01		
1. Phragmites australis	20	Yes	FACW	4 - Morphological Adaptation	s1 (Provide s	supporting
				data in Remarks or on a separate		
2. Juncus effusus	_ 15	Yes	OBL	Problematic Hydrophytic Veg	etation¹ (Ex	plain)
3. Alisma triviale	_ 5	No No	OBL	Indicators of hydric soil and wetla		gy must be
4. Populus deltoides	5	No	FAC	present, unless disturbed or probl	ematic	
5				Definitions of Vegetation Strata:		
6				Tree – Woody plants 3 in. (7.6 cm)		liameter at
7				breast height (DBH), regardless of	_	
8				Sapling/shrub – Woody plants less		BH and
9				greater than or equal to 3.28 ft (1		
10				Herb – All herbaceous (non-wood)		ardless of
11				size, and woody plants less than 3		
12.				Woody vines – All woody vines gre	ater than 3.2	28 ft in
	45	= Total Cove	er	height.		
Woody Vine Stratum (Plot size:30 ft)		_		Hydrophytic Vegetation Present?	Yes N	0
1.						
2.				•		
3.	_			•		
4.				•		
		= Total Cove	ar	-		
		_ Total Cove	-1			
Remarks: (Include photo numbers here or on a separ	ate sheet.)					

O - 6 10YR 2/2 93 7.5YR 4/6 7 C M Silty Clay Loam 6 - 20 10YR 3/1 88 10YR 5/8 12 C M Silty Clay ype: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. ²Location: PL = Pore Lining, M = Matrix. ydric Soil Indicators: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, MLRA 149B) Histic Epipedon (A2) Thin Dark Surface (S9) (LRR R, MLRA 149B) Elack Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Depleted Below Dark Surface (A11) Pepleted Dark Surface (F6) Thick Dark Surface (A12) Depleted Dark Surface (F7) Sandy Mucky Mineral (S1) Redox Dark Surface (F7) Sandy Mucky Mineral (S1) Redox Dark Surface (F8) Sandy Redox (S5) Stripped Matrix (S4) Sandy Redox (S5) Dark Surface (S7) (LRR R, MLRA 149B) Dark Surface (S7) (LRR R, L) Tipic Manganese Masses (F12) (LRR K, L) Type: None Hydric Soil Present? Yes No Hydric Soil Present? Yes No Hydric Soil Present? Yes No Hydric Soil Present?	(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture	Remarks
ype: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. ² Location: PL = Pore Lining, M = Matrix. ydric 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) — 2 cm Muck (A10) (LRR K, L, MLRA 149B) Hydrogen Sulfide (A4) — Loamy Mucky Mineral (F1) (LRR K, L) — 5 cm Mucky Peat or Peat (S3) (LRR K, L) Stratified Layers (A5) — Depleted Matrix (F3) — Depleted Bark Surface (F6) — Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A11) ∠ Redox Dark Surface (F6) — Thin Dark Surface (S9) (LRR K, L) Sandy Mucky Mineral (S1) — Redox Depressions (F8) — Polyvalue Below Surface (S9) (LRR K, L) Sandy Gleyed Matrix (S4) — Redox Depressions (F8) — Piedmont Floodplain Soils (F19) (MLRA 149F) Sandy Redox (S5) — Redox Depressions (F8) — Piedmont Floodplain Soils (F19) (MLRA 149F) Dark Surface (S7) (LRR R, MLRA 149B) — Redox Depressions (F8) — Piedmont Floodplain Soils (F19) (MLRA 149F) Dark Surface (S7) (LRR R, MLRA 149B) — Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Back Surface (S7) (LRR R, MLRA 149B) — Very Shallow Dark Surface (TF12) — Other (Explain in Remarks) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Estrictive Layer (if observed): — None — Hydric Soil Present? Yes ∠ No — Piedmont Surface (S0) (LRR K, L) — Piedmont Surface (S0) (LRR K, L) — Piedmont Floodplain Soil (S0) — Piedmont Floodplain Soil (S0) — Piedmont Floodplain Soil (S0) — Piedmont Floodplain Soil (S0) — Piedmont Floodplain Soil (S0) — Piedmont Floodplain Soil (S0) — Piedmont Floodplain Soil (S0) — Piedmont Floodplain Soil (S0) — Piedmont Floodplain Soil (S0) — Piedmont Floodplain Soil (S0) — Piedmont Floodplain Soil (S0) — Piedmont Floodplain Soil (S0) — Piedmont Floodplain Soil (S0) — Piedmont Floodplain Soil (S0) — Piedmont Floodplain Soil (S0) — Piedmont Floodplain Soil (S0) — Piedmont Floodplain Soil (S0) — Piedm	0 - 6								-
ydric Soil Indicators: 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, 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) Polyvalue Below Surface (S8) (LRR K, L) Thick Dark Surface (A11) Redox Dark Surface (F6) Thick Dark Surface (A12) Depleted Dark Surface (F7) Iron-Manganese Masses (F12) (LRR K, L) Sandy Mucky Mineral (S1) Redox Depressions (F8) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Gleyed Matrix (S4) Redox (S5) Stripped Matrix (S6) Red Parent Material (F21) Dark Surface (S7) (LRR R, MLRA 149B) mdicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. estrictive Layer (if observed): Type: None Hydric Soil Present? Yes No Deplematic Nurse (S9) (LRR K, L) Hydric Soil Present? Yes No Deplematic Hydric Soils (S1) Coast Prairie Redox (A16) (LRR K, L, R) Coast Prairie Redox (A16) (LRR K, L, R) Coast Prairie Redox (A16) (LRR K, L, R) Dark Surface (S7) (LRR K, L, R) Polyvalue Below Surface (S8) (LRR K, L, R) Polyvalue Below Surface (S8) (LRR K, L, R) Polyvalue Below Surface (S9) (LRR K, L, R) Polyvalue Below Surface (S9) (LRR K, L, R) Polyvalue Below Surface (S9) (LRR K, L, R) Polyvalue Below Surface (S9) (LRR K, L, R) Polyvalue Below Surface (S9) (LRR K, L, R) Polyvalue Below Surface (S9) (LRR K, L, R) Polyvalue Below Surface (S9) (LRR K, L, R) Polyvalue Below Surface (S9) (LRR K, L, R) Polyvalue Below Surface (S9) (LRR K, L, R) Polyvalue Below Surface (S9) (LRR K, L, R) Polyvalue Below Surface (S9) (LRR K, L, R) Polyvalue Below Surface (S9) (LRR K, L) Polyvalue Below Surface (S9) (LRR K, L) Polyvalue Below Surface (S9) (LRR K, L) Polyvalue Below Surface (S9) (LRR K, L) Polyvalue Below Surface (S9) (LRR K,	6 - 20	10YR 3/1	88	10YR 5/8	12	С	M	Silty Clay	
ydric Soil Indicators: 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) 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 (S8) (LRR K, L) Thick Dark Surface (A11) Pedeox Dark Surface (F6) Thick Dark Surface (A12) Depleted Dark Surface (F7) Iron-Manganese Masses (F12) (LRR K, L) Sandy Mucky Mineral (S1) Redox Depressions (F8) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Redox (S5) Red Parent Material (F21) Porty Shallow Dark Surface (TF12) Other (Explain in Remarks) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.					_				
rdric Soil Indicators: _ Histosol (A1)			_		_				
Indicators for Problematic Hydric Soils*: Histosol (A1)					_				
ydric Soil Indicators: _ Histosol (A1)			- —						
ydric Soil Indicators: 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, 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) Polyvalue Below Surface (S8) (LRR K, L) Thick Dark Surface (A11) Redox Dark Surface (F6) Thick Dark Surface (A12) Depleted Dark Surface (F7) Iron-Manganese Masses (F12) (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) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Red Parent Material (F21) Dark Surface (S7) (LRR R, MLRA 149B) midicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. estrictive Layer (if observed): Type: None Hydric Soil Present? Yes No Deptematic Numbers (S9) (LRR K, L) Hydric Soil Present? Yes No Deptematic Hydric Soils (S1) Coast Prairie Redox (A16) (LRR K, L, R) Coast Prairie Redox (A16) (LRR K, L, R) Coast Prairie Redox (A16) (LRR K, L, R) Dark Surface (S7) (LRR K, L, R) Polyvalue Below Surface (S8) (LRR K, L, R) Polyvalue Below Surface (S8) (LRR K, L, R) Polyvalue Below Surface (S9) (LRR K, L, R) Polyvalue Below Surface (S9) (LRR K, L, R) Polyvalue Below Surface (S9) (LRR K, L, R) Polyvalue Below Surface (S9) (LRR K, L, R) Polyvalue Below Surface (S9) (LRR K, L, R) Polyvalue Below Surface (S9) (LRR K, L, R) Polyvalue Below Surface (S9) (LRR K, L, R) Polyvalue Below Surface (S9) (LRR K, L, R) Polyvalue Below Surface (S9) (LRR K, L) Polyvalue Below Surface (S9) (LRR K, L) Polyvalue Below Surface (S9) (LRR K, L) Polyvalue Below Surface (S9) (LRR K, L) Polyvalue Below Surface (S9) (LRR K, L) Polyvalue Below Surface (S9) (LRR K, L) Polyvalue					_				
Histosol (A1)			Depleti	ion, RM = Reduce	d Mat	rix, MS =	Masked Sand Grain		
Histic Epipedon (A2)				Daharahaa D			0) (I DD D A4I DA 440		Problematic Hydric Soils3:
Black Histic (A3)		` '						2 cm wack	
Hydrogen Sulfide (A4)		•							
Stratified Layers (A5)				-	-		(= iv, L)		
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) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Dark Surface (S7) (LRR R, MLRA 149B) Dark Surface (S7) (LRR R, MLRA 149B) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Type: None Hydric Soil Present? Yes ✓ No Depth (inches):	_ , .								
Thick Dark Surface (A12)			ace (A1					-	
	 Thick Da	ark Surface (A12)	•	Depleted Da	rk Su	rface (F7)			
Sandy Gleyed Matrix (S4)Sandy Redox (S5)Stripped Matrix (S6)Dark Surface (S7) (LRR R, MLRA 149B)dicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. estrictive Layer (if observed):Type:None	_ Sandy N	Mucky Mineral (S1)							
Sandy Redox (S5) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Red Parent Material (F21) 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): Type: None	_ Sandy (Gleyed Matrix (S4)							•
Stripped Matrix (S6)	-	-							
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): Type: None Hydric Soil Present? Yes _ No Depth (inches):			ILRA 14	49B)				-	
estrictive Layer (if observed): Type: None Hydric Soil Present? Yes _ ✓ No Depth (inches):									
Depth (inches):				and wetland hyd	irolog	y must be	present, unless dis	turbed or problemation	<u>.</u>
	Courte !			None	_		Hydric Soil Present	:?	Yes No
emarks:	esti ictive	Type:			-				
	esti icave								
							1		
	demarks:								

Hydrology Photos



Vegetation Photos





Project/Site: Trelina	City/County: Wat	erloo, Seneca	Sampling Date: 2019-June-26
Applicant/Owner: NextEra		State: NY	Sampling Point: W-NWJ-21; UPL-1
Investigator(s): Nick DeJohn, N	ate Jones	Section, Township,	Range:
Landform (hillslope, terrace, etc.)	: Agricultural Field	Local relief (concave, conv	rex, none): Flat Slope (%): 0-1
Subregion (LRR or MLRA): L	RR L	Lat: 42.893525431	9 Long: -76.9255438261 Datum: WGS84
Soil Map Unit Name: Odessa s	ilt loam, 0 to 2 percent slopes		NWI classification:
Are climatic/hydrologic condition	is on the site typical for this time of ye	ear? Yes No	(If no, explain in Remarks.)
Are Vegetation <u></u> ✓, Soil,	or Hydrology significantly di		al Circumstances" present? Yes <u>✓</u> No
Are Vegetation, Soil,	or Hydrology naturally prob	lematic? (If needed,	explain any answers in Remarks.)
SUMMARY OF FINDINGS – A	Attach site map showing sampli	ng point locations, trar	nsects, important features, etc.
Hydrophytic Vegetation Present	? Yes No _ _/	1	
Hydric Soil Present?	Yes No _ _ _	Is the Sampled Area withi	n a Wetland? Yes No/
Wetland Hydrology Present?		If yes, optional Wetland Si	
	Yes No _ _		te ib.
Remarks: (Explain alternative pro	ocedures here or in a separate report	t)	
TRC covertype is UPL. Circumsta	inces are not normal due to agricultui	ral activities, Wetter than a	verage year
,	G		
HYDROLOGY			
Wetland Hydrology Indicators:			
	one is required; check all that apply)		Secondary Indicators (minimum of two required)
Surface Water (A1)	Water-Stained Le	avec (RQ)	Surface Soil Cracks (B6)
High Water Table (A2)	Aquatic Fauna (B		Drainage Patterns (B10)
Saturation (A3)			Moss Trim Lines (B16)
Water Marks (B1)	Hydrogen Sulfide		Dry-Season Water Table (C2)
Sediment Deposits (B2)	, ,	heres on Living Roots (C3)	Crayfish Burrows (C8)
•	·		Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B3)	Presence of Redu	ced Iron (C4)	Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4)		ction in Tilled Soils (C6)	Geomorphic Position (D2)
Iron Deposits (B5)	Thin Muck Surfac		Shallow Aquitard (D3)
Inundation Visible on Aerial I		Remarks)	Microtopographic Relief (D4)
Sparsely Vegetated Concave	Surface (B8)		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)		· · · · · · · · · · · · · · · · · · ·	
	n gauge, monitoring well, aerial photo	s provious inspections) if	available:
Describe Recorded Data (stream	rgauge, monitoring well, aeriai prioto	s, previous irispections), ii d	avallable.
Remarks:			

Tree Stratum (Plot size:30 ft)		Dominant		Dominance Test worksheet:		
1.	% Cover	Species?	Status	Number of Dominant Species 1 Are OBL, FACW, or FAC:	hat 0	(A)
2.				Total Number of Dominant Spe	cies 2	(B)
3.				Across All Strata:		
4				Percent of Dominant Species TAre OBL, FACW, or FAC:	nat 0	(A/B)
5				Prevalence Index worksheet:		
6				- Total % Cover of:	Multiply	/ By:
7				OBL species 0	x 1 =	0
	0	= Total Cov	/er	FACW species 0	x 2 =	0
Sapling/Shrub Stratum (Plot size:15 ft)				FAC species 0	x 3 =	0
1.				- FACU species 25	x 4 =	100
2.				UPL species 0	x 5 =	0
3.				- Column Totals 25	(A)	100 (B)
4				Prevalence Index = B	A = <u>4</u>	
5				Hydrophytic Vegetation Indicat	ors:	
6				- Lapid Test for Hydroph		n
7				2 - Dominance Test is > 50	%	
	0	= Total Cov	/er	3 - Prevalence Index is ≤	5.0 ¹	
Herb Stratum (Plot size:5 ft)	4.5	V	EAGLI	4 - Morphological Adapta	ons¹ (Provide	supporting
1. Plantago lanceolata	15	Yes	FACU	– data in Remarks or on a separa	te sheet)	
2. Erigeron annuus	10	Yes	FACU	Problematic Hydrophytic	/egetation¹ (E	xplain)
3.				landicators of hydric soil and w	,	ogy must be
4.				_ present, unless disturbed or pr		
5				Definitions of Vegetation Strata		
6.				Tree – Woody plants 3 in. (7.6 c		diameter at
7				breast height (DBH), regardless		DDII I
8.				Sapling/shrub – Woody plants greater than or equal to 3.28 ft		DBH and
9.				Herb – All herbaceous (non-wo		agardless of
10.				size, and woody plants less tha		egararess or
11.				Woody vines – All woody vines		3.28 ft in
12			-	height.	,	
NV 1 15 5 1 10 11 11 20 5	25	= Total Cov	/er	Hydrophytic Vegetation Prese	it? Yes	No ./
Woody Vine Stratum (Plot size: 30 ft)				.,,,		
1				-		
2.				-		
3.				-		
4		- Total Ca				
	0	= Total Cov	/er			
Remarks: (Include photo numbers here or on a separat	e sheet.)					

Depth Matrix (inches) Color (moist)			idicator or confirm the al	osence of indicators.)
		Features		
	% Color (moist)	% Type¹	Loc ² Texture	Remarks
0 - 12 10YR 3/3	100	_	Silt Loam	
		. <u> </u>		
,				
		. <u> </u>		
		<u> </u>		
		<u> </u>		
		_	 -	
		· — — ·		·
Type: C = Consentration D = D	onlation DM = Dadusad	Matrix MC = N	Analysis Cand Crains 21	position DI = Doro Lining M = Matrix
Type: C = Concentration, D = D	epietion, Rivi – Reduced	IVIALITIX, IVIS – IV	/lasked Salid Grains. *Li	ocation: PL = Pore Lining, M = Matrix.
Hydric Soil Indicators:				Indicators for Problematic Hydric Soils ³ :
Histosol (A1)	-		(LRR R, MLRA 149B)	2 cm Muck (A10) (LRR K, L, MLRA 149B)
Histic Epipedon (A2)		rface (S9) (LRR l y Mineral (F1) (I		Coast Prairie Redox (A16) (LRR K, L, R)
Black Histic (A3) Hydrogen Sulfide (A4)	Loamy Gleye		LKK N, L)	5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
Stratified Layers (A5)	Depleted Ma			Dark Surface (S7) (LRR K, L)
Depleted Below Dark Surfac				Polyvalue Below Surface (S8) (LRR K, L)
Thick Dark Surface (A12)	· · ·	k Surface (F7)		Thin Dark Surface (S9) (LRR K, L)
Sandy Mucky Mineral (S1)	Redox Depre			Iron-Manganese Masses (F12) (LRR K, L, R)
Sandy Gleyed Matrix (S4)		33.3.13 (1.3)		Piedmont Floodplain Soils (F19) (MLRA 149B)
Sandy Redox (S5)				Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
Stripped Matrix (S6)				Red Parent Material (F21)
Dark Surface (S7) (LRR R, ML	DA 140D)			Very Shallow Dark Surface (TF12)
Dark Surface (37) (LKK K, ML	.KA 1430)			Other (Explain in Remarks)
³ Indicators of hydrophytic veget	ation and wetland hydi	ology must be	present, unless disturbe	d or problematic.
Restrictive Layer (if observed):				
Type:	Compaction	_	Hydric Soil Present?	Yes No
Depth (inches):	12			

Vegetation Photos



Soil Photos



Project/Site: Trelina	City/County: Wat	erloo, Seneca		Sampling Date: 201	9-June-26
Applicant/Owner: NextEra		State: NY		Sampling Point: W-NW	/J-22; UPL-1
Investigator(s): Nick DeJohn, Na	te Jones	Section, Township,	Range:		
Landform (hillslope, terrace, etc.):	Agricultural Field	Local relief (concave, conve	ex, none):	Flat	Slope (%): 0-1
Subregion (LRR or MLRA): LR	RL	Lat: 42.894869698	8 Long:	-76.9232622453	Datum: WGS84
Soil Map Unit Name: Schoharie	silty clay loam, 0 to 2 percent slopes	5		NWI classification	:
Are climatic/hydrologic conditions	on the site typical for this time of ye			explain in Remarks.)	
Are Vegetation, Soil,	or Hydrology significantly di			•	′es _ ∠ No
Are Vegetation, Soil,	or Hydrology naturally probl	lematic? (If needed,	explain an	y answers in Remarks.)	
Summary of Findings – At	tach site map showing sampli	ng point locations, tran	isects, in	nportant features, e	tc.
Hydrophytic Vegetation Present?	Yes No _ ✓				
Hydric Soil Present?	Yes No	Is the Sampled Area within	n a Wetlan	d? Yes	No⁄_
Wetland Hydrology Present?	Yes No _ _ ✓	If yes, optional Wetland Si			
			te ib.		
Remarks: (Explain alternative prod	cedures here or in a separate report)			
TRC covertype is UPL. Recent rain					
The covertype is of L. Recent ruin					
LIVEROLOGY					
HYDROLOGY					
Wetland Hydrology Indicators:					
Primary Indicators (minimum of o	one is required; check all that apply)		Secondar	y Indicators (minimum	of two required)
Surface Water (A1)	Water-Stained Lea	aves (B9)	Surfac	e Soil Cracks (B6)	
High Water Table (A2)	Aquatic Fauna (B1	3)		age Patterns (B10)	
Saturation (A3)	Marl Deposits (B1			Trim Lines (B16)	
Water Marks (B1)	Hydrogen Sulfide		-	eason Water Table (C2) sh Burrows (C8)	
Sediment Deposits (B2)	Oxidized Rhizosph	neres on Living Roots (C3)	-	ition Visible on Aerial In	nagery (C9)
Drift Deposits (B3)	Presence of Redu	ced Iron (C4)		ed or Stressed Plants (D	
Algal Mat or Crust (B4)		ction in Tilled Soils (C6)		orphic Position (D2)	• ,
Iron Deposits (B5)	Thin Muck Surface			w Aquitard (D3)	
Inundation Visible on Aerial Im	nagery (B7) Other (Explain in I	Remarks)	Microt	copographic Relief (D4)	
Sparsely Vegetated Concave S	urface (B8)		FAC-N	eutral Test (D5)	
Field Observations:					
Surface Water Present?	Yes No Depth	(inches):			
Water Table Present?	Yes No 🟒 Depth	(inches):	Wetland I	Hydrology Present?	Yes No ∠
Saturation Present?	Yes No 🟒 Depth	(inches):			
(includes capillary fringe)					
Describe Recorded Data (stream)	gauge, monitoring well, aerial photo:	s, previous inspections), if a	vailable:		
Remarks:					

Tree Stratum (Plot size:30 ft)	Absolute	Dominant	Indicator	Dominance Test works	heet:		
1.	% Cover	Species?	Status	Number of Dominant S Are OBL, FACW, or FAC	•	0	(A)
2.	-			Total Number of Domir		1	(B)
3.				Across All Strata:			
4.				Percent of Dominant S		0	(A/B)
5.				Are OBL, FACW, or FAC: Prevalence Index work:			
6				- Total % Cover		Multiply	Rv.
7				- OBL species	0	x 1 =	0
	0	= Total Cov	ver er	FACW species	0	x 2 =	0
Sapling/Shrub Stratum (Plot size:15 ft)				FAC species	0	x 3 =	0
1				- FACU species	70	x 4 =	280
2				- UPL species	0	x 5 =	0
3.				- Column Totals	70	(A)	280 (B)
4				Prevalence Ir		4	200 (2)
5				Hydrophytic Vegetation			
6				- Language 1- Rapid Test for H		/ogotation	,
7				2 - Dominance Te		egetatioi	Į.
	0	= Total Cov	ver .	3 - Prevalence Ind			
Herb Stratum (Plot size:5 ft)				4 - Morphological		(Provide	supporting
1. Solidago canadensis	70	Yes	FACU	- data in Remarks or on			Supporting
2				Problematic Hydr	•		(plain)
3.				¹Indicators of hydric so			•
4.				present, unless disturb		,	6)ast 20
5.				Definitions of Vegetation			-
6.				Tree – Woody plants 3 i		more in	diameter at
7.				breast height (DBH), re			
8.				Sapling/shrub - Woody			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	dy vines great	er than 3	.28 ft in
	70	= Total Cov	er	height.			
Woody Vine Stratum (Plot size:30 ft)	-	=		Hydrophytic Vegetatio	n Present? \	/es N	No ol
1.							
2.				-			
3.				-			
4.				-			
	0	= Total Cov	/er	=			
Remarks: (Include photo numbers here or on a separat	e sheet.)						

Depth Matrix (inches) Color (moist)				indicator o	r confirm the ab	sence of indicators.)
·		Redox F			- .	.
	· 	or (moist)	% Type¹	Loc ²	Texture	Remarks
0 - 14 10YR 3/3	100			. —— –	Silt Loam	
	· 					
	· 					
				<u> </u>		
		,				
	· — —			· —— —		
 -	· —					
Type C = Concentration D =	Dopleties DM	- Dodusod N		Maskad C	and Crains 21 o	estion DI - Dero Lining M - Matrix
Type: C = Concentration, D =	Depletion, Riv	– Reduced IV	riatrix, ivi5 -	· Maskeu So	and Grains. *Lo	ocation: PL = Pore Lining, M = Matrix.
lydric Soil Indicators:	-		.	50) # BB B		Indicators for Problematic Hydric Soils ³ :
Histosol (A1)		olyvalue Belov				2 cm Muck (A10) (LRR K, L, MLRA 149B)
Histic Epipedon (A2)		nin Dark Surfa Damy Mucky N			1498)	Coast Prairie Redox (A16) (LRR K, L, R)
Black Histic (A3) Hydrogen Sulfide (A4)	· 	oamy Gleyed		(LKK K, L)		5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
Stratified Layers (A5)		epleted Matri				Dark Surface (S7) (LRR K, L)
Stratified Layers (AS) Depleted Below Dark Surfa						Polyvalue Below Surface (S8) (LRR K, L)
Thick Dark Surface (A12)		epleted Dark		')		Thin Dark Surface (S9) (LRR K, L)
Sandy Mucky Mineral (S1)		edox Depress		,		Iron-Manganese Masses (F12) (LRR K, L, R)
Sandy Gleyed Matrix (S4)		saox Bepress	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			Piedmont Floodplain Soils (F19) (MLRA 149B)
Sandy Redox (S5)						Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
Stripped Matrix (S6)						Red Parent Material (F21)
Stripped Matrix (36) Dark Surface (S7) (LRR R, N	41 DA 140D)					Very Shallow Dark Surface (TF12)
Dark Surface (37) (LKK K, N	ILKA 1496)					Other (Explain in Remarks)
Indicators of hydrophytic veg	etation and w	etland hydrol	logy must b	e present,	unless disturbed	d or problematic.
estrictive Layer (if observed):						
Type:	Rocks/	Gravel		Hydric So	oil Present?	Yes No
Depth (inches):	1	4				

Hydrology Photos



Vegetation Photos





Project/Site: Trelina	City/County: W	aterloo, Seneca	Sampling Date	2019-June-26
Applicant/Owner: NextEra		State: NY	Sampling Point:	W-NWJ-23; PEM-1
Investigator(s): Nick DeJohn, N	late Jones	Section, Township,	Range:	
Landform (hillslope, terrace, etc.)): Agricultural Field	Local relief (concave, conv	ex, none): Concave	Slope (%): 0-1
Subregion (LRR or MLRA):	RR L	Lat: 42.893853415	8 Long: -76.9238877297	Datum: WGS84
Soil Map Unit Name: Claverac	k loamy fine sand, 2 to 6 percent slo	ppes	NWI classif	ication:
Are climatic/hydrologic condition	ns on the site typical for this time of	year? Yes No	(If no, explain in Rema	rks.)
Are Vegetation, Soil,	or Hydrology significantly	disturbed? Are "Norma	al Circumstances" present?	Yes _ ✓ No
Are Vegetation, Soil,	or Hydrology naturally pro	oblematic? (If needed,	explain any answers in Rer	narks.)
SUMMARY OF FINDINGS – A	Attach site map showing samp	oling point locations, tran	sects, important featu	ires, etc.
	<u> </u>	1		
Hydrophytic Vegetation Present	? Yes No			
Hydric Soil Present?	Yes No	Is the Sampled Area withi	n a Wetland?	Yes No
Wetland Hydrology Present?	Yes No	If yes, optional Wetland Si	te ID:	W-NWJ-23
Remarks: (Explain alternative pr	ocedures here or in a separate repo	ort)		.
remains (Explain aleaniative pi	occounts here or in a separate repe			
TRC covertype is PEM. Wetter th	an average year			
HYDROLOGY				
Wetland Hydrology Indicators:				
Primary Indicators (minimum of	one is required; check all that apply	χ <u>)</u>	Secondary Indicators (min	imum of two required)
✓ Surface Water (A1)	Water-Stained L	_eaves (B9)	Surface Soil Cracks (B6)
✓ High Water Table (A2)	⁄ Aquatic Fauna (B13)	Drainage Patterns (B10))
✓ Saturation (A3)	Marl Deposits (I	B15)	Moss Trim Lines (B16)	
Water Marks (B1)	Hydrogen Sulfic	de Odor (C1)	Dry-Season Water Tabl	e (C2)
Sediment Deposits (B2)	Oxidized Rhizos	spheres on Living Roots (C3)	Crayfish Burrows (C8)	
			Saturation Visible on A	erial Imagery (C9)
Drift Deposits (B3)	Presence of Red	duced Iron (C4)	Stunted or Stressed Pla	ants (D1)
Algal Mat or Crust (B4)	Recent Iron Rec	duction in Tilled Soils (C6)	Geomorphic Position (I	D2)
Iron Deposits (B5)	Thin Muck Surfa	ace (C7)	Shallow Aquitard (D3)	
Inundation Visible on Aerial	lmagery (B7) Other (Explain i	n Remarks)	Microtopographic Relie	ef (D4)
Sparsely Vegetated Concave	Surface (B8)		✓ FAC-Neutral Test (D5)	
Field Observations:				
Surface Water Present?	Yes _✓_ No Dep	th (inches):		
Water Table Present?	·	th (inches):	Wetland Hydrology Preser	nt? Ves / No
	·		vectaria riyurology Preser	nt? Yes No
Saturation Present?	Yes No Dep	th (inches): 0		
(includes capillary fringe)				
Describe Recorded Data (stream	n gauge, monitoring well, aerial pho	tos, previous inspections), if a	available:	
Remarks:				
I				

	Absolute	Dominant	Indicator	Dominance Test worksheet:		
Tree Stratum (Plot size: 30 ft)		Species?	Status	Number of Dominant Species That		
1.		 -		Are OBL, FACW, or FAC:	2	(A)
2.				Total Number of Dominant Species	,	(D)
3.				Across All Strata:	' 2 	(B)
4.				Percent of Dominant Species That	100	(A /D)
				Are OBL, FACW, or FAC:		(A/B)
5.				Prevalence Index worksheet:		
6.				Total % Cover of:	Multiply B	<u>sy:</u>
7				OBL species 70	x 1 =	70
	0	_= Total Cove	er	FACW species 0	x 2 =	0
Sapling/Shrub Stratum (Plot size: 15 ft)				FAC species 0	x 3 =	0
1				FACU species 0	x 4 =	0
2				UPL species 0	x 5 =	0
3				Column Totals 70	(A)	70 (B)
4				Prevalence Index = B/A =	- ' ' -	70 (b)
5						
6.				Hydrophytic Vegetation Indicators:		
7.				1- Rapid Test for Hydrophytic	Vegetation	
	0	= Total Cove	er	2 - Dominance Test is >50%		
Herb Stratum (Plot size: _ 5 ft)	-	=		\checkmark 3 - Prevalence Index is ≤ 3.0 ¹		
1. Carex stipata	35	Yes	OBL	4 - Morphological Adaptation		upporting
2. Carex vulpinoidea	25	Yes	OBL	data in Remarks or on a separate s		
3. Lythrum salicaria	10	No No	OBL	Problematic Hydrophytic Veg		
4.			OBL	¹Indicators of hydric soil and wetla		y must be
5.				present, unless disturbed or proble	ematic	
				Definitions of Vegetation Strata:		
6.				Tree – Woody plants 3 in. (7.6 cm)		iameter at
7				breast height (DBH), regardless of	_	
8				Sapling/shrub – Woody plants less		BH and
9				greater than or equal to 3.28 ft (1 r		
10				Herb – All herbaceous (non-woody size, and woody plants less than 3.		ardiess of
11						00 ft in
12				Woody vines – All woody vines greheight.	iter triair 5.2	20 11 111
	70	_= Total Cove	er			
Woody Vine Stratum (Plot size: 30 ft)				Hydrophytic Vegetation Present?	Yes No	D
1						
2.						
3.						
4.						
	0	= Total Cove	er			
		=				
Remarks: (Include photo numbers here or on a separa	ite sneet.)					

(inches)	Color (moist)	%	Color (moist)	%	Type¹	Loc²	Textu	ure Remarks
0 - 14	10YR 2/2	90	5YR 4/6	10		M/PL	Silty Clay	
		- — - — - —						
	oncentration, D =	Deple	tion, RM = Reduce	d Ma	trix, MS =	Masked S	Sand Grains. ² Lo	ocation: PL = Pore Lining, M = Matrix.
Hydric Soil Histosol	ndicators:						, MLRA 149B)	Indicators for Problematic Hydric Soils ³ :
Black Hi Hydroge Stratifie Deplete Thick Da Sandy N Sandy R Stripped	oipedon (A2) stic (A3) en Sulfide (A4) d Layers (A5) d Below Dark Surfark Surface (A12) ducky Mineral (S1) sileyed Matrix (S4) edox (S5) d Matrix (S6) rface (S7) (LRR R, I		Depleted D	ky Mi ed M atrix Surf ark Si	ineral (F1 atrix (F2) (F3) ace (F6) urface (F7) (LRR K , L)		Coast Prairie Redox (A16) (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) 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)
	of hydrophytic veg		n and wetland hy	drolo	gy must l	e present	, unless disturbe	d or problematic.
	.ayer (if observed)	:	rocks/gravel			Lludric C	oil Drocont?	Voc. 7 No
	Type: Depth (inches):		rocks/gravel 14			nyuric so	oil Present?	Yes/_ No

Hydrology Photos



Vegetation Photos





Project/Site: Trelina		City/Coun	ty: Waterloo, Sene	eca	S	ampling Date: 20	19-June-26		
Applicant/Owner: NextEra				State: NY	San	npling Point: W-N	WJ-23; UPL-1		
Investigator(s): Nick DeJohn, N	ate Jones		Se	ction, Township,	Range:				
Landform (hillslope, terrace, etc.)	: Agricult	tural Field	Local relie	ef (concave, conv	ex, none) : Fla	ıt	Slope (%): 0-1		
Subregion (LRR or MLRA):	RR L		 Lat	: 42.894064975	Long: -76	5.9240733889	Datum: WGS84		
Soil Map Unit Name: Schohari	e silty clay loa	m, 0 to 2 percen	it slopes			NWI classification	n:		
Are climatic/hydrologic condition	s on the site t	ypical for this tin	ne of year?	Yes No	(If no, exp	olain in Remarks.)			
Are Vegetation, Soil,	or Hydrol	ogy signific	antly disturbed?		al Circumstand		Yes No		
Are Vegetation, Soil,		ogy natural		(If needed,	explain any ar	nswers in Remarks	i.)		
SUMMARY OF FINDINGS - A	attach site n	nan showing s	amnling noint	locations tran	nsects impo	rtant features	etc		
SOMMAN OF THE HINDHAS - F		nap snowing s	sampling point	iocations, trai	isects, impo	rtant reatures,			
Hydrophytic Vegetation Present	?	Yes No	<u>′</u>						
Hydric Soil Present?		Yes No	<u>✓</u> Is the Sar	npled Area withi	n a Wetland?	Ye	s No⁄_		
Wetland Hydrology Present?		Yes No	If ves. opt	ional Wetland Si	ite ID:				
Remarks: (Explain alternative pr	ocedures ber					· · · · · · · · · · · · · · · · · · ·			
Remarks. (Explain alternative pr	ocedures riere	e or iii a separate	e report)						
TRC covertype is UPL. Recent rai	n								
	_								
HYDROLOGY									
Wetland Hydrology Indicators:									
Primary Indicators (minimum of	one is require	ed: check all that	apply)		Secondary Inc	dicators (minimum	of two required)		
•	one is require				-	oil Cracks (B6)	ror two requiredy		
Surface Water (A1)			ined Leaves (B9)			Patterns (B10)			
High Water Table (A2)		Aquatic Fa			_	n Lines (B16)			
Saturation (A3)		Marl Depo				Dry-Season Water Table (C2)			
Water Marks (B1) Sediment Deposits (B2)			Sulfide Odor (C1) Rhizospheres on Li	ving Poots (C2)			,		
Sediment Deposits (B2)		Oxidized F	Milzospileres on Li	virig Roots (C3)		n Visible on Aerial I	magery (C9)		
Drift Deposits (B3)		Presence	of Reduced Iron (C	(4)		r Stressed Plants (
Algal Mat or Crust (B4)			n Reduction in Till	-			D1)		
Iron Deposits (B5)			Surface (C7)	ed Jolis (Co)	Geomorphic Position (D2) Shallow Aquitard (D3)				
Inundation Visible on Aerial I	magery (B7)		olain in Remarks)			ographic Relief (D4)		
Sparsely Vegetated Concave	0, 1	Other (EX	Jan III Kemarks,			ral Test (D5)	,		
Field Observations:	Surface (Bo)				1710 110011	di lest (DS)			
	Voc	No. 4	Donth (inches)						
Surface Water Present?	Yes	· · · · · · · · · · · · · · · · · · ·	Depth (inches):		-				
Water Table Present?	Yes	No <u>/</u>	Depth (inches):		Wetland Hyd	rology Present?	Yes No		
Saturation Present?	Yes	No	Depth (inches):						
(includes capillary fringe)					-				
Describe Recorded Data (stream	a gaugo moni	toring well perio	l photos provious	inconctions) if	available:				
Describe Recorded Data (Stream	r gauge, mom	toring well, aeria	ii priotos, previous	inspections), ii c	avallable.				
Remarks:									

	Absolute	Dominant	Indicator	Dominance Test worksheet:		
Tree Stratum (Plot size: 30 ft)	% Cover	Species?	Status	Number of Dominant Species Tha	at o	(4)
1.				Are OBL, FACW, or FAC:	0	(A)
2.				Total Number of Dominant Specie	es 2	(D)
3.				Across All Strata:		(B)
4.				Percent of Dominant Species Tha	t o	(A/B)
5.				Are OBL, FACW, or FAC:		(A/B)
				Prevalence Index worksheet:		
6.				Total % Cover of:	Multiply	By:
7				OBL species 0	x 1 =	0
	0	_= Total Cove	er	FACW species 0	x 2 =	0
Sapling/Shrub Stratum (Plot size: 15 ft)				FAC species 0	x 3 =	0
1				FACU species 35	x 4 =	140
2				UPL species 0	x 5 =	0
3				Column Totals 35	(A)	140 (B)
4.					_ ` ` -	140 (b)
5.				Prevalence Index = B/A		
6.				Hydrophytic Vegetation Indicator		
7.				1- Rapid Test for Hydrophyti		1
		= Total Cove	r	2 - Dominance Test is > 50%		
Herb Stratum (Plot size: _ 5 ft)		_		3 - Prevalence Index is ≤ 3.0	1	
1. Elaeagnus umbellata	35	Yes	Upl	4 - Morphological Adaptatio		supporting
Solidago canadensis	25	Yes		data in Remarks or on a separate		
			FACU	Problematic Hydrophytic Ve	_	•
3. Taraxacum officinale	8	No	FACU	Indicators of hydric soil and wetl	,	gy must be
4. Fraxinus americana	2	No	FACU	present, unless disturbed or prob	lematic	
5				Definitions of Vegetation Strata:		
6				Tree – Woody plants 3 in. (7.6 cm)	or more in	diameter at
7				breast height (DBH), regardless o	height.	
8.				Sapling/shrub – Woody plants les	s than 3 in. I	DBH and
9.				greater than or equal to 3.28 ft (1		
10.				Herb – All herbaceous (non-wood	y) plants, re	gardless of
11.				size, and woody plants less than :	3.28 ft tall.	
12.				Woody vines – All woody vines gr	eater than 3	3.28 ft in
	70	= Total Cove	r	height.		
Woody Vine Stratum (Plot size:30 ft)		_	.,	Hydrophytic Vegetation Present?	Yes 1	Vo <u> </u>
1.						
·						
2.						
3.						
4						
	0	= Total Cove	er			
Remarks: (Include photo numbers here or on a separa	te sheet.)					
	-					

Depth (inches) Color (moist) 0 - 11 10YR 3/3 10YR 3/3 11Type: C = Concentration, D = Depleted Below Dark Surface Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface	% Color (moist) 100 10YR 5/8 epletion, RM = Reduced Polyvalue Bel	ow Surface (S face (S9) (LRR / Mineral (F1)	Masked Sand Grains. ² L 8) (LRR R, MLRA 149B)	
1Type: C = Concentration, D = De Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface	epletion, RM = Reduced Polyvalue Bel Thin Dark Sur Loamy Mucky Loamy Gleyed	Matrix, MS =	Masked Sand Grains. ² L	ocation: PL = Pore Lining, M = Matrix. Indicators for Problematic Hydric Soils³: 2 cm Muck (A10) (LRR K, L, MLRA 149B)
¹Type: C = Concentration, D = De Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface	epletion, RM = Reduced Polyvalue Bel Thin Dark Sur Loamy Mucky Loamy Gleyed	ow Surface (S face (S9) (LRR / Mineral (F1)	Masked Sand Grains. ² L 8) (LRR R, MLRA 149B)	ocation: PL = Pore Lining, M = Matrix. Indicators for Problematic Hydric Soils³: 2 cm Muck (A10) (LRR K, L, MLRA 149B)
Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface	Polyvalue Bel Thin Dark Sur Loamy Mucky Loamy Gleyed	ow Surface (S face (S9) (LRR / Mineral (F1)	8) (LRR R, MLRA 149B)	Indicators for Problematic Hydric Soils ³ : 2 cm Muck (A10) (LRR K, L, MLRA 149B)
Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface	Polyvalue Bel Thin Dark Sur Loamy Mucky Loamy Gleyed	ow Surface (S face (S9) (LRR / Mineral (F1)	8) (LRR R, MLRA 149B)	Indicators for Problematic Hydric Soils ³ : 2 cm Muck (A10) (LRR K, L, MLRA 149B)
Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface	Polyvalue Bel Thin Dark Sur Loamy Mucky Loamy Gleyed	ow Surface (S face (S9) (LRR / Mineral (F1)	8) (LRR R, MLRA 149B)	Indicators for Problematic Hydric Soils ³ : 2 cm Muck (A10) (LRR K, L, MLRA 149B)
Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface	Polyvalue Bel Thin Dark Sur Loamy Mucky Loamy Gleyed	ow Surface (S face (S9) (LRR / Mineral (F1)	8) (LRR R, MLRA 149B)	Indicators for Problematic Hydric Soils ³ : 2 cm Muck (A10) (LRR K, L, MLRA 149B)
Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface	Polyvalue Bel Thin Dark Sur Loamy Mucky Loamy Gleyed	ow Surface (S face (S9) (LRR / Mineral (F1)	8) (LRR R, MLRA 149B)	Indicators for Problematic Hydric Soils ³ : 2 cm Muck (A10) (LRR K, L, MLRA 149B)
Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface	Polyvalue Bel Thin Dark Sur Loamy Mucky Loamy Gleyed	ow Surface (S face (S9) (LRR / Mineral (F1)	8) (LRR R, MLRA 149B)	Indicators for Problematic Hydric Soils ³ : 2 cm Muck (A10) (LRR K, L, MLRA 149B)
Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface	Polyvalue Bel Thin Dark Sur Loamy Mucky Loamy Gleyed	ow Surface (S face (S9) (LRR / Mineral (F1)	8) (LRR R, MLRA 149B)	Indicators for Problematic Hydric Soils ³ : 2 cm Muck (A10) (LRR K, L, MLRA 149B)
Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface	Polyvalue Bel Thin Dark Sur Loamy Mucky Loamy Gleyed	ow Surface (S face (S9) (LRR / Mineral (F1)	8) (LRR R, MLRA 149B)	Indicators for Problematic Hydric Soils ³ : 2 cm Muck (A10) (LRR K, L, MLRA 149B)
Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface	Polyvalue Bel Thin Dark Sur Loamy Mucky Loamy Gleyed	ow Surface (S face (S9) (LRR / Mineral (F1)	8) (LRR R, MLRA 149B)	Indicators for Problematic Hydric Soils ³ : 2 cm Muck (A10) (LRR K, L, MLRA 149B)
Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface	Polyvalue Bel Thin Dark Sur Loamy Mucky Loamy Gleyed	ow Surface (S face (S9) (LRR / Mineral (F1)	8) (LRR R, MLRA 149B)	Indicators for Problematic Hydric Soils ³ : 2 cm Muck (A10) (LRR K, L, MLRA 149B)
Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface	Polyvalue Bel Thin Dark Sur Loamy Mucky Loamy Gleyed	ow Surface (S face (S9) (LRR / Mineral (F1)	8) (LRR R, MLRA 149B)	Indicators for Problematic Hydric Soils ³ : 2 cm Muck (A10) (LRR K, L, MLRA 149B)
Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface	Polyvalue Bel Thin Dark Sur Loamy Mucky Loamy Gleyed	ow Surface (S face (S9) (LRR / Mineral (F1)	8) (LRR R, MLRA 149B)	Indicators for Problematic Hydric Soils ³ : 2 cm Muck (A10) (LRR K, L, MLRA 149B)
Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface	Polyvalue Bel Thin Dark Sur Loamy Mucky Loamy Gleyed	ow Surface (S face (S9) (LRR / Mineral (F1)	8) (LRR R, MLRA 149B)	Indicators for Problematic Hydric Soils ³ : 2 cm Muck (A10) (LRR K, L, MLRA 149B)
 Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface 	Thin Dark Sui Loamy Mucky Loamy Gleyed	face (S9) (LRR / Mineral (F1)		2 cm Muck (A10) (LRR K, L, MLRA 149B)
 Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface 	Thin Dark Sui Loamy Mucky Loamy Gleyed	face (S9) (LRR / Mineral (F1)		
Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surfac	Loamy Mucky Loamy Gleyed	/ Mineral (F1)	k, MLRA 149B)	Coast Prairie Redox (A16) (LRR K. L. R)
Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surfac	Loamy Gleye		(LBB 1/ 1)	
Stratified Layers (A5) Depleted Below Dark Surfac			(LRR K, L)	5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
Depleted Below Dark Surfac	Depleted Mai			Dark Surface (S7) (LRR K, L)
'	o (A11) Podov Dark S			Polyvalue Below Surface (S8) (LRR K, L)
Thick Dark Surface (A12)	Depleted Dark 3			Thin Dark Surface (S9) (LRR K, L)
Sandy Mucky Mineral (S1)	Redox Depre			Iron-Manganese Masses (F12) (LRR K, L, R)
Sandy Matrix (S4)	Redox Depre	3310113 (1 0)		Piedmont Floodplain Soils (F19) (MLRA 149B)
Sandy Gleyed Matrix (54) Sandy Redox (S5)				Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
				Red Parent Material (F21)
Stripped Matrix (S6)	DA 140D)			Very Shallow Dark Surface (TF12)
Dark Surface (S7) (LRR R, ML	.KA 149B)			Other (Explain in Remarks)
³ Indicators of hydrophytic veget	tation and wetland hydr	ology must be	e present, unless disturbe	ed or problematic.
Restrictive Layer (if observed):				
Type:	Compaction		Hydric Soil Present?	Yes No⁄_
Depth (inches):	11			

Hydrology Photos



Vegetation Photos





Project/Site: Trelina	City/County: Gen	eva, Ontario	Sampling D	Date: 2019-June-26		
Applicant/Owner: NextEra		State: NY	Sampling Poi	nt: W-NWJ-24; PEM-1		
Investigator(s): Nick DeJohn, I	Nate Jones	Section, Township,	Range:			
Landform (hillslope, terrace, etc	c.): Depression	Local relief (concave, conv	ex, none): Concave	Slope (%): 0-1		
Subregion (LRR or MLRA):	LRR L	Lat: 42.870597599	2 Long: -76.9795604	918 Datum: WGS84		
Soil Map Unit Name: Clavera	ck loamy fine sand, 0 to 2 percent slope	es	NWI cla	ssification:		
Are climatic/hydrologic conditio	ns on the site typical for this time of ye	ar? Yes No	✓ (If no, explain in Re	marks.)		
Are Vegetation, Soil,			al Circumstances" prese	nt? Yes 🟒 No		
Are Vegetation, Soil,	or Hydrology naturally probl	ematic? (If needed,	explain any answers in	Remarks.)		
SUMMARY OF FINDINGS -	Attach site map showing sampli	ng point locations, tra	nsects, important fea	atures, etc.		
Hydrophytic Vegetation Presen	nt? Yes 🟒 No					
Hydric Soil Present?	Yes No	Is the Sampled Area with	n a Wetland?	Yes No		
•		i				
Wetland Hydrology Present?	Yes No	If yes, optional Wetland S	ite iD.	W-NWJ-24		
Remarks: (Explain alternative p	rocedures here or in a separate report)				
TRC covertype is PEM. Wetter to	han average year					
HYDROLOGY						
Wetland Hydrology Indicators:						
<u>Primary Indicators (minimum o</u>	of one is required; check all that apply)			ninimum of two required)		
✓ Surface Water (A1)	Water-Stained Lea		Surface Soil Cracks			
<u>√</u> High Water Table (A2)	Aquatic Fauna (B1		Drainage Patterns (B10)			
✓ Saturation (A3)	Marl Deposits (B1		 Moss Trim Lines (B1 Dry-Season Water T			
Water Marks (B1)	Hydrogen Sulfide					
Sediment Deposits (B2)	Oxidized Rhizospr	neres on Living Roots (C3)	Saturation Visible or			
Drift Deposits (B3)	Presence of Redu	red Iron (C4)	Stunted or Stressed			
Algal Mat or Crust (B4)		tion in Tilled Soils (C6)	Geomorphic Positio			
Iron Deposits (B5)	Thin Muck Surface		Shallow Aquitard (D3)			
Inundation Visible on Aerial	I Imagery (B7) Other (Explain in F	Remarks)	Microtopographic R			
Sparsely Vegetated Concave	e Surface (B8)		✓ FAC-Neutral Test (D			
Field Observations:						
Surface Water Present?	Yes No Depth	(inches): 2				
Water Table Present?	Yes _ 🗸 No Depth	(inches): 0	Wetland Hydrology Pre	esent? Yes No		
Saturation Present?	•	(inches): 0				
(includes capillary fringe)	163 <u>v</u> 110 Bepar	(menes).				
				· · · · · · · · · · · · · · · · · · ·		
Describe Recorded Data (stream	m gauge, monitoring well, aerial photo:	s, previous inspections), if	avaliable:			
Remarks:						

·				Danis and Trakensulaka	-4-		
Tree Stratum (Plot size: 30 ft)		Dominant		Dominance Test workshe			
	% Cover	Species?	Status	Number of Dominant Spe Are OBL, FACW, or FAC:	ecies mai	2	(A)
1				Total Number of Domina	nt Charias		
2				Across All Strata:	iit species	2	(B)
3.				Percent of Dominant Spe	cioc That		
4				Are OBL, FACW, or FAC:	cies mat	100	(A/B)
5				Prevalence Index worksh	oot:		
6.				Total % Cover of		Multiply F). n
7.					_	Multiply E	•
	0	= Total Cove	r	OBL species	55	x 1 =	55
Sapling/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
3.				UPL species	0	x 5 =	0
-				Column Totals	55	(A)	55 (B)
4.				Prevalence Inde	ex = B/A =	1	
5				Hydrophytic Vegetation I	ndicators:		
6				1- Rapid Test for Hy		egetation	
7				✓ 2 - Dominance Test		-601411011	
	0	_= Total Cove	r	✓ 3 - Prevalence Index			
Herb Stratum (Plot size:5 ft)				4 - Morphological A		(Provide c	upporting
1. Eleocharis palustris	40	Yes	OBL	data in Remarks or on a s			upporting
2. <i>Typha latifolia</i>	15	Yes	OBL	Problematic Hydrop			alain)
3.	15			Indicators of hydric soil	-		
4.				present, unless disturbed		-	y must be
5.					-	Hatic	
6.				Definitions of Vegetation			
				Tree – Woody plants 3 in.			iameter at
7.				breast height (DBH), rega			DIId
8.				Sapling/shrub - Woody p			BH and
9				greater than or equal to 3			
10				Herb – All herbaceous (no size, and woody plants le			ardiess of
11							00 ft in
12				Woody vines – All woody	vines great	er than 3.2	28 11 111
	70	= Total Cove	r	height.			
Woody Vine Stratum (Plot size: 30 ft)				Hydrophytic Vegetation	Present? Y	'es 🟒 No	o
1.							
2.							
3.							
4.							
" - <u> </u>		= Total Cove	r				
	_	-					
Remarks: (Include photo numbers here or on a separ	ate sheet.)						

Depth (inches)	Matrix Color (moist)	%	Redox I	%	Type ¹	Loc ²	Textu	ire Remarks
0 - 13	10YR 3/2	95	7.5YR 5/8	5	С	M	Silty Clay	
		_		_				
				_				
		_		_				
		_		_				
		· <u> </u>		_				
Type: C = 0		Depleti	on, RM = Reduced	 Mat	rix, MS =	 Masked	Sand Grains. ² Lo	ocation: PL = Pore Lining, M = Matrix.
	Indicators:				,			Indicators for Problematic Hydric Soils ³ :
Histoso			Polyvalue Beld	ow S	urface (S	8) (LRR F	R, MLRA 149B)	2 cm Muck (A10) (LRR K, L, MLRA 149B)
	oipedon (A2)		Thin Dark Sur					Coast Prairie Redox (A16) (LRR K, L, R)
	istic (A3)		Loamy Mucky			(LRR K, L	_)	5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
	en Sulfide (A4)		Loamy Gleyed					Dark Surface (S7) (LRR K, L)
	d Layers (A5)		Depleted Mat					Polyvalue Below Surface (S8) (LRR K, L)
	d Below Dark Surfa ark Surface (A12)	ce (AT						Thin Dark Surface (S9) (LRR K, L)
	Mucky Mineral (S1)		Depleted Dark					Iron-Manganese Masses (F12) (LRR K, L, R)
,			Redox Depres	ssior	1S (F8)			Piedmont Floodplain Soils (F19) (MLRA 149B)
-	Gleyed Matrix (S4)							Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
-	Redox (S5)							Red Parent Material (F21)
Strippe	d Matrix (S6)							Very Shallow Dark Surface (TF12)
Dark Su	rface (S7) (LRR R, M	LRA 14	19B)					Other (Explain in Remarks)
	of hydrophytic vege	etation	and wetland hydro	olog	y must be	e presen	t, unless disturbe	d or problematic.
Restrictive	Layer (if observed):		C			U salata	C-11 P	Vec. (Ne
	Type:		Compaction			Hydric	Soil Present?	Yes No
	Depth (inches):		13					
Remarks:								

Hydrology Photos



Vegetation Photos





Project/Site: Trelina		City/County: Gen	eva, Ontario	Sampling Date: 2019-June-26				
Applicant/Owner: NextEra			State: NY	Sampling Point: W	/-NWJ-24; UPL-1			
Investigator(s): Nick DeJohn,	Nate Jones		Section, Township,	Range:				
Landform (hillslope, terrace, etc	c.): Agricultural	Field	Local relief (concave, conv	vex, none): Flat	Slope (%): 0-1			
Subregion (LRR or MLRA):	LRR L		Lat: 42.870506454	2 Long: -76.9794591416	Datum: WGS84			
Soil Map Unit Name: Clavera	ck loamy fine sand,	0 to 2 percent slope		NWI classifica				
Are climatic/hydrologic conditio	• • • • • • • • • • • • • • • • • • • •	-		(If no, explain in Remark	5.)			
Are Vegetation, Soil,		significantly dis		al Circumstances" present?	Yes No			
Are Vegetation, Soil,	, or Hydrology _	naturally probl	lematic? (If needed,	explain any answers in Rema	rks.)			
SUMMARY OF FINDINGS -	Attach site map	showing sampli	ng point locations, trai	nsects, important feature	s, etc.			
Hydrophytic Vegetation Presen	nt? Yes	No _ _ _						
Hydric Soil Present?		No	Is the Sampled Area withi	in a Wetland?	Yes No⁄_			
•			<u> </u>					
Wetland Hydrology Present?		No	If yes, optional Wetland S	ite iD.	,			
Remarks: (Explain alternative p	rocedures here or i	n a separate report)					
TRC covertype is UPL. Recent ra	ain							
HYDROLOGY								
Wetland Hydrology Indicators:								
Primary Indicators (minimum o		heck all that apply)		Secondary Indicators (minim	um of two required)			
Surface Water (A1)	·	_ Water-Stained Lea	avec (RQ)	Surface Soil Cracks (B6)	•			
High Water Table (A2)		_ Water-Stained Lea _ Aquatic Fauna (B1		Drainage Patterns (B10)				
Saturation (A3)		_ Marl Deposits (B1		Moss Trim Lines (B16)				
Water Marks (B1)	_	_ Hydrogen Sulfide		Dry-Season Water Table (C2)			
Sediment Deposits (B2)	_		neres on Living Roots (C3)	Crayfish Burrows (C8)				
		- '		Saturation Visible on Aeri	al Imagery (C9)			
Drift Deposits (B3)		_ Presence of Redu	ced Iron (C4)	Stunted or Stressed Plant	:s (D1)			
Algal Mat or Crust (B4)	_	_ Recent Iron Reduc	ction in Tilled Soils (C6)	Geomorphic Position (D2)			
Iron Deposits (B5)		_ Thin Muck Surface		Shallow Aquitard (D3)				
Inundation Visible on Aerial	l Imagery (B7)	_ Other (Explain in I	Remarks)	Microtopographic Relief (D4)			
Sparsely Vegetated Concave	e Surface (B8)			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 (strea	m gauge, monitorin	g well, aerial photo	s, previous inspections), if	available:				
Remarks:								

	Absolute	Dominant	Indicator	Dominance Test worksheet:		
Tree Stratum (Plot size: 30 ft)		Species?	Status	Number of Dominant Species That		(4)
1.				Are OBL, FACW, or FAC:	0	(A)
2.				Total Number of Dominant Species	3 3	(D)
3.				Across All Strata:	2	(B)
				Percent of Dominant Species That	0	(A (D)
4.				Are OBL, FACW, or FAC:		(A/B)
5.				Prevalence Index worksheet:		
6				Total % Cover of:	Multiply	By:
7				OBL species 0	x 1 =	0
	0	_= Total Cove	er	FACW species 0	x 2 =	0
Sapling/Shrub Stratum (Plot size:15 ft)				FAC species 0	x 3 =	0
1				FACU species 40	x 4 =	160
2				UPL species 0	x5=	0
3.				Column Totals 40		
4.					_ (A) _	160 (B)
5.				Prevalence Index = B/A =	4	<u> </u>
6.				Hydrophytic Vegetation Indicators		
7.				1- Rapid Test for Hydrophytic	Vegetation	1
/·		= Total Cove		2 - Dominance Test is > 50%		
		_ TOTAL COVE	:1	3 - Prevalence Index is ≤ 3.0 ¹		
Herb Stratum (Plot size:5 ft)	20		E4.611	4 - Morphological Adaptation	s¹ (Provide	supporting
1. Ambrosia artemisiifolia	30	Yes	FACU	data in Remarks or on a separate s	sheet)	
2. Trifolium repens	10	Yes	FACU	Problematic Hydrophytic Veg	etation¹ (Ex	(plain)
3				¹ Indicators of hydric soil and wetla	nd hydrolo	gy must be
4				present, unless disturbed or probl	ematic	
5				Definitions of Vegetation Strata:		
6.				Tree – Woody plants 3 in. (7.6 cm)	or more in	diameter at
7.				breast height (DBH), regardless of		
8.				Sapling/shrub – Woody plants less	than 3 in. [DBH and
9.		-		greater than or equal to 3.28 ft (1 i		
40				Herb – All herbaceous (non-woody) plants, re	gardless of
				size, and woody plants less than 3.		
11.				Woody vines - All woody vines gre	ater than 3	.28 ft in
12		Tatal Carre		height.		
	40	_= Total Cove	er	Hydrophytic Vegetation Present?	Ves N	do /
Woody Vine Stratum (Plot size: 30 ft)				Trydrophydd Vegetadoi'i Tesent.	103 1	<u>v</u>
1						
2						
3						
4						
	0	= Total Cove	er			
Remarks: (Include photo numbers here or on a separa	ata shaat)					
Remarks. (include prioto numbers here or on a separa	ite si leet.)					

Profile Desc	cription: (Describe t Matrix	to the d	epth needed to d			indicato	r or confirm the a	bsence of in	ndicators.)
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture		Remarks
0 - 11	10YR 4/3	100	Color (moist)	70	туре	LUC	Silt Loam		REHIGIKS
0-11	101114/3	100		-			JIII LOAIT	<u>'</u> -	
		—		-					
		—		-					
				_					
				_					
				-					
				_					
	Concentration, D = I	Depletio	on, RM = Reduced	Mat	rix, MS =	Masked	Sand Grains. ² L		= Pore Lining, M = Matrix.
Hydric Soil								Indicators	for Problematic Hydric Soils ³ :
Histosol			•				R, MLRA 149B)	2 cm N	Muck (A10) (LRR K, L, MLRA 149B)
	oipedon (A2)		Thin Dark Su					Coast	Prairie Redox (A16) (LRR K, L, R)
Black Hi	en Sulfide (A4)		Loamy Muck			(LKK K,	L)		Mucky Peat or Peat (S3) (LRR K, L, R)
	d Layers (A5)		Depleted Ma						Surface (S7) (LRR K, L)
	d Below Dark Surfa	ce (A11							alue Below Surface (S8) (LRR K, L)
	ark Surface (A12)		Depleted Dai)			Park Surface (S9) (LRR K, L)
Sandy N	lucky Mineral (S1)		Redox Depre	ssior	ıs (F8)				Manganese Masses (F12) (LRR K, L, R)
Sandy G	Gleyed Matrix (S4)								ont Floodplain Soils (F19) (MLRA 149B)
Sandy R	tedox (S5)								Spodic (TA6) (MLRA 144A, 145, 149B)
Stripped	d Matrix (S6)								arent Material (F21) hallow Dark Surface (TF12)
Dark Su	rface (S7) (LRR R, M	ILRA 14	9B)					-	(Explain in Remarks)
21	- 6 lea esta esta esta esta esta esta esta es								•
•	of hydrophytic veg		and wetland nydi	rolog	y must b	e preser	it, uniess disturbe	ed or proble	matic.
	Layer (if observed):		Pocks/graval			Lludric	Soil Present?	v	′es No _ _ ⁄_
	Type: Depth (inches):		Rocks/gravel 11	-		пуштс	3011 Present:	ı	esN0_ <u>_</u> /_
-	Depth (inches):		11						
Remarks:									
Observed s	oil compaction was	due to	agricultural activ	ities.					

Vegetation Photos



Soil Photos



Project/Site: Trelina	City/County: Gen	eva, Ontario	Sampling D	oate: 2019-June-26
Applicant/Owner: NextEra		State: NY	Sampling Poir	nt: W-NWJ-25; PFO-1
Investigator(s): Nick DeJohn, N	late Jones	Section, Township,	Range:	
Landform (hillslope, terrace, etc.)): Depression	Local relief (concave, conv	vex, none): Concave	Slope (%): 2-5
Subregion (LRR or MLRA):L	.RR L	Lat: 42.870426597	5 Long: -76.97933358	847 Datum: WGS84
Soil Map Unit Name: Cosad lo	amy fine sand		NWI clas	ssification:
Are climatic/hydrologic condition	ns on the site typical for this time of ye	ar? Yes No	_ ∠ (If no, explain in Re	marks.)
Are Vegetation, Soil,	or Hydrology significantly dis		al Circumstances" presei	nt? Yes 🟒 No
Are Vegetation, Soil,	or Hydrology naturally probl	ematic? (If needed,	explain any answers in F	Remarks.)
SUMMARY OF FINDINGS – A	Attach site map showing sampli	ng point locations, tra	nsects, important fea	atures, etc.
Hydrophytic Vegetation Present	? Yes No			
Hydric Soil Present?	Yes _ ✓ _ No	Is the Sampled Area with	in a Wetland?	Yes/_ No
•		·		
Wetland Hydrology Present?	Yes No	If yes, optional Wetland S	ite iD.	W-NWJ-25
Remarks: (Explain alternative pr	ocedures here or in a separate report)		
TRC covertype is PFO. Wetter the	an average year			
HYDROLOGY				
Wetland Hydrology Indicators:				
Primary Indicators (minimum of	one is required; check all that apply)		-	ninimum of two required)
<u> ✓</u> Surface Water (A1)	Water-Stained Lea		Surface Soil Cracks (•
<u>✓</u> High Water Table (A2)	<u></u> Aquatic Fauna (B1		Drainage Patterns (E	
✓ Saturation (A3)	Marl Deposits (B1		Moss Trim Lines (B1 Dry-Season Water Ta	
Water Marks (B1)	Hydrogen Sulfide	neres on Living Roots (C3)	Crayfish Burrows (C	
Sediment Deposits (B2)	Oxidized Rilizospi	ieres on Living Roots (C3)	Saturation Visible or	
Drift Deposits (B3)	Presence of Redu	ced Iron (C4)	Stunted or Stressed	9 7
Algal Mat or Crust (B4)		ction in Tilled Soils (C6)	✓ Geomorphic Position	
Iron Deposits (B5)	Thin Muck Surface		Shallow Aquitard (D:	
Inundation Visible on Aerial	Imagery (B7) Other (Explain in F	Remarks)	Microtopographic Re	
Sparsely Vegetated Concave	Surface (B8)		FAC-Neutral Test (D	5)
Field Observations:				
Surface Water Present?	Yes No Depth	(inches): 6		
Water Table Present?	Yes No Depth	(inches): 0	Wetland Hydrology Pre	sent? Yes No
Saturation Present?	Yes 🗸 No Depth	(inches): 0	-	
(includes capillary fringe)		· · ·	-	
	n gauge, monitoring well, aerial photos	nravious inspections) if	available:	
Describe Recorded Data (stream	T gauge, monitoring well, aeriai photo.	s, previous irispections), ir	available.	
Remarks:				

·	Absolute	Dominant	Indicator	Dominance Test worksheet:		
Tree Stratum (Plot size: 30 ft)		Species?	Status	Number of Dominant Species That	4	(4)
1. Fraxinus pennsylvanica	35	Yes	FACW	Are OBL, FACW, or FAC:	4	(A)
2. Acer rubrum	25	Yes	FAC	Total Number of Dominant Species	5	(B)
3.				Across All Strata:		(D)
4.				Percent of Dominant Species That	80	(A/B)
5.				Are OBL, FACW, or FAC:		
6.				Prevalence Index worksheet:		
7.				Total % Cover of:	Multiply	<u>By:</u>
··	60	= Total Cov	er	OBL species 0	x 1 = _	0
Sapling/Shrub Stratum (Plot size:15 ft)			C.	FACW species 35	x 2 =	70
1. Rhamnus cathartica	20	Yes	FAC	FAC species 100	x 3 =	300
2.		163	TAC	FACU species 15	x 4 =	60
3.				UPL species 0	x 5 =	0
				Column Totals 150	(A)	430 (B)
4				Prevalence Index = B/A =	2.9	
5.				Hydrophytic Vegetation Indicators:		
6.				1- Rapid Test for Hydrophytic \	egetation/	1
7				2 - Dominance Test is >50%		
	20	_= Total Cov	er	\checkmark 3 - Prevalence Index is \le 3.01		
Herb Stratum (Plot size:5 ft)				4 - Morphological Adaptations	¹ (Provide	supporting
1. Toxicodendron radicans	45	Yes	FAC	data in Remarks or on a separate sh	neet)	
2. Parthenocissus quinquefolia	15	Yes	FACU	Problematic Hydrophytic Vege	tation¹ (Ex	(plain)
3. <u>Arisaema triphyllum</u>	10	<u>No</u>	FAC	¹ Indicators of hydric soil and wetlan	d hydrolo	gy must be
4				present, unless disturbed or problem	matic	
5				Definitions of Vegetation Strata:		
6				Tree – Woody plants 3 in. (7.6 cm) or	r more in o	diameter at
7				breast height (DBH), regardless of h	-	
8				Sapling/shrub – Woody plants less t		DBH and
9.				greater than or equal to 3.28 ft (1 m		
10				Herb – All herbaceous (non-woody)		gardless of
11				size, and woody plants less than 3.2		20.6
12				Woody vines – All woody vines great	ter than 3.	.28 π in
	70	= Total Cov	er	height.		
Woody Vine Stratum (Plot size: 30 ft)				Hydrophytic Vegetation Present?	Yes <u>√</u> N	lo
1						
2						
3.						
4.						
	0	= Total Cov	er			
Remarks: (Include photo numbers here or on a separat	o cheet \	_		_		
Remarks. (include prioto numbers here or on a separat	e sneet.)					

Depth Matrix	o the o	epth needed to d Redox			ndicator	or confirm the al	bsence of indicators	5.)
(inches) Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Textu	ıre	Remarks
0 - 10 10YR 3/1	96	10YR 5/8	4	<u>С</u>	M	Silty Clay		Kemara
			— — — —					
	<u> </u>		<u> </u>		<u> </u>			
Type: C = Concentration, D = [epleti	on, RM = Reduced	— Mat	rix. MS =	 Masked	Sand Grains. ² Lo	ocation: PL = Pore L	ining, M = Matrix.
lydric Soil Indicators:	Spice	, Reduced	···at	, 1713	Jicu			blematic Hydric Soils ³ :
Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surfa Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, M	LRA 14	Thin Dark Su Loamy Muck Loamy Gleye Depleted Ma .) _ Redox Dark S Depleted Dar Redox Depre	rface y Mir d Ma trix (I Gurfa rk Su essior	(S9) (LRR eral (F1) trix (F2) F3) ce (F6) cface (F7) ns (F8)	R, MLRA)	Coast Prairie R 5 cm Mucky Pe Dark Surface (Polyvalue Belo Thin Dark Surf Iron-Mangane Piedmont Floo Mesic Spodic (Red Parent Ma Very Shallow D	ow Surface (S8) (LRR K, L) face (S9) (LRR K, L) se Masses (F12) (LRR K, L, R) odplain Soils (F19) (MLRA 149B) TA6) (MLRA 144A, 145, 149B) aterial (F21) Dark Surface (TF12)
Indicators of hydrophytic vege	tation	and wetland hydr	olog	y must be	e presen	t, unless disturbe	d or problematic.	
Restrictive Layer (if observed):						c 15	.,	
Type:		Clay			Hyaric	Soil Present?	Ye	es No
Depth (inches):		10						
Remarks: Due to inundation a clear soil ք	orofile	was unobtainable	. Soil	s are assı	umed to	be hydric.		

Hydrology Photos



Vegetation Photos





Project/Site: Trelina	City/County: Gen	eva, Ontario		Sampling Date: 20	19-June-26
Applicant/Owner: NextEra	-	State: NY		Sampling Point: W-N	WJ-25; UPL-1
Investigator(s): Nick DeJohn, Na	ite Jones	Section, Township,	Range:		
Landform (hillslope, terrace, etc.):	Hillslope	Local relief (concave, conve	ex, none):_	Convex	Slope (%): 2-5
Subregion (LRR or MLRA): LR	RR L	Lat: 42.8707021382	2 Long:_	-76.9794110489	Datum: WGS84
Soil Map Unit Name: Cosad loa	my fine sand			NWI classificatio	n:
Are climatic/hydrologic conditions	on the site typical for this time of ye	ar? Yes No	_ ✓ (If no,	explain in Remarks.)	
Are Vegetation, Soil,	or Hydrology significantly dis	sturbed? Are "Norma	al Circumsta	ances" present?	Yes No
Are Vegetation, Soil,	or Hydrology naturally probl	ematic? (If needed,	explain any	y answers in Remarks	.)
SUMMARY OF FINDINGS – At	ttach site map showing sampli	ng point locations, tran	nsects, im	portant features,	etc.
Hydrophytic Vegetation Present?	Yes No _ ✓	ĺ			
Hydric Soil Present?	Yes No _ _∕ _	Is the Sampled Area within	n a Wetland	d? Ye	s No⁄_
_	Yes No _ _ ✓	i			
Wetland Hydrology Present?	· · · · · · · · · · · · · · · · · · ·	If yes, optional Wetland Si	ite iD:		
Remarks: (Explain alternative pro-	cedures here or in a separate report)			
TRC covertype is UPL. Recent rain	1				
HYDROLOGY					
Wotland Hydrology Indicators:					
Wetland Hydrology Indicators:	one is required; check all that apply)		Secondary	Indicators (minimum	of two required)
		(50)	•	e Soil Cracks (B6)	ror two required)
Surface Water (A1)	Water-Stained Lea			ge Patterns (B10)	
High Water Table (A2) Saturation (A3)	Aquatic Fauna (B1 Marl Deposits (B1			rim Lines (B16)	
Saturation (AS) Water Marks (B1)	Mair Deposits (Br Hydrogen Sulfide			ason Water Table (C2))
Sediment Deposits (B2)		neres on Living Roots (C3)	-	h Burrows (C8)	
	<u> </u>		Saturat	tion Visible on Aerial I	magery (C9)
Drift Deposits (B3)	Presence of Redu	ced Iron (C4)	Stunted	d or Stressed Plants (D1)
Algal Mat or Crust (B4)	Recent Iron Reduc	ction in Tilled Soils (C6)		orphic Position (D2)	
Iron Deposits (B5)	Thin Muck Surface			w Aquitard (D3)	
Inundation Visible on Aerial In	nagery (B7) Other (Explain in I	Remarks)	Microto	opographic Relief (D4)
Sparsely Vegetated Concave S	Surface (B8)		FAC-Ne	eutral Test (D5)	
Field Observations:					
Surface Water Present?	'	(inches):	_		
Water Table Present?	Yes No 🟒 Depth	(inches):	Wetland H	lydrology Present?	Yes No ∠
Saturation Present?	Yes No 🟒 Depth	(inches):			
(includes capillary fringe)					
Describe Recorded Data (stream	gauge, monitoring well, aerial photo:	s, previous inspections), if a	available:		<u> </u>
Remarks:					

	Ahsolute	Dominant	Indicator	Dominance Test worksheet:		
<u>Tree Stratum</u> (Plot size: <u>30 ft</u>)		Species?	Status	Number of Dominant Species That	_	
1. Fraxinus pennsylvanica	30	Yes	FACW	Are OBL, FACW, or FAC:	2	(A)
Fagus grandifolia	20	Yes	FACU	Total Number of Dominant Species	5	(D)
3. Acer rubrum	15	Yes	FAC	Across All Strata:		(B)
4.		103	17.0	Percent of Dominant Species That	40	(A/B)
5.				Are OBL, FACW, or FAC:		(A/B)
6.				Prevalence Index worksheet:		
7.				Total % Cover of:	Multiply	By:
/·	65	- Tatal Cau		OBL species 0	x 1 =	0
Couling/Church Church use (Districts 45.5)	- 03	= Total Cov	er	FACW species 30	x 2 =	60
Sapling/Shrub Stratum (Plot size:15 ft)				FAC species 15	x 3 =	45
1.				FACU species 70	x 4 =	280
2				- UPL species 0	x 5 =	0
3				Column Totals 115	(A)	385 (B)
4				Prevalence Index = B/A =	3.3	-
5				Hydrophytic Vegetation Indicators:	<u></u>	
6				1- Rapid Test for Hydrophytic \	/egetation	•
7				2 - Dominance Test is > 50%	regetation	
	0	= Total Cov	er	$3 - Prevalence Index is \le 3.0^{\circ}$		
Herb Stratum (Plot size:5 ft)				4 - Morphological Adaptations	1 (Provido	cupporting
1. Podophyllum peltatum	40	Yes	FACU	data in Remarks or on a separate sh		supporting
2. Parthenocissus quinquefolia	10	Yes	FACU	- Problematic Hydrophytic Vege		(nlain)
3.				Indicators of hydric soil and wetlan		-
4.				present, unless disturbed or proble	-	gy must be
5.				Definitions of Vegetation Strata:	matic	_
6.				Tree – Woody plants 3 in. (7.6 cm) o	r more in	diameter at
7.				breast height (DBH), regardless of h		diameter at
8.				Sapling/shrub – Woody plants less t	_	OBH and
9.				greater than or equal to 3.28 ft (1 m		DIT and
40				Herb – All herbaceous (non-woody)		gardless of
				size, and woody plants less than 3.2		5
11.				Woody vines – All woody vines grea		.28 ft in
12				height.		
	50	= Total Cov	er	Hydrophytic Vegetation Present?	Yes N	do ./
Woody Vine Stratum (Plot size: 30 ft				Trydrophytic Vegetation i resent.	103 1	.o <u>v</u>
1				-		
2				-		
3				-		
4				_		
	0	= Total Cov	er			
Remarks: (Include photo numbers here or on a separat	e sheet.)			_		
	•					

	-	to the de	-			indicato	r or confirm the a	absence of indicators.)
Depth _	Matrix Color (moist)	<u></u> %	Redox			Loc2	Toyturo	Pomarke
(inches) 0 - 14			Color (moist)	<u>%</u>	Type ¹	Loc ²	Texture	Remarks
0 - 14	10YR 4/2	100		_				
		. — -		_				
		·		_				
		·		_				
		·		_				
		. — -		_				
				_				
				_				
				_				
		. — -		_				
				_				
				_				
¹Type: C = C	oncentration, D =	Depletio	n, RM = Reduced	Mati	rix, MS =	Masked	Sand Grains. ² L	Location: PL = Pore Lining, M = Matrix.
Hydric Soil	ndicators:							Indicators for Problematic Hydric Soils ³ :
Histosol			-				R, MLRA 149B)	2 cm Muck (A10) (LRR K, L, MLRA 149B)
	pipedon (A2)		Thin Dark Su					Coast Prairie Redox (A16) (LRR K, L, R)
Black Hi			Loamy Mucky			(LRR K,	-)	5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
	en Sulfide (A4) d Layers (A5)		Loamy Gleye Depleted Ma					Dark Surface (S7) (LRR K, L)
	d Below Dark Surfa	ace (Δ11)	•					Polyvalue Below Surface (S8) (LRR K, L)
	ark Surface (A12)	acc (/ (/ / /	Depleted Dar)		Thin Dark Surface (S9) (LRR K, L)
	lucky Mineral (S1)		Redox Depre			,		Iron-Manganese Masses (F12) (LRR K, L, R)
	ileyed Matrix (S4)				. ,			Piedmont Floodplain Soils (F19) (MLRA 149B)
-	edox (S5)							Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
-	Matrix (S6)							Red Parent Material (F21)
	rface (S7) (LRR R, M	ILRA 149)B)					Very Shallow Dark Surface (TF12) Other (Explain in Remarks)
-	of hydrophytic veg		and wetland hydr	olog	y must b	e preser	it, unless disturbe	ed or problematic.
	ayer (if observed):		Rocks			Ludric	Soil Present?	Voc. No. /
	Type:					пуштс	3011 FTeSerit:	Yes No/_
	Depth (inches):		14					
Remarks:								
1								

Hydrology Photos



Vegetation Photos





Project/Site: Trelina	City/County: Gen	eva, Ontario	Sampling Dat	e: 2019-June-26
Applicant/Owner: NextEra		State: NY	Sampling Point:	: W-NWJ-26; PEM-1
Investigator(s): Nick DeJohn, N	late Jones	Section, Township,	Range:	
Landform (hillslope, terrace, etc.)): Depression	Local relief (concave, conv	ex, none): Concave	Slope (%): 0-1
Subregion (LRR or MLRA):L	.RR L	Lat: 42.870513332	1 Long: -76.979417305	7 Datum: WGS84
Soil Map Unit Name: Cosad lo	amy fine sand		NWI classi	fication:
Are climatic/hydrologic condition	ns on the site typical for this time of ye	ar? Yes No	(If no, explain in Rem	arks.)
Are Vegetation, Soil,	or Hydrology significantly dis		al Circumstances" present	
Are Vegetation, Soil,	or Hydrology naturally probl	ematic? (If needed,	explain any answers in Re	marks.)
SUMMARY OF FINDINGS – A	Attach site map showing sampli	ng point locations, trai	nsects, important feati	ures, etc.
Hydrophytic Vegetation Present	? Yes No			
Hydric Soil Present?	Yes _ ✓ _ No	Is the Sampled Area withi	n a Wetland?	Yes/_ No
•		·		
Wetland Hydrology Present?	Yes No	If yes, optional Wetland S	ite ib.	W-NWJ-26
Remarks: (Explain alternative pr	ocedures here or in a separate report)		
TRC covertype is PEM. Wetter				
HYDROLOGY				
Wetland Hydrology Indicators:				
Primary Indicators (minimum of	one is required; check all that apply)		Secondary Indicators (mir	•
<u>✓</u> Surface Water (A1)	Water-Stained Lea		Surface Soil Cracks (B6	
✓ High Water Table (A2)	_ <u>✓</u> Aquatic Fauna (B1		 Drainage Patterns (B1 Moss Trim Lines (B16)	
✓ Saturation (A3)	Marl Deposits (B1		Dry-Season Water Tab	
Water Marks (B1) Sediment Deposits (B2)	Hydrogen Sulfide	neres on Living Roots (C3)	Crayfish Burrows (C8)	
Sediment Deposits (B2)	Oxidized Kilizospi	ieres on Living Roots (C3)	Saturation Visible on A	
Drift Deposits (B3)	Presence of Redu	ced Iron (C4)	Stunted or Stressed Pl	lants (D1)
Algal Mat or Crust (B4)		ction in Tilled Soils (C6)	Geomorphic Position	
Iron Deposits (B5)	Thin Muck Surface	e (C7)	Shallow Aquitard (D3)	
Inundation Visible on Aerial	Imagery (B7) Other (Explain in F	Remarks)	Microtopographic Reli	ef (D4)
Sparsely Vegetated Concave	Surface (B8)		✓ FAC-Neutral Test (D5)	
Field Observations:				
Surface Water Present?	Yes No Depth	(inches): 3		
Water Table Present?	Yes No Depth	(inches): 0	Wetland Hydrology Prese	nt? Yes No
Saturation Present?	Yes No Depth	(inches): 0		
(includes capillary fringe)				
	n gauge, monitoring well, aerial photo:	s, previous inspections), if	available:	
,		., p		
Remarks:				
nemarks.				

Tree Stratum (Plot size:30 ft)	Absolute	Dominant	Indicator	Dominance Test worksheet:			
1.	% Cover	Species?	Status	Number of Dominant Specie Are OBL, FACW, or FAC:	s That	2	(A)
2.				Total Number of Dominant S	pecies	2	(B)
3.			-	Across All Strata:Percent of Dominant Species	That		
4				- Are OBL, FACW, or FAC:	illat	100	(A/B)
5				Prevalence Index worksheet:	-		
6.				Total % Cover of:	<u>N</u>	Multiply E	<u>Ву:</u>
7				OBL species 5	0 >	x 1 =	50
Couling (Church Churchure (Dich since 45.6)	0	= Total Co	ver	FACW species 1	5 >	x 2 =	30
Sapling/Shrub Stratum (Plot size: 15 ft)				FAC species () >	x 3 =	0
1.				– FACU species () >	x 4 =	0
2.				UPL species () >	x 5 =	0
3.				- Column Totals 6	5	(A)	80 (B)
4.				Prevalence Index =	B/A =	1.2	
5				Hydrophytic Vegetation Indic	ators:		
6.				1- Rapid Test for Hydro		getation	
7				2 - Dominance Test is >			
	0	_= Total Co	ver	3 - Prevalence Index is			
Herb Stratum (Plot size: <u>5 ft</u>)		.,		4 - Morphological Adap	tations¹ (F	Provide s	supporting
1. Juncus effusus	40	Yes	OBL	data in Remarks or on a sepa	arate shee	et)	
2. <i>Phalaris arundinacea</i>	15	Yes	FACW	Problematic Hydrophyt	ic Vegeta	tion¹ (Exp	plain)
3. Alisma triviale	10	No	OBL	 Indicators of hydric soil and 	wetland l	hydrolog	y must be
4				_ present, unless disturbed or	problema	atic	
5				_ Definitions of Vegetation Str	ata:		
6				_ Tree – Woody plants 3 in. (7.6	5 cm) or n	nore in d	liameter at
7				_ breast height (DBH), regardle			
8.				Sapling/shrub - Woody plant			BH and
9				greater than or equal to 3.28			
10				Herb – All herbaceous (non-v		_	ardless of
11				size, and woody plants less t			00 ft :
12				Woody vines – All woody vineheight.	es greater	r than 3.2	28 IL III
	65	= Total Co	ver		.=		
Woody Vine Stratum (Plot size:30 ft)				Hydrophytic Vegetation Pres	sent? Yes	s N	0
1				_			
2				_			
3				_			
4				_			
	0	= Total Co	ver				
Remarks: (Include photo numbers here or on a separat	e sheet.)						
	•						

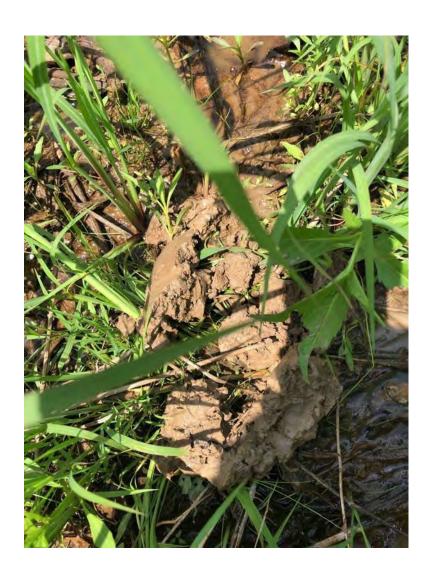
	Matrix Color (moist)	%	Redox Color (moist)	%	Type ¹	Loc ²	Textu	ıre	Remarks
(inches) 0 - 10	10YR 3/2	95	10YR 6/8	5	С	M	Silty Clay		Remarks
		<u> </u>		_					
				_					
		<u> </u>		_					
		<u> </u>		_					
				_					
		<u> </u>		_					
		· — ·		_					
•	Concentration, D = [Depletio	on, RM = Reduced	Mati	rix, MS =	Masked Sar	d Grains. ² Lo	ocation: PL = Pore L	
Histoso	Indicators: l (A1)		Polyvalue Bel	ow S	urface (S	8) (LRR R, M	LRA 149B)		blematic Hydric Soils³:
	oipedon (A2)		Thin Dark Sui						10) (LRR K, L, MLRA 149B) Redox (A16) (LRR K, L, R)
Black Hi			Loamy Mucky			(LRR K, L)			eat or Peat (S3) (LRR K, L, R)
	en Sulfide (A4)		Loamy Gleye					Dark Surface (
	d Layers (A5)	(111	Depleted Mat					Polyvalue Beld	ow Surface (S8) (LRR K, L)
'	d Below Dark Surfa ark Surface (A12)	ce (ATI	Depleted Dar					Thin Dark Sur	
	Mucky Mineral (S1)		Redox Depre					Iron-Mangane	se Masses (F12) (LRR K, L, R)
	Gleyed Matrix (S4)		Redox Depre	33101	13 (1 0)			Piedmont Floo	odplain Soils (F19) (MLRA 149B)
-	Redox (S5)							Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
-								Red Parent Ma	
	d Matrix (S6) irface (S7) (LRR R, M	LRA 14	9B)					-	Dark Surface (TF12)
Indicators	of hydrophytic vege	etation	and wetland hvdr	olog	v must be	e present. u	nless disturbe	Other (Explain d or problematic.	ili Remarks)
	Layer (if observed):		<u> </u>		,			· · · · · · · · · · · · · · · · · · ·	
	Type:		Compaction			Hydric Soil	Present?	Ye	es No
	Depth (inches):	_	10						
temarks:									

Hydrology Photos



Vegetation Photos





Project/Site: Trelina	City/Coun	ty: Geneva, Ontario		Sampling Date:_	2019-June-26
Applicant/Owner: NextEra			State: NY	Sampling Point: V	V-NWJ-26; PFO-1
Investigator(s): Nick DeJohn, N	ate Jones	Secti	on, Township, Range:		
Landform (hillslope, terrace, etc.)	: Depression	Local relief	concave, convex, non	e): Concave	Slope (%): 0-1
Subregion (LRR or MLRA):	RR L	Lat:	42.8707021382 Lo n	g: -76.9794110489	Datum: WGS84
Soil Map Unit Name: Cosad lo	amy fine sand			NWI classific	ation:
Are climatic/hydrologic condition	s on the site typical for this tin	ne of year?	Yes No <u></u> ∠ (If I	no, explain in Remark	s.)
Are Vegetation, Soil,	or Hydrology signific	antly disturbed?	Are "Normal Circur	mstances" present?	Yes No
Are Vegetation, Soil,	or Hydrology natura	lly problematic?	(If needed, explain	any answers in Rema	ırks.)
SUMMARY OF FINDINGS – A	attach site man showing s	sampling point lo	cations, transects.	important feature	es. etc.
		1			
Hydrophytic Vegetation Present	? Yes _ ✓ _ No	i			
Hydric Soil Present?	Yes No	_ Is the Samp	led Area within a Wet	land?	Yes No
Wetland Hydrology Present?	Yes No	If yes, optio	nal Wetland Site ID:	,	W-NWJ-26
Remarks: (Explain alternative pro	ocedures here or in a separate	e report)			
, , , , , , , , , , , , , , , , , , ,					
TRC covertype is PFO. Wetter tha	an average year				
HYDROLOGY					
Wetland Hydrology Indicators:					
Primary Indicators (minimum of	one is required; check all that	apply)	Second	ary Indicators (minim	um of two required)
✓ Surface Water (A1)	Water-Sta	ined Leaves (B9)	Sur	face Soil Cracks (B6)	•
✓ High Water Table (A2)	Water-sta		· 	inage Patterns (B10)	
✓ Saturation (A3)	Marl Depo			ss Trim Lines (B16)	
Water Marks (B1)	· ·	Sulfide Odor (C1)	Dry	-Season Water Table	(C2)
Sediment Deposits (B2)	Oxidized F	Rhizospheres on Livi	ng Roots (C3) — Cra	yfish Burrows (C8)	
seament beposits (b2)		anzosprieres on Ewi	Sati	uration Visible on Aer	ial Imagery (C9)
Drift Deposits (B3)	Presence	of Reduced Iron (C4)	Stu	nted or Stressed Plan	ts (D1)
Algal Mat or Crust (B4)		n Reduction in Tilled		morphic Position (D2	
Iron Deposits (B5)		Surface (C7)		llow Aquitard (D3)	,
Inundation Visible on Aerial I		olain in Remarks)		rotopographic Relief	(D4)
Sparsely Vegetated Concave	· · · · · · · · · · · · · · · · · · ·	Jan III Kemarks)		-Neutral Test (D5)	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Field Observations:	Surface (Do)			-ivedital lest (D3)	
	Van 4 Na	Danth (in ab as).	2		
Surface Water Present?	Yes No	Depth (inches):			
Water Table Present?	Yes No	Depth (inches):	0 Wetlan	d Hydrology Present?	Yes No
Saturation Present?	Yes No	Depth (inches):	0		
(includes capillary fringe)					
Describe Recorded Data (stream	gauge, monitoring well, aeria	al photos, previous ir	spections), if available	: :	
·		, ,,	, ,,		
Remarks:					
I					
I					

	Absolute	Dominant	Indicator	Dominance Test worksheet:		
<u>Tree Stratum</u> (Plot size: <u>30 ft</u>)		Species?	Status	Number of Dominant Species That	_	
1. Acer rubrum	40	Yes	FAC	Are OBL, FACW, or FAC:	4	(A)
2.			1710	Total Number of Dominant Species	4	(D)
3.	-			Across All Strata:	4	(B)
4.	-			Percent of Dominant Species That	100	(A/B)
5	-			Are OBL, FACW, or FAC:		(/ \(\(\(\) \)
6.	-			Prevalence Index worksheet:		
7.				Total % Cover of:	Multiply E	<u>Ву:</u>
··	40	= Total Cov	or	OBL species 0	x 1 =	0
Sapling/Shrub Stratum (Plot size:15 ft)			CI	FACW species 20	x 2 =	40
1. Cornus amomum	20	Yes	FACW	FAC species 65	x 3 =	195
2.		163	FACW	FACU species 0	x 4 =	0
3.				UPL species 0	x 5 =	0
				Column Totals 85	(A)	235 (B)
4				Prevalence Index = B/A =	2.8	
5				Hydrophytic Vegetation Indicators:		
6				1- Rapid Test for Hydrophytic	Vegetation	
7				2 - Dominance Test is >50%		
	20	_= Total Cov	er	\checkmark 3 - Prevalence Index is $\le 3.0^{1}$		
Herb Stratum (Plot size: _5 ft)				4 - Morphological Adaptations	1 (Provide s	supporting
1. Toxicodendron radicans	15	Yes	FAC	data in Remarks or on a separate sl	neet)	
2. Rhamnus cathartica	10	Yes	FAC	Problematic Hydrophytic Vege	etation¹ (Ex	plain)
3				¹ Indicators of hydric soil and wetlar	d hydrolog	gy must be
4				present, unless disturbed or proble	matic	
5				Definitions of Vegetation Strata:		
6.				Tree – Woody plants 3 in. (7.6 cm) o	r more in d	liameter at
7				breast height (DBH), regardless of h	ieight.	
8.				Sapling/shrub – Woody plants less t		BH and
9				greater than or equal to 3.28 ft (1 m		
10				Herb – All herbaceous (non-woody)		ardless of
11				size, and woody plants less than 3.2		
12				Woody vines – All woody vines grea	ter than 3.2	28 ft in
	25	= Total Cov	er	height.		
Woody Vine Stratum (Plot size: 30 ft)				Hydrophytic Vegetation Present?	Yes 🟒 N	0
1						
2.						
3.	<u> </u>					
4.						
	0	= Total Cov	er			
Remarks: (Include photo numbers here or on a separat	o shoot \	_				
Remarks. (include prioto numbers here or on a separat	e srieet.)					

(inches)	Matrix Color (moist)	%	Redox Color (moist)	%	Type ¹	Loc²	Textu	ıre Remarks
0 - 10	10YR 3/1	95	7.5YR 4/6	5	С	M	Silty Clay	
		· — ·		_				
		· — ·		_				
				_				
		_		_				
		· — ·		_				
		_		_				
•	oncentration, D = [Depletio	on, RM = Reduced	Matr	rix, MS =	Masked San	d Grains. ²Lo	ocation: PL = Pore Lining, M = Matrix.
-	ndicators:							Indicators for Problematic Hydric Soils ³ :
Histosol	` '		Polyvalue Bel					2 cm Muck (A10) (LRR K, L, MLRA 149B)
Histic Ep Black Hi	oipedon (A2)		Thin Dark Sui				9B)	Coast Prairie Redox (A16) (LRR K, L, R)
	en Sulfide (A4)		Loamy Gleye			LKK K, L)		5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
	d Layers (A5)		Depleted Mat					Dark Surface (S7) (LRR K, L)
	d Below Dark Surfa	ce (A11						Polyvalue Below Surface (S8) (LRR K, L)
'	ark Surface (A12)		Depleted Dar					Thin Dark Surface (S9) (LRR K, L)
 Sandy N	lucky Mineral (S1)		Redox Depre					Iron-Manganese Masses (F12) (LRR K, L, R)
Sandy G	ileyed Matrix (S4)							Piedmont Floodplain Soils (F19) (MLRA 149B)
-	edox (S5)							Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
-	d Matrix (S6)							Red Parent Material (F21)
	rface (S7) (LRR R, M	LRA 14	9B)					Very Shallow Dark Surface (TF12) Other (Explain in Remarks)
	of hydrophytic vege	etation	and wetland hydr	ology	y must be	present, ur	less disturbed	d or problematic.
	ayer (if observed):		Clay			Lludric Coil	Dracant?	Voc. (No.
	Type:		Clay			Hydric Soil	Present?	Yes No
emarks:	Depth (inches):	_	10					<u> </u>

Hydrology Photos



Vegetation Photos





Project/Site: Trelina	(City/County: Gen	eva, Ontario	Sampling Date: 2019-June-26			
Applicant/Owner: NextEra			State: NY	Sampling Point	t: W-NWJ-26; UPL-1		
Investigator(s): Nick DeJohn, N	ate Jones		Section, Township,	Range:			
Landform (hillslope, terrace, etc.)	: Agricultural Fi	eld	Local relief (concave, conv	ex, none): Flat	Slope (%): 0-1		
Subregion (LRR or MLRA): L	RR L		Lat: 42.870506344	3 Long: -76.979376193	Datum: WGS84		
Soil Map Unit Name: Cosad lo	amy fine sand			NWI class			
Are climatic/hydrologic condition		-		(If no, explain in Rem	ıarks.)		
Are Vegetation, Soil,	or Hydrology			al Circumstances" presen			
Are Vegetation, Soil,	or Hydrology	naturally probl	ematic? (If needed,	explain any answers in Re	emarks.)		
SUMMARY OF FINDINGS - A	ttach site map sh	nowing sampli	ng point locations, trai	nsects, important feat	ures, etc.		
Hydrophytic Vegetation Present	? Yes	No					
Hydric Soil Present?		No <u>_</u> ∠	Is the Sampled Area withi	n a Wetland?	Yes No∕_		
			·		163110		
Wetland Hydrology Present?	Yes	No /	If yes, optional Wetland S	ite ID:			
Remarks: (Explain alternative pro	ocedures here or in a	a separate report)				
TRC covertype is UPL. Recent rai	n						
HYDROLOCY							
HYDROLOGY							
Wetland Hydrology Indicators:							
Primary Indicators (minimum of	one is required; che	ck all that apply)		Secondary Indicators (mi	inimum of two required)		
Surface Water (A1)	1	Water-Stained Lea	aves (B9)	Surface Soil Cracks (E	36)		
High Water Table (A2)		Aquatic Fauna (B1		Drainage Patterns (B	Drainage Patterns (B10)		
Saturation (A3)		Marl Deposits (B1		Moss Trim Lines (B16)		
Water Marks (B1)		Hydrogen Sulfide		•	Dry-Season Water Table (C2)		
Sediment Deposits (B2)	(Oxidized Rhizospł	neres on Living Roots (C3)	Crayfish Burrows (C8			
				Saturation Visible on	Aerial Imagery (C9)		
Drift Deposits (B3)		Presence of Redu		Stunted or Stressed F			
Algal Mat or Crust (B4)			ction in Tilled Soils (C6)		_ Geomorphic Position (D2)		
Iron Deposits (B5)		Thin Muck Surface		Shallow Aquitard (D3			
Inundation Visible on Aerial I		Other (Explain in I	Remarks)	Microtopographic Re			
Sparsely Vegetated Concave	Surface (B8)			FAC-Neutral Test (D5)	<u></u>		
Field Observations:			<i>c</i> 1)				
Surface Water Present?	Yes No	<u>Z</u> Depth	(inches):	-			
Water Table Present?	Yes No	<u>′</u> Depth	(inches):	Wetland Hydrology Pres	ent? Yes No		
Saturation Present?	Yes No	<u>′</u> Depth	(inches):				
(includes capillary fringe)							
Describe Recorded Data (stream	n gauge, monitoring	well, aerial photo	s, previous inspections), if a	available:			
Jestino necordea Jata (sa can	. 84484,	, aca. pa.	s, p. c., oussp cc				
Pomarke:							
Remarks:							

	Absolute	Dominant	Indicator	Dominance Test worksh	eet:		
Tree Stratum (Plot size:30 ft)		Species?	Status	Number of Dominant Sp	ecies That	0	(4)
1.				Are OBL, FACW, or FAC:		0	(A)
2.				Total Number of Domina	ant Species	1	
3.				Across All Strata:		1	(B)
4.				Percent of Dominant Sp	ecies That	0	(A /D)
				Are OBL, FACW, or FAC:			(A/B)
5.				Prevalence Index works	neet:		
6.				Total % Cover of	<u>of:</u>	Multiply	By:
7		 -		OBL species	0	x 1 =	0
	0	= Total Cove	er	FACW species	0	x 2 =	0
Sapling/Shrub Stratum (Plot size: 15 ft)				FAC species	0	x 3 =	0
1				FACU species	60	x 4 =	240
2				UPL species	0	x 5 =	0
3.				Column Totals	60	(A)	240 (B)
4.				_		-	240 (b)
5.				Prevalence Inc	iex = B/A =	4	
6.				Hydrophytic Vegetation			
7.				1- Rapid Test for H	ydrophytic V	egetation	1
/· -		= Total Cove		2 - Dominance Test	t is > 50%		
Hoch Streeture (Blot since 5 ft)		_ TOTAL COVE	:1	3 - Prevalence Inde	$ex is \le 3.0^{1}$		
Herb Stratum (Plot size:5 ft)	60	\/	FACIL	4 - Morphological A	Adaptations ¹	(Provide	supporting
1. Trifolium repens	60	Yes	FACU	data in Remarks or on a	separate sh	eet)	
2				Problematic Hydro	phytic Vege	tation¹ (Ex	kplain)
3				¹ Indicators of hydric soil	and wetlan	d hydrolo	gy must be
4				present, unless disturbe	d or probler	matic	
5				Definitions of Vegetation	n Strata:		
6.				Tree – Woody plants 3 in	n. (7.6 cm) or	more in	diameter at
7.				breast height (DBH), reg			
8.				Sapling/shrub - Woody		_	DBH and
9.				greater than or equal to			
40				Herb – All herbaceous (r			gardless of
				size, and woody plants l			
11.				Woody vines - All woody	vines great	er than 3	.28 ft in
12.				height.			
	60	_= Total Cove	er	Hydrophytic Vegetation	Dracant? \	/oc N	do /
Woody Vine Stratum (Plot size: 30 ft)				Trydrophytic vegetation	i i i e serie:	C3 1	10 <u>v</u>
1							
2							
3							
4							
	0	= Total Cove	er				
Demarks (Include abote numbers here or on a cons	rata sheet \						
Remarks: (Include photo numbers here or on a sepa	rate sneet.)						

Profile Desc Depth	ription: (Describe t Matrix	to the de	epth needed to d Redox			indicato	r or confirm the a	bsence of	indicators.)
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture		Remarks
0 - 12	10YR 4/3	100	Color (Illoist)	70	туре	LUC	Silt Loam		Remarks
0-12	10114/3	100		- —			Silt Loan	<u> </u>	
				- —					
				-					
			_	- —			_		
		· ——		- —					
				- —					
		·							
¹Type: C = C	oncentration, D = I	Depletic	n, RM = Reduced	Mati	rix, MS =	Masked	Sand Grains. ² L	ocation: Pl	= Pore Lining, M = Matrix.
Hydric Soil	ndicators:							Indicator	rs for Problematic Hydric Soils³:
Histosol	(A1)		Polyvalue Be	low S	urface (S	88) (LRR	R, MLRA 149B)	2 cm	Muck (A10) (LRR K, L, MLRA 149B)
Histic Ep	ipedon (A2)		Thin Dark Su	rface	(S9) (LRF	R R, MLR	A 149B)		t Prairie Redox (A16) (LRR K, L, R)
Black Hi			Loamy Muck			(LRR K,	L)		Mucky Peat or Peat (S3) (LRR K, L, R)
	n Sulfide (A4)		Loamy Gleye						Surface (S7) (LRR K, L)
	d Layers (A5)		Depleted Ma					Polyv	value Below Surface (S8) (LRR K, L)
	d Below Dark Surfa irk Surface (A12)	ace (A11	· 			`		Thin	Dark Surface (S9) (LRR K, L)
	lucky Mineral (S1)		Depleted Dar Redox Depre)		Iron-	Manganese Masses (F12) (LRR K, L, R)
-			Redox Depre	55101	15 (ГО)			Piedr	mont Floodplain Soils (F19) (MLRA 149B)
-	leyed Matrix (S4)							Mesi	c Spodic (TA6) (MLRA 144A, 145, 149B)
-	edox (S5)							Red F	Parent Material (F21)
	Matrix (S6)	41 DA 14	nn.					Very	Shallow Dark Surface (TF12)
Dark Su	rface (S7) (LRR R, W	ILKA 14	96)					Othe	r (Explain in Remarks)
3Indicators	of hydrophytic veg	etation	and wetland hydr	olog	y must b	e preser	nt, unless disturbe	ed or probl	ematic.
Restrictive I	.ayer (if observed):								
	Type:	(Compaction			Hydric	Soil Present?		Yes No⁄_
	Depth (inches):		12	-					
Remarks:	•	-							
Observed s	oil compaction was	due to	agricultural activ	ities.					

Vegetation Photos



Soil Photos



Project/Site: Trelina	City/Co	ounty: Geneva, Ontario		Sampling Dat	te: 2019-June-26		
Applicant/Owner: NextEra			State: NY	Sampling Point:	W-NWJ-27; PEM-1		
Investigator(s): Nick DeJohn,	Nate Jones	Secti	on, Township,	Range:			
Landform (hillslope, terrace, etc	c.): Depression	Local relief (concave, conve	ex, none): Concave	Slope (%): 0-1		
Subregion (LRR or MLRA):	LRR L	Lat:	42.8704329534	Long: -76.979349777	2 Datum: WGS84		
Soil Map Unit Name: Cosad	oamy fine sand			NWI classi	fication:		
Are climatic/hydrologic condition	• •	•		(If no, explain in Rema			
Are Vegetation, Soil				ll Circumstances" present?			
Are Vegetation, Soil	, or Hydrology natu	urally problematic?	(If needed,	explain any answers in Re	marks.)		
SUMMARY OF FINDINGS -	Attach site map showin	g sampling point lo	cations, tran	sects, important featu	ıres, etc.		
Hydrophytic Vegetation Preser	nt? Yes 🟒 No						
Hydric Soil Present?	Yes <u></u> ✓ No	i	led Area withir	n a Wetland?	Yes No		
•		i					
Wetland Hydrology Present?	Yes No _		nal Wetland Si	te iD.	W-NWJ-27		
Remarks: (Explain alternative p	rocedures here or in a sepa	rate report)					
TRC covertype is PEM. Wetter t	:han average year						
HYDROLOGY							
Wetland Hydrology Indicators:							
Primary Indicators (minimum		hat apply)		Secondary Indicators (mir	nimum of two required)		
•	•			Surface Soil Cracks (B6	•		
✓ Surface Water (A1)		Stained Leaves (B9) c Fauna (B13)			_ Drainage Patterns (B10)		
✓ High Water Table (A2)✓ Saturation (A3)	· ·	eposits (B15)		Moss Trim Lines (B16)			
Water Marks (B1)		gen Sulfide Odor (C1)		_ Dry-Season Water Table (C2)			
Sediment Deposits (B2)		ed Rhizospheres on Livir	ng Roots (C3)	Crayfish Burrows (C8)			
5-46.16 5-69-55.65 (52)	5/114126	24 TUILES PITE ES ST 2.TH	.8 (23)	Saturation Visible on A	Visible on Aerial Imagery (C9)		
Drift Deposits (B3)	Presen	ce of Reduced Iron (C4)	uced Iron (C4) Stunted or Stressed Plants (D1)				
Algal Mat or Crust (B4)			iction in Tilled Soils (C6) Geomorphic Position (D2)				
Iron Deposits (B5)	Thin M	uck Surface (C7)		Shallow Aquitard (D3)			
Inundation Visible on Aeria	l Imagery (B7) Other (Explain in Remarks)		Microtopographic Reli	ef (D4)		
Sparsely Vegetated Concav	e Surface (B8)			✓ FAC-Neutral Test (D5)			
Field Observations:							
Surface Water Present?	Yes No	Depth (inches):	2				
Water Table Present?	Yes No	Depth (inches):	0	 Wetland Hydrology Prese	nt? Yes No		
Saturation Present?	Yes _ ✓ No	Depth (inches):	0	, , , , , , , , , , , , , , , , , , , ,	_ _		
	162 <u>√</u> NO	Deptil (iliches):					
(includes capillary fringe)							
Describe Recorded Data (strea	m gauge, monitoring well, a	erial photos, previous in	spections), if a	vailable:			
Remarks:							

	•• • • •	<u> </u>		Daminanaa Taat wadah					
<u>Tree Stratum</u> (Plot size: <u>30 ft</u>)		Dominant		Dominance Test worksh					
	% Cover	Species?	Status	Number of Dominant Sp Are OBL, FACW, or FAC:	ecies mai	2	(A)		
1				Total Number of Domina	ant Spacias				
2				Across All Strata:	ant species	2	(B)		
3				Percent of Dominant Sp	ecies That				
4				- Are OBL, FACW, or FAC:	ccics mac	100	(A/B)		
5				Prevalence Index worksl	neet:				
6.				- Total % Cover of		Multiply E	Bv:		
7				- OBL species	95	x 1 =	95		
	0	= Total Cov	er	FACW species	0	x 2 =	0		
Sapling/Shrub Stratum (Plot size:15 ft)				FAC species	0	x3=	0		
1				FACU species	0	x 4 =	0		
2.				<u> </u>		_			
3.				- UPL species	0	x 5 = _	0		
4.				Column Totals	95	(A)	95 (B)		
5.				Prevalence Inc	lex = B/A =	1			
6.				Hydrophytic Vegetation	Indicators:				
7.				1- Rapid Test for H	/drophytic V	egetation			
/·	0	= Total Cov	or	2 - Dominance Test	is >50%				
Herb Stratum (Plot size: _ 5 ft)		_ 10tal COV	CI	_✓_ 3 - Prevalence Inde	x is ≤ 3.0^{1}				
1. Carex vulpinoidea	35	Yes	OBL	4 - Morphological A	daptations ¹	(Provide s	supporting		
				- data in Remarks or on a	separate sh	ieet)			
2. Persicaria amphibia	25	Yes	OBL	- Problematic Hydro	phytic Veget	tation¹ (Exp	olain)		
3. Lythrum salicaria	15	No No	OBL	 Indicators of hydric soil and wetland hydrology must be 					
4. Typha latifolia	10	No	OBL	present, unless disturbe	d or probler	matic			
5. <u>Alisma triviale</u>	10	<u>No</u>	OBL	Definitions of Vegetation Strata:					
6				Tree – Woody plants 3 in			liameter at		
7				breast height (DBH), reg					
8.				Sapling/shrub - Woody			BH and		
9				greater than or equal to					
10				Herb – All herbaceous (r			ardless of		
11				size, and woody plants l					
12.				Woody vines – All woody	vines great	er than 3.2	28 ft in		
	95	= Total Cov	er	height.					
Woody Vine Stratum (Plot size:30 ft)		_		Hydrophytic Vegetation	Present? \	∕es <u> </u>	0		
1.									
2.				=					
3.				-					
4.				-					
	0	= Total Cov	er	-					
			C1						
Remarks: (Include photo numbers here or on a separat	e sheet.)								

inches) Colo	r (moist)	%	Color (moist)	%	Type ¹	Loc ²	Text	ture	Remarks
		95	10YR 6/8	5		M	M Sandy Clay Loam		
	·			_ _ _					
				_ _ _					
				_ _ _					
		pletio	n, RM = Reduced	Mat	rix, MS =	Masked :	Sand Grains. ² Lo	ocation: PL = Pore Li	•
dric Soil Indicato Histosol (A1)	rs:		Polyvalue Bel					Indicators for Prob	olematic Hydric Soils³:
_ Thick Dark Surfa _ Sandy Mucky M _ Sandy Gleyed M _ Sandy Redox (S: _ Stripped Matrix _ Dark Surface (S:	le (A4) 5 (A5) Dark Surface ace (A12) ineral (S1) latrix (S4) 5) (S6) 7) (LRR R, MLR	(A11)		y Mir d Ma trix (l Surfa rk Su ession	neral (F1) trix (F2) F3) ce (F6) rface (F7) ns (F8)	(LRR K, L)	Coast Prairie R 5 cm Mucky Pe Dark Surface (S Polyvalue Belo Thin Dark Surf Iron-Manganes Piedmont Floo Mesic Spodic (w Surface (S8) (LRR K, L) ace (S9) (LRR K, L) se Masses (F12) (LRR K, L, R) dplain Soils (F19) (MLRA 149B) TA6) (MLRA 144A, 145, 149B) iterial (F21) bark Surface (TF12)
estrictive Layer (if		itionic	and Welland nyul	olog	y must be	present	i, uriless disturbe	d of problematic.	
Type: Depth (Clay 10			Hydric 9	Soil Present?	•	Yes/_ No
emarks:									

Hydrology Photos



Vegetation Photos





Project/Site: Trelina	City/County: Ge	eneva, Ontario	Sampling Date: 2019-June-27			
Applicant/Owner: NextEra		State: NY	Sampling Point: V	V-NWJ-27; PFO-1		
Investigator(s): Nick DeJohn, N	ate Jones	Section, Township,	Range:			
Landform (hillslope, terrace, etc.)		Local relief (concave, conv		Slope (%): 0-1		
<u> </u>	RR L		5 Long: -76.9793697408	Datum: WGS84		
	oamy fine sand, 1 to 6 percent slope		NWI classifica			
	is on the site typical for this time of y		✓ (If no, explain in Remark	S.)		
Are Vegetation, Soil,	or Hydrology significantly o		al Circumstances" present?	Yes No		
Are Vegetation, Soil,	or Hydrology naturally pro	blematic? (If needed,	explain any answers in Rema	arks.)		
SUMMARY OF FINDINGS – A	Attach site map showing samp	ling point locations, trar	nsects, important feature	es, etc.		
Hydrophytic Vegetation Present	? Yes _ 🗸 No					
Hydric Soil Present?	Yes No	Is the Sampled Area withi	n a Wetland?	Yes No		
		·				
Wetland Hydrology Present?	Yes No	If yes, optional Wetland Si	te iD:	W-NWJ-27		
Remarks: (Explain alternative pr	ocedures here or in a separate repo	rt)				
TRC covertype is PFO. Wetter tha	an average vear					
The coverage is the or treater and	an average year					
HYDROLOGY						
Wetland Hydrology Indicators:						
Primary Indicators (minimum of	one is required; check all that apply	Ù	Secondary Indicators (minim	num of two required)		
∕ Surface Water (A1)	Water-Stained L	eaves (B9)	Surface Soil Cracks (B6)			
✓ High Water Table (A2)	Aquatic Fauna (l		Drainage Patterns (B10)			
✓ Saturation (A3)	Marl Deposits (E		Moss Trim Lines (B16)			
Water Marks (B1)	Hydrogen Sulfid	e Odor (C1)	Dry-Season Water Table (C2)			
Sediment Deposits (B2)	Oxidized Rhizos	pheres on Living Roots (C3)	Crayfish Burrows (C8)			
			Saturation Visible on Aer	ial Imagery (C9)		
Drift Deposits (B3)	Presence of Red	uced Iron (C4)	Stunted or Stressed Plants (D1)			
Algal Mat or Crust (B4)	Recent Iron Red	uction in Tilled Soils (C6)	Geomorphic Position (D2)			
Iron Deposits (B5)	Thin Muck Surfa	ice (C7)	Shallow Aquitard (D3)			
Inundation Visible on Aerial I	Imagery (B7) Other (Explain ir	n Remarks)	Microtopographic Relief ((D4)		
Sparsely Vegetated Concave	Surface (B8)		FAC-Neutral Test (D5)			
Field Observations:						
Surface Water Present?	Yes No Dept	th (inches): 3				
Water Table Present?	Yes No Dept	:h (inches): 0	Wetland Hydrology Present?	Yes No		
Saturation Present?		th (inches):				
	res _ / _ NO Dept	in (inches).				
(includes capillary fringe)						
Describe Recorded Data (stream	n gauge, monitoring well, aerial phot	os, previous inspections), if a	available:			
Remarks:						
The state of the s						

	Absolute	Dominant	Indicator	Dominance Test worksheet:		
<u>Tree Stratum</u> (Plot size: <u>30 ft</u>)	% Cover	Species?	Status	Number of Dominant Species That	3	(A)
1. Populus deltoides	50	Yes	FAC	Are OBL, FACW, or FAC:		(A)
2. Acer rubrum	20	Yes	FAC	Total Number of Dominant Species	3	(B)
3.				Across All Strata:		
4.				Percent of Dominant Species That	100	(A/B)
5.				Are OBL, FACW, or FAC:		
6.				Prevalence Index worksheet: Total % Cover of:	N.A. Jaimha I	D
7.	<u> </u>			OBL species 0	$\frac{\text{Multiply I}}{\times 1} =$	<u>ьу.</u> О
	70	= Total Cove	er	FACW species 0	x 1 = _	0
Sapling/Shrub Stratum (Plot size: 15 ft)	·	_		FAC species 100	x3=	300
1				FACU species 0	x 4 =	0
2.				UPL species 0	x 5 =	0
3.				Column Totals 100	_	
4.	<u> </u>				(A) _	300 (B)
5.					3	
6.				Hydrophytic Vegetation Indicators:		
7.				1- Rapid Test for Hydrophytic V	/egetation	
	0	= Total Cove	er	2 - Dominance Test is >50%		
<u>Herb Stratum</u> (Plot size: <u>5 ft</u>)		_		3 - Prevalence Index is ≤ 3.0¹	l (Duran dalar)	
1. Toxicodendron radicans	30	Yes	FAC	4 - Morphological Adaptations' data in Remarks or on a separate sh		supporting
2.				Problematic Hydrophytic Vege		nlain)
3.				¹Indicators of hydric soil and wetlan		
4.				present, unless disturbed or proble	, .	sy must be
5.				Definitions of Vegetation Strata:		
6.				Tree – Woody plants 3 in. (7.6 cm) or	r more in c	liameter at
7.				breast height (DBH), regardless of h		
8.				Sapling/shrub – Woody plants less t		BH and
9.				greater than or equal to 3.28 ft (1 m		
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 great	ter than 3.	28 ft in
	30	= Total Cove	er	height.		
Woody Vine Stratum (Plot size: 30 ft)		=		Hydrophytic Vegetation Present?	Yes <u> </u>	0
1.						
2.				-		
3.				-		
4.				-		
	0	= Total Cove	er	-		
		-				
Remarks: (Include photo numbers here or on a separat	e sneet.)					

Profile Description: (Description: Depth Matrix		depth needed to d			ndicato	r or confirm the a	bsence of indicators	5.)
(inches) Color (moist		Color (moist)	%	Type ¹	Loc ²	Tex	ture	Remarks
0 - 9 10R 3/1	96	7.5YR 5/8	4	С	<u>M</u>		lay Loam	TOTAL STATE OF THE
	 		- — - — - —					
	 		- — - — - —		<u></u>			
¹Type: C = Concentration, D) = Depleti	on, RM = Reduced	Mat	rix, MS =	Masked	Sand Grains. ² L	ocation: PL = Pore L	•
Hydric Soil Indicators:							Indicators for Pro	blematic Hydric Soils³:
Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark St Thick Dark Surface (A12 Sandy Mucky Mineral (S Sandy Gleyed Matrix (S- Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR F	2) 51) 4) R, MLRA 14	Thin Dark Su Loamy Muck Loamy Gleye Depleted Ma 1) Redox Dark S Depleted Da Redox Depre	rface y Mir d Ma trix (I Surfa rk Su essior	(S9) (LRR eral (F1) trix (F2) F3) ce (F6) cface (F7) ns (F8)	R, MLR.	L)	Coast Prairie I 5 cm Mucky P Dark Surface (Polyvalue Beld Thin Dark Sur Iron-Mangane Piedmont Flod Mesic Spodic (Red Parent M. Very Shallow I	ow Surface (S8) (LRR K, L) face (S9) (LRR K, L) se Masses (F12) (LRR K, L, R) odplain Soils (F19) (MLRA 149B) (TA6) (MLRA 144A, 145, 149B) aterial (F21) Dark Surface (TF12)
³ Indicators of hydrophytic	_	and wetland hyd	rolog	y must be	preser	nt, unless disturbe	d or problematic.	
Restrictive Layer (if observe	ed):							
Type:		Refusal	_		Hydric	Soil Present?		Yes No
Depth (inches):		9						
Remarks: Due to inundation a clear s	oil profile	was unobtainable	e. Soil	s are assu	umed to	be hydric.		

Hydrology Photos



Vegetation Photos





Project/Site: Trelina	(City/County: Gen	eva, Ontario	Sampling Date: 2019-June-26			
Applicant/Owner: NextEra			State: NY	Sampling Poin	nt: W-NWJ-27; UPL-1		
Investigator(s): Nick DeJohn, N	ate Jones		Section, Township,	Range:			
Landform (hillslope, terrace, etc.)	: Agricultural Fig	eld	Local relief (concave, conv	ex, none): Flat	Slope (%): 0-1		
Subregion (LRR or MLRA): L	RR L		Lat: 42.870485471	2 Long: -76.97944721	8 Datum: WGS84		
Soil Map Unit Name: Cosad lo	amy fine sand				sification:		
Are climatic/hydrologic condition				✓ (If no, explain in Rer	narks.)		
Are Vegetation, Soil,	or Hydrology			al Circumstances" preser			
Are Vegetation, Soil,	or Hydrology	naturally probl	ematic? (If needed,	explain any answers in R	emarks.)		
SUMMARY OF FINDINGS – A	ttach site map sh	nowing sampli	ng point locations, trar	nsects, important fea	tures, etc.		
Hydrophytic Vegetation Present	? Yes	No / _					
Hydric Soil Present?		No/	Is the Sampled Area withi	n a Wetland?	Yes No ∠		
			i		165 110		
Wetland Hydrology Present?		No / _	If yes, optional Wetland S	ite iD:	<u> </u>		
Remarks: (Explain alternative pro	ocedures here or in a	separate report					
TRC covertype is UPL. Recent rai	n						
HYDROLOGY							
HIDROLOGI							
Wetland Hydrology Indicators:							
Primary Indicators (minimum of	one is required; che	ck all that apply)		Secondary Indicators (m	inimum of two required)		
Surface Water (A1)	V	Vater-Stained Lea					
High Water Table (A2)		Aquatic Fauna (B1	3)	•	_ Drainage Patterns (B10)		
Saturation (A3)	N	Marl Deposits (B1	5)		Moss Trim Lines (B16)		
Water Marks (B1)	H	Hydrogen Sulfide	Odor (C1)	•	ry-Season Water Table (C2)		
Sediment Deposits (B2)	(Oxidized Rhizosph	neres on Living Roots (C3)	•	Crayfish Burrows (C8)		
	_			Saturation Visible on			
Drift Deposits (B3)		Presence of Redu			Stunted or Stressed Plants (D1)		
Algal Mat or Crust (B4)			tion in Tilled Soils (C6)		Geomorphic Position (D2)		
Iron Deposits (B5) Inundation Visible on Aerial I		Thin Muck Surface Other (Explain in I		Shallow Aquitard (D3Microtopographic Re			
Sparsely Vegetated Concave		otilei (Explaiii iii i	(emarks)	FAC-Neutral Test (D5			
Field Observations:	Juliace (Do)			FAC-Neutral lest (DS	1		
Surface Water Present?	Voc. No. 4	Donth	(in shos):				
	Yes No	•	(inches):	.			
Water Table Present?	Yes No _ _	Depth	(inches):	Wetland Hydrology Pres	sent? Yes No		
Saturation Present?	Yes No _ _ /	_ Depth	(inches):				
(includes capillary fringe)							
Describe Recorded Data (stream	gauge, monitoring v	well, aerial photo	s, previous inspections), if a	available:			
		•					
Remarks:							
Remarks.							

·				Di			
<u>Tree Stratum</u> (Plot size: <u>30 ft</u>)		Dominant		Dominance Test worksh			
	% Cover	Species?	Status	Number of Dominant S Are OBL, FACW, or FAC:		0	(A)
1				Total Number of Domin			
2				Across All Strata:	ant species	1	(B)
3				Percent of Dominant Sp	acies That		
4				Are OBL, FACW, or FAC:		0	(A/B)
5				Prevalence Index works			
6				Total % Cover		Multiply	Bv.
7				OBL species	0	x 1 =	_
	0	= Total Cove	r	FACW species	0	x 2 =	0
Sapling/Shrub Stratum (Plot size: 15 ft)				FAC species	0	x3=	0
1				FACU species		-	
2				<u> </u>	40	x 4 =	160
3.				UPL species	0	x 5 =	0
4.				Column Totals	40	(A)	160 (B)
5.				Prevalence In	dex = B/A =	4	
6.				Hydrophytic Vegetation	Indicators:		
7.				1- Rapid Test for H	ydrophytic V	egetatior/	ו
/·		- Total Cause		2 - Dominance Tes	st is > 50%		
		= Total Cove	r	3 - Prevalence Inde	ex is $\leq 3.0^1$		
Herb Stratum (Plot size: <u>5 ft</u>)	40		E4.611	4 - Morphological	Adaptations ¹	(Provide	supporting
1. Trifolium repens	40	Yes	FACU	data in Remarks or on a	separate sh	eet)	
2				Problematic Hydro	ophytic Veget	tation¹ (E	xplain)
3				¹Indicators of hydric soi	l and wetlan	d hydrolo	gy must be
4				present, unless disturbe	ed or probler	matic	
5.				Definitions of Vegetatio	n Strata:		
6				Tree – Woody plants 3 is	n. (7.6 cm) or	more in	diameter at
7				breast height (DBH), reg	gardless of h	eight.	
8.				Sapling/shrub - Woody	plants less tl	han 3 in. I	DBH and
9.				greater than or equal to			
10.				Herb – All herbaceous (-		gardless of
11.				size, and woody plants	less than 3.2	8 ft tall.	
12.				Woody vines – All wood	y vines great	er than 3	.28 ft in
	40	= Total Cove	r	height.			
Woody Vine Stratum (Plot size: 30 ft)		_	•	Hydrophytic Vegetation	n Present? \	/es N	Vo <u> </u>
1							
2.							
3.							
4		Tatal Carre					
	0	= Total Cove	!r				
Remarks: (Include photo numbers here or on a sepa	rate sheet.)						

Daniela Matrica	e to the de	-			ndicator or co	onfirm the abse	nce of indicators.)
Depth Matrix			Feature			- .	
(inches) Color (moist)		Color (moist)	<u>% T</u>	ype¹	Loc ²	Texture	Remarks
0 - 14 10YR 4/3	100					Silt Loam	
			· — —				
<u> </u>							
-							
-							
Tunas C = Consentration D		p DM = Doducod	Matrix	NAC - N	Asslead Cand	Crains 21 ass	tions DI - Doro Lining M - Matrix
Type: C = Concentration, D	- pebierio	ii, Kivi – Keduced	ıvıati iX,	- CIVI	viaskeu sailu		tion: PL = Pore Lining, M = Matrix.
Hydric Soil Indicators:		Dala I a), (I DD D 1		dicators for Problematic Hydric Soils³:
Histosol (A1)		Polyvalue Be					_ 2 cm Muck (A10) (LRR K, L, MLRA 149B)
Histic Epipedon (A2)		Thin Dark Su					_ Coast Prairie Redox (A16) (LRR K, L, R)
Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2)						_ 5 cm Mucky Peat or Peat (S3) (LRR K, L, R)	
Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Stratified Layers (A5) Depleted Matrix (F3)							_ Dark Surface (S7) (LRR K, L)
Stratified Layers (A5) Depleted Below Dark Sui	face (A11			F6)			_ Polyvalue Below Surface (S8) (LRR K, L)
Thick Dark Surface (A12)	race (7111)	Depleted Dark		-			_ Thin Dark Surface (S9) (LRR K, L)
Sandy Mucky Mineral (S1)	Redox Depre				_	_ Iron-Manganese Masses (F12) (LRR K, L, R)
Sandy Gleyed Matrix (S4		Redox Bepre	3310113 (1	0,			_ Piedmont Floodplain Soils (F19) (MLRA 149B)
Sandy Redox (S5)						_	_ Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
Stripped Matrix (S6)						_	_ Red Parent Material (F21)
Stripped Matrix (36) Dark Surface (S7) (LRR R,	MIDA 140)D)					_ Very Shallow Dark Surface (TF12)
Dark Surface (37) (LKK K,	WILKA 14:	76)				_	_ Other (Explain in Remarks)
Indicators of hydrophytic ve	getation	and wetland hydr	ology m	ust be	present, unl	ess disturbed o	r problematic.
Restrictive Layer (if observed	l):						
Type:	F	tocks/gravel			Hydric Soil F	resent?	Yes No
Depth (inches):		14					

Vegetation Photos



Soil Photos



Project/Site: Trelina	City/County: Gen	neva, Ontario	Sampling Date: 2019-June-26			
Applicant/Owner: NextEra		State: NY		Sampling Point: W-N	WJ-28; PEM-1	
Investigator(s): Nick DeJohn, N	late Jones	Section, Township,	Range:			
Landform (hillslope, terrace, etc.)): Depression	Local relief (concave, conv	ex, none):_	Concave	Slope (%): 0-1	
Subregion (LRR or MLRA): L	LRR L	Lat: 42.870478791	7 Long:	-76.9793704371	Datum: WGS84	
Soil Map Unit Name: Cosad lo	pamy fine sand	-		NWI classification	on:	
Are climatic/hydrologic condition	ns on the site typical for this time of ye	ear? Yes No	_ ∠ (If no,	explain in Remarks.)		
Are Vegetation, Soil,	or Hydrology significantly di	sturbed? Are "Norm	al Circumst	ances" present?	Yes No	
Are Vegetation, Soil,	or Hydrology naturally prob	lematic? (If needed,	explain any	y answers in Remarks	5.)	
SUMMARY OF FINDINGS – A	Attach site map showing sampli	ng point locations, trai	nsects, im	portant features,	etc.	
Hydrophytic Vegetation Present	:? Yes _ ✓ _ No					
Hydric Soil Present?	Yes _ No	Is the Sampled Area withi	in a Wetland	d? Yes	No	
_		i				
Wetland Hydrology Present?	Yes No	If yes, optional Wetland S	ite iD:	<u>VV-I</u>	NWJ-28	
Remarks: (Explain alternative pr	ocedures here or in a separate report	t)				
TRC covertype is PEM. Wetter th	ian average year					
HYDROLOGY						
Wetland Hydrology Indicators:						
Primary Indicators (minimum of	f one is required; check all that apply)		-	/ Indicators (minimum	n of two required)	
<u>✓</u> Surface Water (A1)	Water-Stained Lea			e Soil Cracks (B6)		
<u>✓</u> High Water Table (A2)	Aquatic Fauna (B1			ge Patterns (B10)		
✓ Saturation (A3)	Marl Deposits (B1			Moss Trim Lines (B16) Dry-Season Water Table (C2)		
Water Marks (B1)	Hydrogen Sulfide		-	ayfish Burrows (C8)		
Sediment Deposits (B2)	Oxidized knizospi	heres on Living Roots (C3)		Saturation Visible on Aerial Imagery (C9)		
Drift Deposits (B3)	Presence of Redu	ced Iron (C4)		d or Stressed Plants (
✓ Algal Mat or Crust (B4)		ction in Tilled Soils (C6)		orphic Position (D2)	D1)	
Iron Deposits (B5)	Thin Muck Surface			hallow Aquitard (D3)		
Inundation Visible on Aerial				opographic Relief (D4	.)	
Sparsely Vegetated Concave	Surface (B8)		FAC-Ne	eutral Test (D5)		
Field Observations:						
Surface Water Present?	Yes 🟒 No Depth	(inches): 2				
Water Table Present?	Yes No Depth	(inches): 0	Wetland H	lydrology Present?	Yes _ ✓ _ No	
Saturation Present?		(inches): 0	=			
(includes capillary fringe)			=			
	n gauge, monitoring well, aerial photo	s provious inspections) if	available.			
Describe Recorded Data (stream	rigauge, monitoring well, aeriai prioto	s, previous irispections), ir	avallable.			
Remarks:						

•				<u> </u>			
Tree Stratum (Plot size:30 ft)		Dominant		Dominance Test worksh			
	% Cover	Species?	Status	Number of Dominant Sp	pecies That	1	(A)
1				Are OBL, FACW, or FAC:	+ Ci		
2				Total Number of Domin Across All Strata:	ant Species	1	(B)
3					acias That		
4				Percent of Dominant Sp Are OBL, FACW, or FAC:	ecies mai	100	(A/B)
5				Prevalence Index works	hoot:		
6				Total % Cover		Multiply E). <i>p</i>
7.				OBL species	40	x 1 =	y. 40
	0	= Total Cove	er	FACW species	0	_	0
Sapling/Shrub Stratum (Plot size:15 ft)		_		_ · _		x 2 =	
1				FAC species	0	x 3 =	0
2.				FACU species	0	x 4 =	0
3.				UPL species	0	x 5 =	0
4.				Column Totals	40	(A)	40 (B)
5.				Prevalence In	dex = B/A =	1	
-				Hydrophytic Vegetation	Indicators:		
6				1- Rapid Test for H	ydrophytic V	egetation	
7				✓ 2 - Dominance Tes		J	
	0	_= Total Cove	er	3 - Prevalence Inde			
<u>Herb Stratum</u> (Plot size: <u>5 ft</u>)				4 - Morphological		(Provide s	unnorting
1. Ranunculus sceleratus	40	Yes	OBL	data in Remarks or on a			.appo8
2				Problematic Hydro			olain)
3.				¹Indicators of hydric soi			
4.				present, unless disturbe			,,
5.				Definitions of Vegetation			
6.				Tree – Woody plants 3 in		more in d	iameter at
7.	_			breast height (DBH), reg			idiffeter de
8.				Sapling/shrub - Woody			BH and
9.				greater than or equal to			Di i di id
				Herb – All herbaceous (i			ardless of
10				size, and woody plants l			araicss or
11				Woody vines – All wood			28 ft in
12				height.	, 8. ca.		
	40	_= Total Cove	er	1	. Dunnam#2 \	/aa / Ni	
Woody Vine Stratum (Plot size: 30 ft)				Hydrophytic Vegetation	i Present?	res No	0
1							
2							
3.							
4.							
	0	= Total Cove	er				
		=					
Remarks: (Include photo numbers here or on a separa	ate sheet.)						

	-	o the d	epth needed to d			indicator	or confirm the a	absence of indicators	.)
Depth _	Matrix						-		
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type ¹	Loc ²		xture	Remarks
0 - 20	10YR 3/2	95	10YR 5/8	5	C	M	Sandy (Clay Loam	
		. —							
				_					
				_					
		_		_					
		-		_					_
1Type: C = C	oncentration D = [Denleti	on RM = Reduced	Mat	rix MS =	Masked	Sand Grains 21	Location: PL = Pore Li	ining M = Matrix
Hydric Soil I		Jepietii	on, Kivi – Keducec	iviat	IIX, IVIJ –	Masked	Sana Grains. I		olematic Hydric Soils³:
,			Daharahia Da	۰ ۲		:0\ (I DD F	MI DA 140D)		•
Histosol	ipedon (A2)		Polyvalue Be Thin Dark Su		-		•		0) (LRR K, L, MLRA 149B)
Black Hi			Loamy Muck						ledox (A16) (LRR K, L, R)
	en Sulfide (A4)		Loamy Gleye	•		(LIXIX IX, L	,	•	eat or Peat (S3) (LRR K, L, R)
	d Layers (A5)		Depleted Ma					Dark Surface (
	d Below Dark Surfa	ce (A11							w Surface (S8) (LRR K, L)
	irk Surface (A12)	•	Depleted Da)		Thin Dark Surf	
	lucky Mineral (S1)		Redox Depre					•	se Masses (F12) (LRR K, L, R)
Sandy G	leyed Matrix (S4)		·						dplain Soils (F19) (MLRA 149B)
_	edox (S5)							•	TA6) (MLRA 144A, 145, 149B)
_	Matrix (S6)							Red Parent Ma	
	rface (S7) (LRR R, M	ILRA 14	.9B)						Park Surface (TF12)
	(, (,,		,					Other (Explain	in Remarks)
3Indicators	of hydrophytic vege	etation	and wetland hyd	rolog	y must b	e presen	t, unless disturb	ed or problematic.	
Restrictive L	.ayer (if observed):								
	Туре:		None			Hydric	Soil Present?	,	Yes No
	Depth (inches):								
Remarks:						•			

Hydrology Photos



Vegetation Photos





Project/Site: Trelina	City/County: Ger	neva, Ontario	Sampling Date: 2019-June-26			
Applicant/Owner: NextEra		State: NY		Sampling Point: W-N	WJ-28; PFO-1	
Investigator(s): Nick DeJohn, I	Nate Jones	Section, Township,	Range:			
Landform (hillslope, terrace, etc): Depression	Local relief (concave, conv	ex, none):_	Concave	Slope (%): 0-1	
Subregion (LRR or MLRA):	LRR L	Lat: 42.870598537	'9 Long:	-76.9793548063	Datum: WGS84	
Soil Map Unit Name: Cosad le	oamy fine sand			NWI classification	on:	
Are climatic/hydrologic conditio	ns on the site typical for this time of ye	ear? Yes No	_ ∠ (If no,	explain in Remarks.)		
Are Vegetation, Soil,	or Hydrology significantly di	sturbed? Are "Norm	al Circumst	ances" present?	Yes No	
Are Vegetation, Soil,	or Hydrology naturally prob	lematic? (If needed,	explain any	y answers in Remarks	i.)	
SUMMARY OF FINDINGS -	Attach site map showing sampli	ng point locations, trar	nsects, im	portant features,	etc.	
Hydrophytic Vegetation Presen	it? Yes/_ No					
Hydric Soil Present?	Yes _ No	Is the Sampled Area withi	in a Wetland	d? Yes	No	
•		i				
Wetland Hydrology Present?	Yes No	If yes, optional Wetland S	ite ib.	<u>VV-I</u>	NWJ-28	
Remarks: (Explain alternative p	rocedures here or in a separate report	t)				
TRC covertype is PFO. Wetter th	ian average year					
HYDROLOGY						
Wetland Hydrology Indicators:						
Primary Indicators (minimum o	of one is required; check all that apply)		•	/ Indicators (minimum	of two required)	
∕_ Surface Water (A1)	Water-Stained Le			e Soil Cracks (B6)		
<u>✓</u> High Water Table (A2)	Aquatic Fauna (B´			ge Patterns (B10)		
✓ Saturation (A3)	Marl Deposits (B1			oss Trim Lines (B16) ry-Season Water Table (C2)		
Water Marks (B1)	Hydrogen Sulfide		-	sh Burrows (C8)	,	
Sediment Deposits (B2)	Oxidized Rilizosp	heres on Living Roots (C3)		saturation Visible on Aerial Imagery (C9)		
Drift Deposits (B3)	Presence of Redu	iced Iron (C4)		d or Stressed Plants (3 ,	
Algal Mat or Crust (B4)		ction in Tilled Soils (C6)		orphic Position (D2)	<i>5</i> 1,	
Iron Deposits (B5)	Thin Muck Surfac			hallow Aquitard (D3)		
Inundation Visible on Aerial				opographic Relief (D4)	
Sparsely Vegetated Concave				eutral Test (D5)		
Field Observations:						
Surface Water Present?	Yes No Depth	(inches): 2				
Water Table Present?	Yes 🗸 No Depth	(inches): 0	Wetland H	lydrology Present?	Yes No	
Saturation Present?		(inches): 0	=			
(includes capillary fringe)			-			
	m gauge, monitoring well, aerial photo	s provious inspections) if	available:			
Describe Recorded Data (stream	in gauge, monitoring well, aeriai photo	s, previous irispections), ir a	avallable.			
Remarks:						

	Absolute	Dominant	Indicator	Dominance Test worksheet:		
Tree Stratum (Plot size: 30 ft)		Species?	Status	Number of Dominant Species That		
1. Acer rubrum	30	Yes	FAC	Are OBL, FACW, or FAC:	4	(A)
2. Carya ovata	20	Yes	FACU	Total Number of Dominant Species	5	(D)
3. Populus deltoides	15	Yes	FAC	Across All Strata:		(B)
4.		103	1710	Percent of Dominant Species That	80	(A/B)
5.				Are OBL, FACW, or FAC:		(A/B)
6.				Prevalence Index worksheet:		
7.				Total % Cover of:	Multiply	By:
/·		= Total Cove		OBL species 0	x 1 =	0
Couling (Chards Chartery (Dick since 45 ft)	65	_ 10tal Cove	1	FACW species 0	x 2 =	0
Sapling/Shrub Stratum (Plot size:15 ft)	4.5	\/	FAC	FAC species 85	x 3 =	255
1. Rhamnus cathartica	15	Yes	FAC	FACU species 20	x 4 =	80
2.				- UPL species 0	x 5 =	0
3				- Column Totals 105	(A)	335 (B)
4				Prevalence Index = B/A =	3.2	
5				Hydrophytic Vegetation Indicators:	-	
6				1- Rapid Test for Hydrophytic	/egetation	1
7				2 - Dominance Test is >50%	regetation	
	15	_= Total Cove	r	3 - Prevalence Index is $\leq 3.0^{\circ}$		
Herb Stratum (Plot size:5 ft)				4 - Morphological Adaptations	1 (Provide	supporting
1. <i>Toxicodendron radicans</i>	25	Yes	FAC	- data in Remarks or on a separate sl		supporting
2.				Problematic Hydrophytic Vege		(nlain)
3.				¹Indicators of hydric soil and wetlar		-
4.				present, unless disturbed or proble	-	ду тазс в с
5.				Definitions of Vegetation Strata:		
6.				Tree – Woody plants 3 in. (7.6 cm) o	r more in	diameter at
7.				breast height (DBH), regardless of h		alameter at
8.				Sapling/shrub – Woody plants less t	_	OBH and
9.				greater than or equal to 3.28 ft (1 m		
40				Herb – All herbaceous (non-woody)		gardless of
				size, and woody plants less than 3.2	28 ft tall.	
				Woody vines – All woody vines grea	ter than 3	.28 ft in
12	25	= Total Cove		height.		
We ado Note a Chaptering (Diet siege 20 ft)	25	_= Total Cove	r	Hydrophytic Vegetation Present?	Yes 🗸 N	No.
Woody Vine Stratum (Plot size: 30 ft)				- system of agreement recents		
1.				-		
2.				-		
3				-		
4				-		
	0	= Total Cove	r			
Remarks: (Include photo numbers here or on a separa	te sheet.)					

	cription: (Describe	to the de	-			ndicator	or confirm the al	osence of indicat	ors.)
Depth _	Matrix	0/	Redox			12	Tavet		Damanira
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type ¹	Loc ²	Textu		Remarks
0 - 7	10YR 3/2	100		_			Silty Clay		
7 - 18	10YR 4/1	95	10YR 4/6	5	C	M	Silty (lay	
				_					
				_					
				_					-
1Typo: C = C	Concentration, D =	Dopletic	n PM - Poducod	N/at	riv MS -	Maskod	Sand Grains 21	ocation: DL = Dor	e Lining, M = Matrix.
		pehierio	n, nivi – neduced	ivial	in, IVI3 -	MAYER	Jana Granis. *L(Problematic Hydric Soils ³ :
Hydric Soil			Dobardina Del	ر ا	urfa == 10	0) /I DD 1) MI DA 140D)		•
Histoso	r (A1) pipedon (A2)		Polyvalue Be Thin Dark Su				R, MLRA 149B)		(A10) (LRR K, L, MLRA 149B)
	istic (A3)		Loamy Muck						ie Redox (A16) (LRR K, L, R)
	en Sulfide (A4)		Loamy Gleye			(LKK K, L	.)		y Peat or Peat (S3) (LRR K, L, R)
	d Layers (A5)		Depleted Ma						ce (S7) (LRR K, L)
	d Below Dark Surfa	ace (A11						•	Below Surface (S8) (LRR K, L)
'	ark Surface (A12)		Depleted Dar		. ,	1			Surface (S9) (LRR K, L)
Sandy N	Mucky Mineral (S1)		Redox Depre						anese Masses (F12) (LRR K, L, R)
Sandy C	Gleyed Matrix (S4)		•						Floodplain Soils (F19) (MLRA 149B)
-	Redox (S5)								lic (TA6) (MLRA 144A, 145, 149B)
-	d Matrix (S6)							Red Parent	
	rface (S7) (LRR R, N	/LRA 149	9B)						w Dark Surface (TF12)
			,					Other (Expl	ain in Remarks)
-	of hydrophytic veg		and wetland hydr	olog	y must be	presen	t, unless disturbe	d or problematio	<u>.</u>
Restrictive	Layer (if observed):	:							
	Type:		None			Hydric	Soil Present?		Yes No
	Depth (inches):								
Remarks:									

Hydrology Photos



Vegetation Photos





Project/Site: Trelina		City/Cou	nty: Geneva, (Ontario	-	Sampling Date: 2	:019-June-26	
Applicant/Owner: NextEra				State: NY		Sampling Point: W-	NWJ-28; UPL-1	
Investigator(s): Nick DeJohn, N	late Jones			Section, Township,	, Range:			
Landform (hillslope, terrace, etc.): Agricult	tural Field	Loca	l relief (concave, conv	vex, none):_	Flat	Slope (%): 0-1	
Subregion (LRR or MLRA):	_RR L			Lat: 42.870426934	14 Long:_	-76.9792843942	Datum: WGS84	
Soil Map Unit Name: Claverac	k loamy fine s	and, 0 to 2 perd	cent slopes			NWI classificat	ion:	
Are climatic/hydrologic condition	is on the site t	ypical for this t	ime of year?	Yes No	o <u> </u>	explain in Remarks.	.)	
Are Vegetation, Soil,	or Hydrol	ogy signifi	icantly disturb	ed? Are "Norm	nal Circumst	ances" present?	Yes No	
Are Vegetation, Soil,	or Hydrol	ogy natur	ally problemat	ic? (If needed,	, explain any	y answers in Remar	ks.)	
SUMMARY OF FINDINGS – A	Attach site m	nap showing	sampling p	oint locations, trai	nsects, im	portant features	s, etc.	
Hydrophytic Vegetation Present		Yes No _	,			•		
			÷	o Campled Area withi	in a Watland	۷ د	os No (
Hydric Soil Present?		Yes No _	i	e Sampled Area withi	ın a weuand	u? Y	⁄es No <u>_</u> _	
Wetland Hydrology Present?		Yes No	∠ If ye	s, optional Wetland S	Site ID:			
Remarks: (Explain alternative pr	ocedures here	e or in a separa	te report)					
TRC covertype is UPL. Recent ra	in							
21								
HYDROLOGY								
Wetland Hydrology Indicators:								
Primary Indicators (minimum of	f one is require	ed: check all tha	at apply)		Secondary	/ Indicators (minimu	ım of two required)	
				DO)	•	e Soil Cracks (B6)		
Surface Water (A1) High Water Table (A2)		Aquatic F	ained Leaves (D9)		ge Patterns (B10)		
Saturation (A3)			osits (B15)			rim Lines (B16)		
Water Marks (B1)			n Sulfide Odor	·(C1)	Dry-Se	ason Water Table (C	:2)	
Sediment Deposits (B2)				on Living Roots (C3)	0 (0)			
				0,		tion Visible on Aeria	l Imagery (C9)	
Drift Deposits (B3)		Presence	e of Reduced Ir	on (C4)	Stunte	d or Stressed Plants	(D1)	
Algal Mat or Crust (B4)		Recent Ir	on Reduction	in Tilled Soils (C6)	Geomo	orphic Position (D2)		
Iron Deposits (B5)		Thin Mud	ck Surface (C7)			w Aquitard (D3)		
Inundation Visible on Aerial	0, 1	Other (Ex	xplain in Rema	rks)	Microte	opographic Relief (D	04)	
Sparsely Vegetated Concave	Surface (B8)				FAC-Ne	eutral Test (D5)		
Field Observations:								
Surface Water Present?	Yes	No <u>/</u>	Depth (inch	es):	_			
Water Table Present?	Yes	No <u>/</u>	Depth (inche	es):	Wetland H	lydrology Present?	Yes No	
Saturation Present?	Yes	No 🟒	Depth (inche	es):				
(includes capillary fringe)				· -	_			
Describe Recorded Data (stream	m gauga mani	toring wall sor	ial phatas pro	vious inspections) if	availables			
Describe Recorded Data (stream	i gauge, mom	toring well, aer	iai priotos, pre	vious irispections), ii	avallable.			
Remarks:								

<u> </u>							
Tree Stratum (Plot size: 30 ft)		Dominant		Dominance Test worksh			
	% Cover	Species?	Status	Number of Dominant S	oecies That	0	(A)
1				Are OBL, FACW, or FAC:			`
2.				Total Number of Domin	ant Species	1	(B)
3.				Across All Strata:			
4.				Percent of Dominant Sp	ecies That	0	(A/B)
5				Are OBL, FACW, or FAC:			
6				Prevalence Index works			
7.	-			Total % Cover of	<u>of:</u>	Multiply	<u>By:</u>
/·	0	= Total Cov	or	OBL species	0	x 1 =	0
Carolina/Charob Charterina (Diatoina) 15 ft		_ 10tal C0V	ei	FACW species	0	x 2 =	0
Sapling/Shrub Stratum (Plot size:15 ft)				FAC species	0	x 3 =	0
1.				FACU species	45	x 4 =	180
·				UPL species	0	x 5 =	0
3				Column Totals	45	(A)	180 (B)
4				Prevalence Inc		4	
5							· · · · · · · · · · · · · · · · · · ·
6.				Hydrophytic Vegetation			
7.				1- Rapid Test for H		egetation	
	0	= Total Cov	er	2 - Dominance Tes			
Herb Stratum (Plot size:5 ft)		=		3 - Prevalence Inde			
1. Trifolium repens	45	Yes	FACU	4 - Morphological			supporting
2.			.,,,,,	data in Remarks or on a			
3.				Problematic Hydro			
-				¹Indicators of hydric soi		-	gy must be
4	· ——			present, unless disturbe		natic	
5				Definitions of Vegetation			
6				Tree – Woody plants 3 in			diameter at
7				breast height (DBH), reg			
8				Sapling/shrub – Woody			DBH and
9				greater than or equal to			
10				Herb – All herbaceous (I	-		gardless of
11.				size, and woody plants l			
12.				Woody vines – All wood	y vines great	er than 3	.28 ft in
	45	= Total Cov	er	height.			
Woody Vine Stratum (Plot size:30 ft)		-		Hydrophytic Vegetation	Present?	′es N	lo <u> </u>
1.							
2.							
3.	· ——			•			
· · · · · · · · · · · · · · · · · · ·							
4							
	0	= Total Cov	er				
Remarks: (Include photo numbers here or on a separat	te sheet.)						

Depth Matrix (inches) Color (moist)			licator or confirm the al	osence of indicators.)
(inches) Color (moist)		Features		.
	% Color (moist)	% Type¹ l	_oc² Texture	Remarks
0 - 14 10R 4/3	100		Silt Loam	
·				
				
				
				
Type: C = Consentration D = De	anlation DM = Daducas	I Matrix MC = M	acked Cand Crains 21	position DI = Doro Lining M = Matrix
Type: C = Concentration, D = De	epietion, Rivi – Reduced	i Matrix, MS – Ma	askeu sanu Grains. *Lo	ocation: PL = Pore Lining, M = Matrix.
Hydric Soil Indicators:			(1 DD D 141 D4 4 40D)	Indicators for Problematic Hydric Soils ³ :
Histosol (A1)			(LRR R, MLRA 149B)	2 cm Muck (A10) (LRR K, L, MLRA 149B)
Histic Epipedon (A2)		rface (S9) (LRR R y Mineral (F1) (LI		Coast Prairie Redox (A16) (LRR K, L, R)
Black Histic (A3) Hydrogen Sulfide (A4)	Loamy Gleye		KK K, L)	5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
Stratified Layers (A5)	Depleted Ma		Dark Surface (S7) (LRR K, L)	
Depleted Below Dark Surface				Polyvalue Below Surface (S8) (LRR K, L)
Thick Dark Surface (A12)		rk Surface (F7)		Thin Dark Surface (S9) (LRR K, L)
Sandy Mucky Mineral (S1)	Redox Depre			Iron-Manganese Masses (F12) (LRR K, L, R)
Sandy Gleyed Matrix (S4)		.55.55 (. 5)		Piedmont Floodplain Soils (F19) (MLRA 149B)
Sandy Gleyed Wattix (54) Sandy Redox (S5)				Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
Stripped Matrix (S6)				Red Parent Material (F21)
Dark Surface (S7) (LRR R, ML	DA 140D)			Very Shallow Dark Surface (TF12)
Dark Surface (37) (LKK K, IML	KA 1430)			Other (Explain in Remarks)
³ Indicators of hydrophytic veget	ation and wetland hyd	rology must be p	resent, unless disturbe	d or problematic.
Restrictive Layer (if observed):				
Type:	Compaction	_ +	lydric Soil Present?	Yes No
Depth (inches):	14			

Vegetation Photos



Soil Photos



Project/Site: Trelina	City/Cou	unty: Geneva, Ontario		Sampling Date:	2019-June-27
Applicant/Owner: NextEra			State: NY	Sampling Point: \	W-NWJ-29; PEM-1
Investigator(s): Nick DeJohn, N	ate Jones	Sect	ion, Township, Range:		
Landform (hillslope, terrace, etc.)	: Depression	Local relief	(concave, convex, non	e): Concave	Slope (%): 0-1
Subregion (LRR or MLRA):	RR L	Lat:	42.8701918899 Lor	ng: -76.9792883378	Datum: WGS84
Soil Map Unit Name: Cosad lo	amy fine sand	_	_	NWI classific	ation:
Are climatic/hydrologic condition	s on the site typical for this	time of year?	Yes No _ ∠ (If	no, explain in Remarl	ks.)
Are Vegetation, Soil,	or Hydrology signi	ficantly disturbed?	Are "Normal Circu	mstances" present?	Yes _✓ No
Are Vegetation, Soil,	or Hydrology natu	rally problematic?	(If needed, explain	any answers in Rem	arks.)
SUMMARY OF FINDINGS – A	ttach site man showing	sampling point lo	cations, transects.	important featur	es. etc.
		1			
Hydrophytic Vegetation Present	? Yes _ ∠ _ No _	i			
Hydric Soil Present?	Yes No _	Is the Samp	oled Area within a Wet	land?	Yes No
Wetland Hydrology Present?	Yes <u></u> ✓ No _	If yes, optio	nal Wetland Site ID:		W-NWJ-29
Remarks: (Explain alternative pro	ocedures here or in a separ	ate report)			
, , , , , , , , , , , , , , , , , , ,					
TRC covertype is PEM. Wetter th	an average year				
HYDROLOGY					
Wetland Hydrology Indicators:					
Primary Indicators (minimum of	one is required; check all th	at apply)	Second	lary Indicators (minin	num of two required)
✓ Surface Water (A1)	Water-S	tained Leaves (B9)	Sur	face Soil Cracks (B6)	
✓ High Water Table (A2)		Fauna (B13)	Dra	inage Patterns (B10)	
✓ Saturation (A3)	•	posits (B15)	Mo	ss Trim Lines (B16)	
Water Marks (B1)		en Sulfide Odor (C1)	Dry	-Season Water Table	(C2)
Sediment Deposits (B2)	Oxidize	d Rhizospheres on Livi	ng Roots (C3) Cra	yfish Burrows (C8)	
	0/1101200	a200p	Sat	uration Visible on Aeı	rial Imagery (C9)
Drift Deposits (B3)	Presenc	e of Reduced Iron (C4)	Stu	nted or Stressed Plar	nts (D1)
Algal Mat or Crust (B4)		ron Reduction in Tilled		omorphic Position (D	
Iron Deposits (B5)		ick Surface (C7)	· · · —	llow Aquitard (D3)	,
Inundation Visible on Aerial I		xplain in Remarks)		rotopographic Relief	(D4)
Sparsely Vegetated Concave	· · · · · · · · · · · · · · · · · · ·			C-Neutral Test (D5)	(2.)
Field Observations:	Surface (Bo)			. ivedital lest (DS)	
Surface Water Present?	Yes No	Depth (inches):	1		
Water Table Present?	Yes No	Depth (inches):		nd Hydrology Present	? Yes No
Saturation Present?	Yes No	Depth (inches):	0		
(includes capillary fringe)					
Describe Recorded Data (stream	ngauge, monitoring well, ae	rial photos, previous ii	nspections), if available	e:	
			•		
Remarks:					

				To			
<u>Tree Stratum</u> (Plot size: <u>30 ft</u>)		Dominant		Dominance Test worksheet			
	% Cover	Species?	Status	Number of Dominant Spec Are OBL, FACW, or FAC:	ies mat	2	(A)
1					- Species		
2				Total Number of Dominant Across All Strata:	Species	2	(B)
3				Percent of Dominant Speci	os That		
4				Are OBL, FACW, or FAC:	es mat	100	(A/B)
5				Prevalence Index workshee	at.		
6.				Total % Cover of:		Multiply F). <i>n</i>
7.						Multiply E	-
	0	= Total Cove	er e	OBL species	67	x 1 =	67
Sapling/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
3.				UPL species	0	x 5 =	0
-				Column Totals	67	(A)	67 (B)
4				Prevalence Index	c = B/A = _	1	
5				Hydrophytic Vegetation Inc	dicators:		
6				1- Rapid Test for Hydr		egetation	
7				2 - Dominance Test is			
	0	_= Total Cove	er	✓ 3 - Prevalence Index i			
Herb Stratum (Plot size: <u>5 ft</u>)				4 - Morphological Ada		(Provide s	unnorting
1. <i>Eleocharis palustris</i>	40	Yes	OBL	data in Remarks or on a se			apporting
2. Alisma triviale	20	Yes	OBL	Problematic Hydroph			olain)
3. <i>Typha latifolia</i>	7	No	OBL	¹Indicators of hydric soil ar	-		
4.				present, unless disturbed of		-	y masc be
5.				Definitions of Vegetation S	•	Tacic	
6.				Tree – Woody plants 3 in. (more in d	iameter at
7.				breast height (DBH), regard			iairietei at
8.				Sapling/shrub – Woody pla			RH and
9.				greater than or equal to 3.3			Di i and
40				Herb – All herbaceous (nor			ardless of
10				size, and woody plants less			araicss or
11				Woody vines – All woody vi			28 ft in
12				height.	ines great	C1 (11011 3.2	20 10 111
	67	_= Total Cove	er			(N	
Woody Vine Stratum (Plot size: 30 ft)				Hydrophytic Vegetation Pr	resent? Y	es <u> </u>	0
1							
2							
3.							
4.							
	0	= Total Cove	er				
Demonstrat (Include whete much one have as as a con-		_					
Remarks: (Include photo numbers here or on a sepa	irate sneet.)						

Depth (inches)	Matrix Color (moist)	%	Redox Color (moist)	%	Type ¹	Loc ²	Textu	ure Remarks
0 - 14	10YR 3/2	95	10YR 4/6	5	С	M	Silty Clay	
		_		_				
				_				
		_		_				
		_		_				
		_		_				
		_		_				
	 Concentration, D = [Depletio	on, RM = Reduced	 Mat	rix, MS =	Masked	Sand Grains. ² Lo	ocation: PL = Pore Lining, M = Matrix.
-	Indicators:							Indicators for Problematic Hydric Soils ³ :
Histoso			Polyvalue Be					2 cm Muck (A10) (LRR K, L, MLRA 149B)
Histic Ep Black Hi	oipedon (A2)		Thin Dark Su Loamy Muck					Coast Prairie Redox (A16) (LRR K, L, R)
	en Sulfide (A4)		Loamy Gleye			(LIXIX IX, L	.,	5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
	d Layers (A5)		Depleted Ma					Dark Surface (S7) (LRR K, L)
	d Below Dark Surfa	ce (A11						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	lucky Mineral (S1)		Redox Depre	ssior	ns (F8)			Iron-Manganese Masses (F12) (LRR K, L, R)
Sandy C	Gleyed Matrix (S4)							Piedmont Floodplain Soils (F19) (MLRA 149B)
Sandy F	tedox (S5)							Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
-	d Matrix (S6)							Red Parent Material (F21)
	rface (S7) (LRR R, M	LRA 14	9B)					Very Shallow Dark Surface (TF12) Other (Explain in Remarks)
	of hydrophytic vege	etation	and wetland hydr	olog	y must be	e presen	t, unless disturbe	d or problematic.
Restrictive	Layer (if observed): Type:		Rocks/Gravel			Hydric	Soil Present?	Yes No
	Depth (inches):		14			liyane	John Tesent.	163110
Remarks:								

Hydrology Photos



Vegetation Photos





Project/Site: Trelina	City/County: Gen	eva, Ontario	Sampling Date: 2019-June-27		
Applicant/Owner: NextEra		State: NY	Sampling Po	int: W-NWJ-29; PFO-1	
Investigator(s): Nick DeJohn, N	late Jones	Section, Township,	Range:		
Landform (hillslope, terrace, etc.): Depression	Local relief (concave, conv	ex, none): Concave	Slope (%): 0-1	
Subregion (LRR or MLRA):	_RR L	Lat: 42.870091271	5 Long: -76.9793715	5759 Datum: WGS84	
Soil Map Unit Name: Cosad lo	amy fine sand		NWI cla	assification:	
Are climatic/hydrologic condition	ns on the site typical for this time of ye	ar? Yes No	(If no, explain in R	emarks.)	
Are Vegetation, Soil,	or Hydrology significantly dis		al Circumstances" pres		
Are Vegetation, Soil,	or Hydrology naturally probl	ematic? (If needed,	explain any answers in	Remarks.)	
SUMMARY OF FINDINGS - A	Attach site map showing sampliı	ng point locations, trai	nsects, important fe	atures, etc.	
Hydrophytic Vegetation Present	:? Yes _ ✓ _ No				
Hydric Soil Present?	Yes _ ✓ No	Is the Sampled Area withi	n a Wetland?	Yes∕_ No	
Wetland Hydrology Present?	Yes No	If yes, optional Wetland S	te ID:	W-NWJ-29	
Remarks: (Explain alternative pr	ocedures here or in a separate report)			
TRC covertype is PFO. Wetter th	an average year				
HYDROLOGY					
IIIDROLOGI					
Wetland Hydrology Indicators:					
Primary Indicators (minimum of	f one is required; check all that apply)		Secondary Indicators (minimum of two required)	
<u> ✓</u> Surface Water (A1)	<u></u> Water-Stained Lea	aves (B9)	Surface Soil Cracks		
<u>✓</u> High Water Table (A2)	Aquatic Fauna (B1	3)	Drainage Patterns		
<u>✓</u> Saturation (A3)	Marl Deposits (B1		Moss Trim Lines (B		
Water Marks (B1)	Hydrogen Sulfide		Dry-Season Water Crayfish Burrows (
Sediment Deposits (B2)	Oxidized Rhizosph	neres on Living Roots (C3)	•	on Aerial Imagery (C9)	
Drift Deposits (B3)	Presence of Redu	ced Iron (CA)	Stunted or Stressed		
Algal Mat or Crust (B4)		ction in Tilled Soils (C6)	Geomorphic Position		
Iron Deposits (B5)	Thin Muck Surface		Shallow Aquitard ([
Inundation Visible on Aerial			Microtopographic I		
Sparsely Vegetated Concave		•	✓ FAC-Neutral Test (D		
Field Observations:					
Surface Water Present?	Yes _ 🗸 No Depth	(inches): 1			
Water Table Present?	Yes <u></u> ✓ No Depth	(inches): 0	Wetland Hydrology Pro	esent? Yes/_ No	
Saturation Present?	•	(inches): 0			
	res <u>7</u> No Deptil	(inches).			
(includes capillary fringe)					
Describe Recorded Data (stream	n gauge, monitoring well, aerial photo	s, previous inspections), if	available:		
Remarks:					

	Absoluto	Dominant	Indicator	Dominance Test worksheet:		
<u>Tree Stratum</u> (Plot size: <u>30 ft</u>)		Species?	Status	Number of Dominant Species That		
1. Fraxinus pennsylvanica	45	Yes	FACW	Are OBL, FACW, or FAC:	3	(A)
2. Acer rubrum	30	Yes	FAC	Total Number of Dominant Species		(D)
3.		103	1710	Across All Strata:	3	(B)
4.				Percent of Dominant Species That	100	(A /D)
5.				Are OBL, FACW, or FAC:		(A/B)
-	. ——			Prevalence Index worksheet:		
6.				Total % Cover of:	Multiply	<u>By:</u>
7				OBL species 0	x 1 =	0
	75	= Total Cove	er	FACW species 90	x 2 =	180
Sapling/Shrub Stratum (Plot size: 15 ft)				FAC species 40	x 3 =	120
1				FACU species 0	x 4 =	0
2				UPL species 0	x 5 =	0
3				Column Totals 130	(A)	300 (B)
4				Prevalence Index = B/A =	-	(-)
5						
6				Hydrophytic Vegetation Indicators:	logotation	
7				1- Rapid Test for Hydrophytic \ 2 - Dominance Test is >50%	regetation	
	0	= Total Cove	er			
Herb Stratum (Plot size:5 ft)		_		✓ 3 - Prevalence Index is ≤ 3.0¹	1 (D	
1. Onoclea sensibilis	45	Yes	FACW	4 - Morphological Adaptations		supporting
2. <i>Toxicodendron radicans</i>	10	No	FAC	data in Remarks or on a separate shProblematic Hydrophytic Vege		(nicin)
3.				Indicators of hydric soil and wetlan		•
4.				present, unless disturbed or proble		gy must be
5.				Definitions of Vegetation Strata:	Hatic	
6.				_	r mara in	diameter at
7.				Tree – Woody plants 3 in. (7.6 cm) o breast height (DBH), regardless of h		ulairietei at
8.				Sapling/shrub – Woody plants less t	_	OBH and
9.				greater than or equal to 3.28 ft (1 m		obi i aliu
40	·			Herb – All herbaceous (non-woody)		ardless of
10.				size, and woody plants less than 3.2		541 41033 01
11				Woody vines – All woody vines grea		.28 ft in
12				height.		
	55	= Total Cov	er	Hydrophytic Vegetation Present?	Voc / N	lo.
Woody Vine Stratum (Plot size: 30 ft)				Trydrophyde vegetation i resent:	103 <u>v</u> 10	
1				-		
2				_		
3						
4				-		
	0	= Total Cov	er			
Remarks: (Include photo numbers here or on a separat	e sheet.)					
,	,					

(Inches) Color (moist) 9, Color (moist) 6, Color (moist) 6, Color (moist) 7, CSYR 4/6 6, C. M. Silty Clay	Depth _	Matrix		Redox	(Feat	ures				
Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. Type: None	(inches)	Color (moist)	%	Color (moist)	<u>%</u>	Type ¹	Loc ²	Text	ure	Remarks
Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. **Jeccation: PL = Pore Lining, M = Matrix.** Indicators for Problematic Hydric Soils*: Histosol (A1)			94		6		M			
Hydric Soil Indicators: Histosol (A1)	8 - 19	10YR 5/2	90	7.5YR 4/6	10	C	M	Silty	Clay	
Hydric Soil Indicators: Histosol (A1)			- —							
Hydric Soil Indicators: Histosol (A1)										
Hydric Soil Indicators: Histosol (A1)			-							
Hydric Soil Indicators: Histosol (A1)			-							
Hydric Soil Indicators: Histosol (A1)			-							
Hydric Soil Indicators: Histosol (A1)			_							
Hydric Soil Indicators: Histosol (A1)			_							
Hydric Soil Indicators: Histosol (A1)			-							
Hydric Soil Indicators: Histosol (A1)			_						·	
Hydric Soil Indicators: Histosol (A1)	Type: C = C	oncentration D =	 Denleti	ion RM = Reduce	d Mat	riy MS =	Masked	Sand Grains 21	ocation: PL = Pore I	Lining M = Matrix
Histosol (A1)	•		cpiet	ion, Rivi - Reduce	u ivial	1 1A, 1413 -	MUSICU	Sana GrainsLi		
Histic Epipedon (A2)	-			Polyvalue Be	elow ^c	Surface (S	8) (LRR F	R. MLRA 149B)		,
Black Histic (A3)		` '		-						
	Black His	stic (A3)		Loamy Mucl	ky Mir	neral (F1)	(LRR K, L)		
Stratified Layers (A5)										
Thick Dark Surface (A12)				·						
Sandy Mucky Mineral (S1) Redox Depressions (F8) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Gleyed Matrix (S4) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) 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) Indicators 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):			ice (A1						Thin Dark Sur	rface (S9) (LRR K, L)
Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Depth (inches): Type: Depth (inches): Piedmont Floodplain Soils (F19) (MLRA 149B) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Depth (matrix (S6) Depth (MLRA 149B) Depth (MLRA 149B) Depth (matrix (S4) Depth (MLRA 149B) Depth (MLR				•			'		Iron-Mangane	ese Masses (F12) (LRR K, L, R)
Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: None Depth (inches): Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) Hydric Soil Present? Yes No	•			Redox Depi	C33101	13 (1 0)				
Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: None Hydric Soil Present? Yes No	-	•								
Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) Indicators 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):	-									
Indicators 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			ILRA 14	49B)					-	
Restrictive Layer (if observed): Type: None Hydric Soil Present? Yes No Depth (inches):										ii iii keiliaiks)
Type: None Hydric Soil Present? Yes _ No Depth (inches):				and wetland hyd	rolog	y must be	e presen	t, unless disturbe	d or problematic.	
Depth (inches):		=		Nama			م نما ما	Cail Duananto	v	lan (Na
				None			Hyaric	Soil Present?	Y	es No
kemarks:		Depth (inches):	_							
	Remarks:									

Hydrology Photos



Vegetation Photos





Itural Field	State: NY	va, Ontario Sampling Date: 2019-June				
Itural Field		Sampling Point: W-	NWJ-29; UPL-1			
Itural Field L	Section, Township, R	ange:				
ltural Field Lo	ocal relief (concave, convex	x, none): Flat	Slope (%): 0-1			
	Lat: 42.8702055943	Long: -76.9793117233	Datum: WGS84			
d		NWI classificat	ion:			
typical for this time of year		✓ (If no, explain in Remarks.))			
ology significantly distu		Circumstances" present?	Yes _ ✓ No			
ology naturally probler	natic? (If needed, ex	xplain any answers in Remark	(S.)			
map showing sampling	រូ point locations, trans	ects, important features	, etc.			
Yes No _ _ ∕_						
Yes No Is	s the Sampled Area within	a Wetland? Y	es No⁄_			
Yes No /	ves. optional Wetland Site	e ID:				
	<i>yes,</i> operana 11 cerana 51 ce					
three wetland parameters a	are present. Circumstance:	s are not normal due to agric	ultural activities,			
red; check all that apply)	2	Secondary Indicators (minimu	m of two required)			
Water-Stained Leave	es (B9) –	Surface Soil Cracks (B6)				
Aquatic Fauna (B13)	-					
•			2)			
Oxidized Knizospne	res on Living Roots (C3) =		I Imagery (C9)			
Presence of Reduce	d Iron (C4)					
			,			
Thin Muck Surface (C7) _	Shallow Aquitard (D3)				
Other (Explain in Re	marks) _	Microtopographic Relief (D	4)			
		FAC-Neutral Test (D5)				
_ No Depth (in	nches):					
No 🔽 Depth (in		Wetland Hydrology Present?	Yes No _ _ _			
•	nches):	Wetland Hydrology Present?	Yes No _			
r	Yes No / Is Yes No / Is Yes No / If e or in a separate report) Three wetland parameters and the separate report Three wetland parameters and report of the separate report of the se	Yes No Is the Sampled Area within Yes No If yes, optional Wetland Site Three wetland parameters are present. Circumstance Three wetland parameters are present. Circumstance Three wetland parameters are present. Circumstance Three wetland parameters are present. Circumstance Three wetland parameters are present. Circumstance 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)	Is the Sampled Area within a Wetland? Yes No ✓ If yes, optional Wetland Site ID: If y			

Tree Stratum (Plot size:30 ft)	Absolute	Dominant	Indicator	Dominance Test workshe	eet:		
1.	% Cover	Species?	Status	Number of Dominant Sp Are OBL, FACW, or FAC:	ecies That	1	(A)
2.				Total Number of Domina	int Species	2	(B)
3.				Across All Strata:Percent of Dominant Spe	ocios That		` `
4				- Are OBL, FACW, or FAC:	cies mat	50	(A/B)
5				Prevalence Index worksh	eet:		
6.			-	Total % Cover o	<u>f:</u>	Multiply	By:
7		= Total Cov		OBL species	0	x 1 =	0
Sapling/Shrub Stratum (Plot size:15 ft)		_ 10tai Co	vei	FACW species	0	x 2 =	0
1.				FAC species	20	x 3 =	60
2.			-	FACU species	20	x 4 =	80
3.			-	UPL species	0	x 5 =	0
4.			-	Column Totals	40	(A)	140 (B)
5.			-	Prevalence Ind	ex = B/A =	3.5	
6.			-	Hydrophytic Vegetation I	ndicators:		
7.			-	1- Rapid Test for Hy	drophytic V	egetation	ı
/·	0	= Total Cov	·or	2 - Dominance Test	is > 50%		
Herb Stratum (Plot size: _ 5 ft)		_ 10tai Co	vei	3 - Prevalence Inde	x is ≤ 3.0^{1}		
1. Trifolium repens	20	Yes	FACU	4 - Morphological A			supporting
2. Juncus tenuis	20	Yes	FAC	– data in Remarks or on a			
3.		163	TAC	Problematic Hydro			
4.				Indicators of hydric soil		,	gy must be
5.			-	_ present, unless disturbed		natic	
6.			-	_ Definitions of Vegetation			
7.				_ Tree – Woody plants 3 in			diameter at
-				breast height (DBH), regardates Sapling/shrub – Woody p			DPU and
8.				greater than or equal to			эвн ани
9.				Herb – All herbaceous (n			pardless of
10.				size, and woody plants le			Sar aress or
11.				Woody vines - All woody			.28 ft in
12		Total Ca		height.	J		
March Marc Charles (Districts 20 ft)	40	= Total Cov	/er	Hydrophytic Vegetation	Present? \	′es N	lo 🗸
Woody Vine Stratum (Plot size: 30 ft)				.,,			
1				-			
2.			•	_			
3.			•	_			
4		Total Ca		_			
	0	= Total Cov	/er				
Remarks: (Include photo numbers here or on a separat	e sheet.)						

· · · · · · · · · · · · · · · · · · ·	to the de	-			ndicator	or confirm the al	osence of indicators.)
Depth Matrix	0/	Redox			12	T	Para ada
(inches) Color (moist)	_ <u>%</u>	Color (moist)	<u>%</u>	Type ¹	Loc ²	Texture	Remarks
0 - 10 10YR 4/2	100					Silt Loam	
			· —				
			_				
			_				
			-				
Type C = Concentration D =		p DM = Doducod	Matr	iv MC =	Maskad	Cand Crains 21	esetion DI - Pero Lining M - Metrix
Type: C = Concentration, D =	Depletic	n, Rivi – Reduced	Man	IX, IVIS –	waskeu .	Sanu Grains. *LC	ocation: PL = Pore Lining, M = Matrix.
Hydric Soil Indicators:					o. 4 pp p		Indicators for Problematic Hydric Soils ³ :
Histosol (A1)		-				, MLRA 149B)	2 cm Muck (A10) (LRR K, L, MLRA 149B)
Histic Epipedon (A2)		Thin Dark Su Loamy Muck					Coast Prairie Redox (A16) (LRR K, L, R)
Black Histic (A3) Hydrogen Sulfide (A4)		Loamy Gleye	•		(LKK K, L)	5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
Stratified Layers (A5)		Depleted Ma					Dark Surface (S7) (LRR K, L)
Stratified Layers (A5) Depleted Below Dark Sur	face (A11						Polyvalue Below Surface (S8) (LRR K, L)
Thick Dark Surface (A12)	acc (/ ti i	Depleted Dark					Thin Dark Surface (S9) (LRR K, L)
Sandy Mucky Mineral (S1)	ı	Redox Depre					Iron-Manganese Masses (F12) (LRR K, L, R)
Sandy Gleyed Matrix (S4)			55.5	. (, 0)			Piedmont Floodplain Soils (F19) (MLRA 149B)
Sandy Redox (S5)							Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
Stripped Matrix (S6)							Red Parent Material (F21)
Stripped Matrix (36) Dark Surface (S7) (LRR R,	MIDA 14)D)					Very Shallow Dark Surface (TF12)
Dark Surface (37) (LKK K,	WILKA 14:	76)					Other (Explain in Remarks)
Indicators of hydrophytic ve	getation	and wetland hydr	ology	must be	e present	t, unless disturbe	d or problematic.
Restrictive Layer (if observed):						
Type:	(Compaction	-		Hydric :	Soil Present?	Yes No/_
Depth (inches):		10					



Project/Site: Trelina	City/County: G	eneva, Ontario	Sampling Date:	2019-June-27
Applicant/Owner: NextEra		State: NY	Sampling Point: V	V-NWJ-30; PEM-1
Investigator(s): Nick DeJohn, N	late Jones	Section, Township,	Range:	
Landform (hillslope, terrace, etc.)): Depression	Local relief (concave, conv		Slope (%): 0-1
• · <u> </u>	RR R		7 Long: -76.9794866537	Datum: WGS84
	k loamy fine sand, 0 to 2 percent slo		NWI classific	
	ns on the site typical for this time of		✓ (If no, explain in Remark	s.)
Are Vegetation, Soil,	or Hydrology significantly		al Circumstances" present?	Yes No
Are Vegetation, Soil,	or Hydrology naturally pro	oblematic? (If needed,	explain any answers in Rema	arks.)
SUMMARY OF FINDINGS - A	Attach site map showing samp	oling point locations, tran	sects, important feature	es, etc.
Hydrophytic Vegetation Present	:? Yes <u></u> ✓ No			
Hydric Soil Present?	Yes _ 🗸 No	Is the Sampled Area withi	n a Wetland?	Yes/_ No
		i '		
Wetland Hydrology Present?	Yes _ ৴ _ No	If yes, optional Wetland Si	te ID:	W-NWJ-30
Remarks: (Explain alternative pr	ocedures here or in a separate repo	ort)		
TRC covertype is PEM. Wetter th	nan average vear			
The covertype is rein. Wetter th	an average year			
HYDROLOGY				
Wetland Hydrology Indicators:				
Primary Indicators (minimum of	f one is required; check all that appl	χ <u>)</u>	Secondary Indicators (minim	num of two required)
✓ Surface Water (A1)	Water-Stained l	_eaves (B9)	Surface Soil Cracks (B6)	
✓ High Water Table (A2)	Aquatic Fauna (Drainage Patterns (B10)	
✓ Saturation (A3)	Marl Deposits (Moss Trim Lines (B16)	
Water Marks (B1)	Hydrogen Sulfic		Dry-Season Water Table	(C2)
Sediment Deposits (B2)			Crayfish Burrows (C8)	
, , ,			Saturation Visible on Aer	ial Imagery (C9)
Drift Deposits (B3)	Presence of Red	duced Iron (C4)	Stunted or Stressed Plan	ts (D1)
Algal Mat or Crust (B4)	Recent Iron Rec	duction in Tilled Soils (C6)	Geomorphic Position (D2	2)
Iron Deposits (B5)	Thin Muck Surfa	ace (C7)	Shallow Aquitard (D3)	
Inundation Visible on Aerial	lmagery (B7) Other (Explain i	n Remarks)	Microtopographic Relief	(D4)
Sparsely Vegetated Concave	Surface (B8)		✓ FAC-Neutral Test (D5)	
Field Observations:				
Surface Water Present?	Yes 🗸 No Dep	th (inches): 2		
Water Table Present?	Yes <u></u> ✓ No Dep	th (inches): 0	Wetland Hydrology Present	? Yes No
		· · ·	Treation a right orogy ricosina	
Saturation Present?	Yes No Dep	th (inches): 0		
(includes capillary fringe)				
Describe Recorded Data (stream	n gauge, monitoring well, aerial pho	tos, previous inspections), if a	available:	
Remarks:				
Remarks.				

, , , , , , , , , , , , , , , , , , ,				T			
<u>Tree Stratum</u> (Plot size:30 ft)		Dominant		Dominance Test worksh			
	% Cover	Species?	Status	Number of Dominant Sp	ecies That	1	(A)
1				Are OBL, FACW, or FAC:	- m + C i		
2				Total Number of Domina Across All Strata:	ant species	1	(B)
3				Percent of Dominant Sp	osios That		
4				- Are OBL, FACW, or FAC:	ecies mai	100	(A/B)
5				Prevalence Index worksl	noot:		
6				- Total % Cover of		Multiply E	Dr. e.
7.	·			- OBL species		Multiply E	
	0	= Total Cov	er		55	x1=	55
Sapling/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
3.				- UPL species	0	x 5 =	0
				- Column Totals	55	(A)	55 (B)
4				- Prevalence Inc	dex = B/A =	1	
5				Hydrophytic Vegetation	Indicators:		
6				1- Rapid Test for H		/egetation	
7				2 - Dominance Test		egetation.	
	0	= Total Cov	er	✓ 3 - Prevalence Inde			
Herb Stratum (Plot size:5 ft)				4 - Morphological A		(Drovido c	unnorting
1. Eleocharis palustris	30	Yes	OBL	- data in Remarks or on a			supporting
2. <i>Typha latifolia</i>	10	No	OBL	Problematic Hydro			olain)
3. Alisma triviale	10	No	OBL				
4. Ranunculus sceleratus	5	No	OBL	 Indicators of hydric soil present, unless disturbe 		, .	gy must be
5.						Hatic	
6.				_ Definitions of Vegetation			
				_ Tree – Woody plants 3 in			liameter at
7				breast height (DBH), reg			DIII I
8				Sapling/shrub - Woody			вн апо
9				greater than or equal to			I
10				Herb – All herbaceous (r size, and woody plants le			ardiess of
11							00 ft i-
12				Woody vines – All woody	/ vines great	er than 3.2	28 IL III
	55	= Total Cov	er	height.			
Woody Vine Stratum (Plot size:30 ft)				Hydrophytic Vegetation	Present? \	∕es <u> </u>	0
1.							
2.				-			
3.				-			
4.				-			
<u> </u>	0	= Total Cov	or	-			
		_ 10tal C0V	eı				
Remarks: (Include photo numbers here or on a separat	e sheet.)						

(inches)	Matrix		Redox					_
	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type ¹		xture	Remarks
0 - 7	10YR 2/2	97	10YR 4/6	3	C		lay Loam	
7 - 20	10YR 4/1	94	10YR 6/8	6	C	M Silt	y Clay	
		- —		- —				
	-			- —				
	-							
				- —				
				- —				
	-	- —		- —				
				- —				
	-	- —						
		-						
Tyne: (= (Concentration D = I	 Denleti	on RM = Reduced	l Mat	rix MS =	Masked Sand Grains.	² Location: PL = Pore L	ining M = Matrix
•	Indicators:	- spice	, Reduced		, 1113			blematic Hydric Soils ³ :
Histoso			Polyvalue Be	low S	Surface (S	58) (LRR R, MLRA 149B)		10) (LRR K, L, MLRA 149B)
	pipedon (A2)		-			R R, MLRA 149B)		Redox (A16) (LRR K, L, R)
	istic (A3)		Loamy Muck	-		(LRR K, L)		eat or Peat (S3) (LRR K, L, R)
	en Sulfide (A4)		Loamy Gleye				Dark Surface (
	ed Layers (A5) ed Below Dark Surfa	.co (A1:	_ <u>✓</u> Depleted Ma				Polyvalue Beld	ow Surface (S8) (LRR K, L)
	ark Surface (A12)	ice (A i	Depleted Da			1		face (S9) (LRR K, L)
	Mucky Mineral (S1)		Redox Depre			,		ese Masses (F12) (LRR K, L, R)
Sandy (Gleyed Matrix (S4)				. ,			odplain Soils (F19) (MLRA 149B)
Sandy F	Redox (S5)							(TA6) (MLRA 144A, 145, 149B)
Strippe	d Matrix (S6)						Red Parent M	Dark Surface (TF12)
Dark Su	ırface (S7) (LRR R, M	ILRA 14	19B)				Other (Explain	
Indicators	of bydrophytic you	otation	and watland byd	rolog	y must b	e present, unless distur		
illulcator s	of flydropflytic vegi	ctation	and Welland nyd	rolog	y must b	e present, uniess distar	bed of problematic.	
	Laver (if observed).					Hydric Soil Present?	V	
	Layer (if observed):		None					es ./ No
	Type:		None	=		riyane son rresent:		es No
Restrictive	=		None	-		Tryunc son r resent:		es No
Restrictive	Type:		None	_		riyune son rresent:		es/_ No
Restrictive	Type:		None	_		Tyune 3011 resente		es No
Restrictive	Type:		None	_		Tyune 3011 resente		es/_ No
Restrictive	Type:		None	_		Tyune 30m Fresente		es/_ No
Restrictive	Type:		None	-		Tyune 30m resente		es/ No
estrictive	Type:	_	None	-		Tyune 30m resente		es/ No
estrictive	Type:		None	-		Tyune 30m resente		es/ No
Restrictive	Type:		None	-		Tyune 30m Fresente	<u> </u>	es/ No
Restrictive	Type:		None	_		Tyune 30m Fresente		es/ No
Restrictive	Type:		None			Tyune 30m Fresente		es/ No
Restrictive	Type:		None	-		Tyune 30m resente		es _/_ No
Restrictive	Type:		None	-		Tyune 30m Fresente		es _/_ No
	Type:		None	-		Tyune 30m resente		es _/_ No
Restrictive	Type:		None	-		Tyune 30m resente		es/ No
Restrictive	Type:		None	-		Tyune 30m resente		es/ No
Restrictive	Type:		None	-		Tyune 30m resente		es _/_ No
Restrictive	Type:		None	-		Tyune 30m resente		es _/_ No

Hydrology Photos



Vegetation Photos





Project/Site: Trelina	City/County: Gen	eva, Ontario	Sampling Date: 2019-June-27
Applicant/Owner: NextEra		State: NY	Sampling Point: W-NWJ-30; UPL-1
Investigator(s): Nick DeJohn, N	ate Jones	Section, Township,	Range:
Landform (hillslope, terrace, etc.)	: Agricultural Field	Local relief (concave, conv	ex, none): Flat Slope (%): 0-1
Subregion (LRR or MLRA): L	RR L	Lat: 42.870690780	7 Long: -76.9794288185 Datum: WGS84
Soil Map Unit Name: Claverack	k loamy fine sand, 0 to 2 percent slope	25	NWI classification:
Are climatic/hydrologic condition:	s on the site typical for this time of ye	ar? Yes No	(If no, explain in Remarks.)
Are Vegetation, Soil,	or Hydrology significantly dis		al Circumstances" present? Yes <u></u> ✓ No
Are Vegetation, Soil,	or Hydrology naturally probl	ematic? (If needed,	explain any answers in Remarks.)
SUMMARY OF FINDINGS – A	Attach site map showing samplir	ng point locations, trar	nsects, important features, etc.
Hydrophytic Vegetation Present?	? Yes No _ _/ _		
Hydric Soil Present?	Yes No	Is the Sampled Area withi	n a Wetland? Yes No/
		·	
Wetland Hydrology Present?	Yes No _ ∠	If yes, optional Wetland Si	te iD:
Remarks: (Explain alternative pro	ocedures here or in a separate report)		
TRC covertype is UPL. Recent rai	n		
HYDROLOGY			
Wetland Hydrology Indicators:			
Primary Indicators (minimum of	one is required; check all that apply)		Secondary Indicators (minimum of two required)
Surface Water (A1)	Water-Stained Lea		Surface Soil Cracks (B6)
High Water Table (A2)	Aquatic Fauna (B1		Drainage Patterns (B10)
Saturation (A3)	Marl Deposits (B1:		Moss Trim Lines (B16)
Water Marks (B1)	Hydrogen Sulfide		Dry-Season Water Table (C2) Crayfish Burrows (C8)
Sediment Deposits (B2)	Oxidized Rhizosph	neres on Living Roots (C3)	Crayiish Burrows (C6) Saturation Visible on Aerial Imagery (C9)
Drift Danasits (R3)	Prosonce of Padue	red Iron (CA)	Stunted or Stressed Plants (D1)
Drift Deposits (B3) Algal Mat or Crust (B4)	Presence of Reduc	tion in Tilled Soils (C6)	Geomorphic Position (D2)
Iron Deposits (B5)	Thin Muck Surface		Shallow Aquitard (D3)
Inundation Visible on Aerial I			Microtopographic Relief (D4)
Sparsely Vegetated Concave	· · · · · · · · · · · · · · · · · · ·	,	FAC-Neutral Test (D5)
Field Observations:			
Surface Water Present?	Yes No <u></u> ✓ Depth ((inches):	
Water Table Present?	•	(inches):	· Wetland Hydrology Present? Yes No✓
		· · · · · · · · · · · · · · · · · · ·	Wedana riyarology rresent.
Saturation Present?	Yes No Depth ((inches):	
(includes capillary fringe)			
Describe Recorded Data (stream	n gauge, monitoring well, aerial photos	s, previous inspections), if a	available:
Remarks:			

Tree Stratum (Plot size:30 ft)		Dominant		Dominance Test worksheet:		
1.	% Cover	Species?	Status	Number of Dominant Species Th Are OBL, FACW, or FAC:	o 0	(A)
2.				Total Number of Dominant Speci	es 2	(B)
3.				Across All Strata:		
4.				Percent of Dominant Species ThatAre OBL, FACW, or FAC:	t 0	(A/B)
5				Prevalence Index worksheet:		
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: 15 ft)				FAC species 0	x 3 =	0
1				- FACU species 45	x 4 =	180
2 3.				UPL species 0	x 5 =	0
4.				- Column Totals 45	(A)	180 (B)
5.			-	Prevalence Index = B/A	= _4	
6.				Hydrophytic Vegetation Indicator	s:	
7.				1- Rapid Test for Hydrophyt	c Vegetation	n
/·	0	= Total Cov	/er	2 - Dominance Test is > 50%		
Herb Stratum (Plot size:5 ft)		-	701	3 - Prevalence Index is ≤ 3.0		
1. Trifolium repens	30	Yes	FACU	4 - Morphological Adaptatio		supporting
Ambrosia artemisiifolia	15	Yes	FACU	data in Remarks or on a separate		
3.				 Problematic Hydrophytic Ve Indicators of hydric soil and wet 	_	•
4.				present, unless disturbed or prol	,	ogy must be
5.				Definitions of Vegetation Strata:	nematic	
6.				Tree – Woody plants 3 in. (7.6 cm) or more in	diameter at
7.				breast height (DBH), regardless of		alameter at
8.				Sapling/shrub – Woody plants les		DBH and
9.				greater than or equal to 3.28 ft (1	m) tall.	
10.				Herb – All herbaceous (non-wood		gardless of
11.	<u> </u>			size, and woody plants less than		
12.				Woody vines – All woody vines gr	eater than 3	3.28 ft in
	45	= Total Cov	/er	height.		
Woody Vine Stratum (Plot size: 30 ft)				Hydrophytic Vegetation Present	' Yes I	No <u> ✓ </u>
1				_		
2				_		
3.				_		
4				_		
	0	= Total Cov	/er			
Remarks: (Include photo numbers here or on a separat	e sheet.)					
·						

		the de				ndicator	or confirm the ab	osence of indicators.)
Depth	Matrix		Redox			12	T	D
	or (moist)	<u>%</u> _	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0 - 14 1	0YR 4/2	100					Silt Loam	
	_							
				_				
				_				
								
	_							
1Type: C = Censen	tration D = D		DM = Doducod	N/12+		Mackad	Cand Crains 21	pestion DI = Doro Lining M = Matrix
¹Type: C = Concen		ehierioi	i, Rivi – Reduced	ividtl	IX, IVIS =	iviaskeŭ	Janu Graffis. *LC	ocation: PL = Pore Lining, M = Matrix.
Hydric Soil Indicat	ors:		Daha I Da			0) (1.55.5	2 A41 D4 4 40D)	Indicators for Problematic Hydric Soils ³ :
Histosol (A1)	- (42)	-	-				R, MLRA 149B)	2 cm Muck (A10) (LRR K, L, MLRA 149B)
Histic Epipedo		-	Thin Dark Su Loamy Muck					Coast Prairie Redox (A16) (LRR K, L, R)
Black Histic (A: Hydrogen Sulf		-	Loamy Gleye			(LKK K, L	-)	5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
Stratified Laye		-	Loainy Gleye Depleted Ma					Dark Surface (S7) (LRR K, L)
,	. ,	- (∆111) ≘	Depleted Ma Redox Dark S					Polyvalue Below Surface (S8) (LRR K, L)
Thick Dark Sur		.c (/ (1 1)_	Depleted Dark					Thin Dark Surface (S9) (LRR K, L)
Sandy Mucky I		-	Redox Depre					Iron-Manganese Masses (F12) (LRR K, L, R)
Sandy Gleyed		-		55.5	5 (. 5)			Piedmont Floodplain Soils (F19) (MLRA 149B)
Sandy Redox (Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
Stripped Matri								Red Parent Material (F21)
Dark Surface (DA 140	D)					Very Shallow Dark Surface (TF12)
Dark Surface (3/) (LKK K, IVIL	.KA 149	D)					Other (Explain in Remarks)
³Indicators of hyd	rophytic vege	tation a	nd wetland hydr	ology	/ must be	e presen	t, unless disturbe	d or problematic.
Restrictive Layer (if observed):							
Type:			Compaction	-		Hydric	Soil Present?	Yes No <u>_</u> ✓
Depth	(inches):		14					
Remarks:								

Hydrology Photos



Vegetation Photos



Project/Site: Trelina	City/County: Ger	neva, Ontario		Sampling Date: 2019-June-27		
Applicant/Owner: NextEra		State: NY		Sampling Point: W-N	WJ-31; PEM-1	
Investigator(s): Nick DeJohn, N	late Jones	Section, Township,	Range:			
Landform (hillslope, terrace, etc.): Depression	Local relief (concave, conv	ex, none):_	Concave	Slope (%): 0-1	
Subregion (LRR or MLRA):L	_RR L	Lat: 42.870751088	5 Long:	-76.9791335241	Datum: WGS84	
Soil Map Unit Name: Collame	r silt loam, 0 to 2 percent slopes			NWI classificatio	n:	
Are climatic/hydrologic condition	ns on the site typical for this time of ye	ear? Yes No	_ _ (If no,	explain in Remarks.)		
Are Vegetation, Soil,	or Hydrology significantly di	sturbed? Are "Norm	al Circumsta	ances" present?	Yes No	
Are Vegetation, Soil,	or Hydrology naturally prob	lematic? (If needed,	explain any	answers in Remarks	.)	
SUMMARY OF FINDINGS – A	Attach site map showing sampli	ng point locations, trai	nsects, im	portant features,	etc.	
Hydrophytic Vegetation Present	:? Yes _ ✓ _ No					
Hydric Soil Present?	Yes _ _ No	Is the Sampled Area withi	in a Wetland	d? Yes	No	
_		i				
Wetland Hydrology Present?	Yes No	If yes, optional Wetland S	ite ib.	<u></u>	IWJ-31	
Remarks: (Explain alternative pr	ocedures here or in a separate report	t)				
TRC covertype is PEM. Wetter th	ian average year					
HYDROLOGY						
Wetland Hydrology Indicators:						
Primary Indicators (minimum of	f one is required; check all that apply)		-	Indicators (minimum	of two required)	
<u> ✓</u> Surface Water (A1)	Water-Stained Le			Soil Cracks (B6)		
<u>✓</u> High Water Table (A2)	∕ Aquatic Fauna (B1		,	ge Patterns (B10) rim Lines (B16)		
✓ Saturation (A3)	Marl Deposits (B1					
Water Marks (B1)	Hydrogen Sulfide		-	Dry-Season Water Table (C2) Crayfish Burrows (C8)		
Sediment Deposits (B2)	Oxidized Rnizosp	heres on Living Roots (C3)	Saturation Visible on Aerial Imagery (C9)			
Drift Deposits (B3)	Presence of Redu	ced Iron (C4)		d or Stressed Plants ([
Algal Mat or Crust (B4)		ction in Tilled Soils (C6)		orphic Position (D2)	51)	
Iron Deposits (B5)	Thin Muck Surfac			v Aquitard (D3)		
Inundation Visible on Aerial				ppographic Relief (D4))	
Sparsely Vegetated Concave	Surface (B8)		∕ FAC-Ne	eutral Test (D5)		
Field Observations:						
Surface Water Present?	Yes 🟒 No Depth	(inches): 3				
Water Table Present?	Yes No Depth	(inches): 0	Wetland H	ydrology Present?	Yes No	
Saturation Present?		(inches): 0	•			
(includes capillary fringe)			=			
	n gauge, monitoring well, aerial photo	s provious inspections) if	available.			
Describe Recorded Data (stream	n gauge, monitoring well, aeriai prioto	s, previous irispections), ii d	avaliable.			
Remarks:						

Tree Stratum (Plot size:30 ft)	Absolute	Dominant	Indicator	Dominance Test worksheet	t:		
1.	% Cover	Species?	Status	Number of Dominant Spec Are OBL, FACW, or FAC:	ies That	1	(A)
2.				Total Number of Dominant	Species	1	(B)
3				Across All Strata: Percent of Dominant Speci	es That		
4.				- Are OBL, FACW, or FAC:	es mac	100	(A/B)
56.				Prevalence Index workshee	et:		
7.				Total % Cover of:		Multiply B	<u>By:</u>
/·		= Total Cov		- OBL species	43	x 1 =	43
Capling/Chrub Stratum (Plat size) 15 ft		_ 10tal Cov	rei	FACW species	0	x 2 =	0
Sapling/Shrub Stratum (Plot size: 15 ft)				FAC species	0	x 3 =	0
1.				- FACU species	0	x 4 =	0
2.				- UPL species	0	x 5 =	0
3.				- Column Totals	43	(A)	43 (B)
4.				- Prevalence Index	c = B/A =	_1	
5.				Hydrophytic Vegetation Inc	dicators:		
6.				1- Rapid Test for Hydr		egetation	
7				2 - Dominance Test is		Ü	
	0	_= Total Cov	er er	3 - Prevalence Index is			
Herb Stratum (Plot size: <u>5 ft</u>)				4 - Morphological Ada		(Provide s	upporting
1. Alisma triviale	35	Yes	OBL	data in Remarks or on a se			
2. <i>Eleocharis palustris</i>	8	No	OBL	Problematic Hydroph	ytic Veget	ation¹ (Exp	olain)
3				Indicators of hydric soil an	nd wetland	d hydrolog	y must be
4.				present, unless disturbed of	or problen	natic	
5				Definitions of Vegetation S	trata:		
6				Tree – Woody plants 3 in. (7	7.6 cm) or	more in d	iameter at
7				breast height (DBH), regard	dless of he	eight.	
8				Sapling/shrub – Woody pla			BH and
9				greater than or equal to 3.2			
10				Herb – All herbaceous (nor		_	ardless of
11.				size, and woody plants less			
12.	<u> </u>			Woody vines – All woody vi	nes great	er than 3.2	28 ft in
	43	= Total Cov	ver	height.			
Woody Vine Stratum (Plot size:30 ft)	-	_		Hydrophytic Vegetation Pr	resent? Y	es 🟒 No	
1.							
2.				=			
3.				-			
4.				-			
	0	= Total Cov	/er	-			
		=					
Remarks: (Include photo numbers here or on a separat	e sneet.)						

(inches)	Matrix Color (moist)	%	Color (moist)	Featu %	Type ¹	Loc ²	Textu	ire Remarks
0 - 13	10YR 3/1	96	7.5YR 4/6	4	С	M	Silty Clay	
•	Concentration, D = I Indicators:	Depleti	on, RM = Reduced	Matri	x, MS =	Masked S	Sand Grains. ² Lo	ocation: PL = Pore Lining, M = Matrix. Indicators for Problematic Hydric Soils ³ :
Histoso	(A1)		Polyvalue Beld					2 cm Muck (A10) (LRR K, L, MLRA 149B)
Histic El Black Hi	oipedon (A2) stic (A3)		Thin Dark Sur Loamy Mucky					Coast Prairie Redox (A16) (LRR K, L, R) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
	en Sulfide (A4)		Loamy Gleyed					Dark Surface (S7) (LRR K, L)
	d Layers (A5)	(11	Depleted Mat					Polyvalue Below Surface (S8) (LRR K, L)
	d Below Dark Surfa ark Surface (A12)	ice (A i	Depleted Dark Si					Thin Dark Surface (S9) (LRR K, L)
	fucky Mineral (S1)		Redox Depres					Iron-Manganese Masses (F12) (LRR K, L, R)
•	Gleyed Matrix (S4)			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	, (, 0)			Piedmont Floodplain Soils (F19) (MLRA 149B)
-	ledox (S5)							Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
-	d Matrix (S6)							Red Parent Material (F21)
	rface (S7) (LRR R, M	ILRA 14	19B)					Very Shallow Dark Surface (TF12) Other (Explain in Remarks)
	of hydrophytic vege		and wetland hydro	ology	must be	e present	, unless disturbed	d or problematic.
Restrictive	Layer (if observed): Type:		Rocks/gravel			Hydric S	Soil Present?	Yes _✓_ No
	Depth (inches):		13			1		
Remarks:								

Hydrology Photos



Vegetation Photos



Project/Site: Trelina	City/County: Gen	eva, Ontario	Sampling Date: 2019-Jun			
Applicant/Owner: NextEra		State: NY	Sampling Point:	W-NWJ-31; PFO-1		
Investigator(s): Nick DeJohn, N	late Jones	Section, Township,	Range:			
Landform (hillslope, terrace, etc.): Depression	Local relief (concave, conv	ex, none): Concave	Slope (%): 0-1		
Subregion (LRR or MLRA): L	.RR L	Lat: 42.870642710	5 Long: -76.9796874841	Datum: WGS84		
Soil Map Unit Name: Niagara	silt loam		NWI classif	ication:		
Are climatic/hydrologic condition	ns on the site typical for this time of ye	ar? Yes No	_ ∠ (If no, explain in Rema	rks.)		
Are Vegetation, Soil,	or Hydrology significantly dis		al Circumstances" present?	Yes No		
Are Vegetation, Soil,	or Hydrology naturally probl	ematic? (If needed,	explain any answers in Ren	narks.)		
SUMMARY OF FINDINGS - A	Attach site map showing sampli	ng point locations, tra	nsects, important featu	res, etc.		
Hydrophytic Vegetation Present	? Yes No					
Hydric Soil Present?	Yes No	Is the Sampled Area with	n a Wetland?	Yes/_ No		
•		·				
Wetland Hydrology Present?	Yes No	If yes, optional Wetland S	ite iD.	W-NWJ-31		
Remarks: (Explain alternative pr	ocedures here or in a separate report)				
TRC covertype is PFO. Wetter the	an average year					
HYDROLOGY						
Wetland Hydrology Indicators:						
Primary Indicators (minimum of	one is required; check all that apply)		Secondary Indicators (mini	•		
<u></u> Surface Water (A1)	<u></u> Water-Stained Lea		Surface Soil Cracks (B6)			
<u>✓</u> High Water Table (A2)	Aquatic Fauna (B1		Drainage Patterns (B10)		
✓ Saturation (A3)	Marl Deposits (B1		Moss Trim Lines (B16) Dry-Season Water Table (C2)			
Water Marks (B1) Sediment Deposits (B2)	Hydrogen Sulfide	neres on Living Roots (C3)				
Sediment Deposits (B2)	Oxidized Rilizospi	ieres on Living Roots (C3)	Saturation Visible on A	erial Imagery (C9)		
Drift Deposits (B3)	Presence of Redu	ced Iron (C4)	Stunted or Stressed Pla			
Algal Mat or Crust (B4)		ction in Tilled Soils (C6)	Geomorphic Position (E			
Iron Deposits (B5)	Thin Muck Surface		Shallow Aquitard (D3)			
Inundation Visible on Aerial	Imagery (B7) Other (Explain in F	Remarks)	Microtopographic Relie	f (D4)		
Sparsely Vegetated Concave	Surface (B8)		<u>✓</u> FAC-Neutral Test (D5)			
Field Observations:						
Surface Water Present?	Yes No Depth	(inches): 1				
Water Table Present?	Yes No Depth	(inches): 0	Wetland Hydrology Presen	t? Yes No		
Saturation Present?	Yes _✓_ No Depth	(inches): 0	-			
(includes capillary fringe)		·				
	n gauge, monitoring well, aerial photo	nravious inspections) if	available:			
Describe Recorded Data (stream	T gauge, mornicornig well, aeriai prioco.	s, previous irispections), ir	avallable.			
Para autor						
Remarks:						

-	Absolute	Dominant	Indicator	Dominance Test worksheet:		
Tree Stratum (Plot size: 30 ft)		Species?	Status	Number of Dominant Species That		
1. Fraxinus pennsylvanica	50	Yes	FACW	Are OBL, FACW, or FAC:	4	(A)
2. Fagus grandifolia	15	Yes	FACU	Total Number of Dominant Species	5	(D)
3.				Across All Strata:		(B)
4.				Percent of Dominant Species That	80	(A/B)
5.				Are OBL, FACW, or FAC:		
6.				Prevalence Index worksheet:		
7.				Total % Cover of:	Multiply	<u>By:</u>
/·	65	= Total Cov	or	OBL species 0	x 1 =	0
Capling/Chruh Ctratum (Dlat size) 15 ft)		_ 10tal C0V	EI.	FACW species 85	x 2 =	170
Sapling/Shrub Stratum (Plot size:15 ft)				FAC species 15	x 3 =	45
1.				FACU species 15	x 4 =	60
2.				- UPL species 0	x 5 =	0
3.				- Column Totals 115	(A)	275 (B)
4				Prevalence Index = B/A =	2.4	
5				Hydrophytic Vegetation Indicators:		
6				1- Rapid Test for Hydrophytic \	/egetation	1
7				✓ 2 - Dominance Test is >50%		
	0	= Total Cov	er	\checkmark 3 - Prevalence Index is $\le 3.0^{\circ}$		
Herb Stratum (Plot size:5 ft)				4 - Morphological Adaptations	¹ (Provide	sunnorting
1. Fraxinus pennsylvanica	25	Yes	FACW	data in Remarks or on a separate sh		supporting
2. <i>Toxicodendron radicans</i>	15	Yes	FAC	- Problematic Hydrophytic Vege		(plain)
3. <i>Dryopteris carthusiana</i>	10	Yes	FACW	¹Indicators of hydric soil and wetlan		-
4.				present, unless disturbed or proble	-	8,
5.				Definitions of Vegetation Strata:		_
6.				Tree – Woody plants 3 in. (7.6 cm) or	r more in	diameter at
7.				breast height (DBH), regardless of h		
8.				Sapling/shrub – Woody plants less t	han 3 in. [DBH and
9.				greater than or equal to 3.28 ft (1 m		
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 vines grea	ter than 3	.28 ft in
	50	= Total Cov	 ⊃r	height.		
Woody Vine Stratum (Plot size:30 ft)		- Total Cov	- 1	Hydrophytic Vegetation Present?	Yes ∠ _ N	No
1.						
2.				-		
3.				-		
				-		
4		Tatal Care		-		
	0	= Total Cov	er ———			
Remarks: (Include photo numbers here or on a separa	ite sheet.)					

	cription: (Describe	to the de	-			ndicator	or confirm the ab	osence of indicat	ors.)
Depth _	Matrix		Redox			12	T		Davis subs
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type ¹	Loc²	Textu	-	Remarks
0 - 7	10YR 3/1	100					Silty Clay	-	
7 - 18	10YR 5/2	92	10YR 5/8	6	C	<u>M</u>	Silty C	lay	
				- —					
				- —			-		
				- —			-		
									·
				_					
				_					
				_					
¹Type: C = C	Concentration, D =	Depletio	n, RM = Reduced	Mat	rix, MS =	Masked	Sand Grains. ² Lo	ocation: PL = Por	e Lining, M = Matrix.
Hydric Soil	Indicators:			_				Indicators for P	Problematic Hydric Soils ³ :
Histosol			Polyvalue Bel	ow S	urface (S	8) (LRR F	R, MLRA 149B)	2 cm Muck	(A10) (LRR K, L, MLRA 149B)
	oipedon (A2)		Thin Dark Su						ie Redox (A16) (LRR K, L, R)
	istic (A3)		Loamy Mucky			(LRR K, L	.)		y Peat or Peat (S3) (LRR K, L, R)
-	en Sulfide (A4)		Loamy Gleye					-	ce (S7) (LRR K, L)
	d Layers (A5) d Below Dark Surfa	(411	Depleted Ma					Polyvalue B	Below Surface (S8) (LRR K, L)
	d Below Dark Surfa ark Surface (A12)	ace (ATT	Depleted Dark		. ,			Thin Dark S	Surface (S9) (LRR K, L)
	Mucky Mineral (S1)		Redox Depre			1		Iron-Manga	anese Masses (F12) (LRR K, L, R)
_	Gleyed Matrix (S4)		Redox Bepre	33101	13 (1 0)				loodplain Soils (F19) (MLRA 149B)
-	Redox (S5)								lic (TA6) (MLRA 144A, 145, 149B)
_	d Matrix (S6)							Red Parent	
	rface (S7) (LRR R, N	/I RΔ 1//	ar)					-	w Dark Surface (TF12)
Dark 3a	mace (37) (Littin, in	/ILIU (1-7.	,,,					Other (Expl	ain in Remarks)
-	of hydrophytic veg		and wetland hydr	olog	y must b	e presen	t, unless disturbe	d or problematic	<u>.</u>
	Layer (if observed):								
	Type:		None			Hydric	Soil Present?		Yes/_ No
	Depth (inches):								
Remarks:									
ı									
İ									

Hydrology Photos



Vegetation Photos





Project/Site: Trelina	(City/County: Gen	eva, Ontario	Sampling Date: 2019-June-27			
Applicant/Owner: NextEra			State: NY	Sampling Point:	W-NWJ-31; UPL-1		
Investigator(s): Nick DeJohn, N	ate Jones		Section, Township,	Range:			
Landform (hillslope, terrace, etc.)	: Agricultural Fi	eld	Local relief (concave, conv	ex, none): Flat	Slope (%): 0-1		
<u> </u>	RR L		Lat: 42.870509024	5 Long: -76.9793023843	Datum: WGS84		
Soil Map Unit Name: Collamer	silt loam, 0 to 2 per	cent slopes		NWI classif			
Are climatic/hydrologic condition		-		(If no, explain in Rema	rks.)		
Are Vegetation, Soil,	or Hydrology			al Circumstances" present?			
Are Vegetation, Soil,	or Hydrology	naturally prob	ematic? (If needed,	explain any answers in Rer	narks.)		
SUMMARY OF FINDINGS – A	ttach site map sh	nowing sampli	ng point locations, trar	nsects, important featu	res, etc.		
Hydrophytic Vegetation Present	? Yes	No / _					
Hydric Soil Present?		No	Is the Sampled Area withi	n a Wetland?	Yes No∕_		
			·		165 110 <u></u>		
Wetland Hydrology Present?		No / _	If yes, optional Wetland S	ite ID:			
Remarks: (Explain alternative pro	ocedures here or in a	a separate report)				
TRC covertype is UPL. Wetter tha	an average year						
LIVEROLOGY							
HYDROLOGY							
Wetland Hydrology Indicators:							
Primary Indicators (minimum of	one is required; che	ck all that apply)		Secondary Indicators (min	imum of two required)		
Surface Water (A1)		Water-Stained Lea	aves (R9)	Surface Soil Cracks (B6)		
High Water Table (A2)		Aquatic Fauna (B1		Drainage Patterns (B10))		
Saturation (A3)		Marl Deposits (B1		Moss Trim Lines (B16)			
Water Marks (B1)		Hydrogen Sulfide		_ Dry-Season Water Table (C2)			
Sediment Deposits (B2)	(Oxidized Rhizospl	neres on Living Roots (C3)	Crayfish Burrows (C8)			
				Saturation Visible on A			
Drift Deposits (B3)		Presence of Redu		Stunted or Stressed Pla			
Algal Mat or Crust (B4)			ction in Tilled Soils (C6)	Geomorphic Position (D2)		
Iron Deposits (B5)		Thin Muck Surface		Shallow Aquitard (D3)	5 (5.4)		
Inundation Visible on Aerial I		Other (Explain in l	Remarks)	Microtopographic Relie	±f (D4)		
Sparsely Vegetated Concave	Surface (B8)			FAC-Neutral Test (D5)			
Field Observations:							
Surface Water Present?	Yes No	<u>Z</u> Depth	(inches):	-			
Water Table Present?	Yes No	<u>′</u> Depth	(inches):	Wetland Hydrology Preser	nt? Yes No		
Saturation Present?	Yes No	<u>′</u> Depth	(inches):				
(includes capillary fringe)				-			
Describe Recorded Data (stream	n gauge, monitoring	well, aerial photo	s, previous inspections), if a	available:			
2 050.130 11000.000 2010 (50.001.	. 84484,	, ac. a. p	s, p. c., oussp cc				
Para andres	_				_		
Remarks:							

Tree Stratum (Plot size:30 ft)	Absolute	Dominant	Indicator	Dominance Test worksheet:		
1.	% Cover	Species?	Status	Number of Dominant Species T Are OBL, FACW, or FAC:	nat 1	(A)
2.			-	Total Number of Dominant Spe	ies 2	(B)
3.				Across All Strata:		
4				Percent of Dominant Species ThAre OBL, FACW, or FAC:	at 50	(A/B)
5			-	Prevalence Index worksheet:		
6				- Total % Cover of:	Multiply	By:
7				- OBL species 0	x 1 =	0
	0	= Total Co	ver	FACW species 0	x 2 =	0
Sapling/Shrub Stratum (Plot size: 15 ft)				FAC species 30	x 3 =	90
1				- FACU species 30	x 4 =	120
2				- UPL species 0	x 5 =	0
3				- Column Totals 60	(A)	210 (B)
4				Prevalence Index = B/	\ = <u>3.5</u>	
5				Hydrophytic Vegetation Indicate	rs:	
6.				1- Rapid Test for Hydrophy		า
7				2 - Dominance Test is > 50	_	
	0	_= Total Co	ver	3 - Prevalence Index is ≤ 3	O ¹	
Herb Stratum (Plot size: <u>5 ft</u>)		.,		4 - Morphological Adaptati	ons¹ (Provide	supporting
1. Trifolium repens	30	Yes	FACU	data in Remarks or on a separa	e sheet)	
2. Juncus tenuis	30	Yes	FAC	Problematic Hydrophytic \	egetation¹ (E	xplain)
3			-	landicators of hydric soil and we	,	gy must be
4			-	_ present, unless disturbed or pro		
5				_ Definitions of Vegetation Strata		
6.				_ Tree – Woody plants 3 in. (7.6 cr		diameter at
7				breast height (DBH), regardless		
8.				Sapling/shrub - Woody plants le		DBH and
9.				greater than or equal to 3.28 ft Herb – All herbaceous (non-woo		gardless of
10				size, and woody plants less than		gardiess of
11.			-	Woody vines – All woody vines g		3.28 ft in
12			-	height.		
	60	_= Total Co	ver	Hydrophytic Vegetation Presen	7 Yes 1	No ./
Woody Vine Stratum (Plot size: 30 ft)				Trydrophlyde Vegetation Tresent	. 1031	10_
1.				_		
2.				_		
3				_		
4				_		
	0	_= Total Co	ver			
Remarks: (Include photo numbers here or on a separat	e sheet.)					

Depth	•	to the di	•			ndicator	or confirm the ab	bsence of i	ndicators.)
	Matrix		Redox				- .		
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type ¹	Loc ²	Texture		Remarks
0 - 20	10YR 4/3	100					Silt Loam	<u> </u>	
				-					
¹Tvpe: C = 0	Concentration, D =	 Depletio	n. RM = Reduced	Matr	rix. MS =	Masked S	Sand Grains. ² Lo	ocation: PL	= Pore Lining, M = Matrix.
Hydric Soil			,,,,,,,,		,				s for Problematic Hydric Soils ³ :
Histoso			Polyvalue Be	low S	urface (S	8) (I RR R	MI RA 149R)		,
	pipedon (A2)		Thin Dark Su						Muck (A10) (LRR K, L, MLRA 149B)
	istic (A3)		Loamy Muck						Prairie Redox (A16) (LRR K, L, R)
	en Sulfide (A4)		Loamy Gleye	d Ma	trix (F2)				Mucky Peat or Peat (S3) (LRR K, L, R) Surface (S7) (LRR K, L)
Stratifie	d Layers (A5)		Depleted Ma	trix (F	-3)				alue Below Surface (S8) (LRR K, L)
Deplete	d Below Dark Surfa	ace (A11) Redox Dark S	Surfac	ce (F6)			-	Dark Surface (S9) (LRR K, L)
	ark Surface (A12)		Depleted Dar						Manganese Masses (F12) (LRR K, L, R)
Sandy N	Mucky Mineral (S1)		Redox Depre	ssion	ıs (F8)				nont Floodplain Soils (F19) (MLRA 149B)
Sandy 0	Gleyed Matrix (S4)								Spodic (TA6) (MLRA 144A, 145, 149B)
Sandy F	Redox (S5)								Parent Material (F21)
Strippe	d Matrix (S6)								Shallow Dark Surface (TF12)
			אסט						r (Explain in Remarks)
Dark Su	ırface (S7) (LRR R, N	/ILRA 14	(סל						(=
							I a a a a disaka a da a		
3Indicators	of hydrophytic veg	etation		rology	y must be	e present	, unless disturbe		ematic.
3Indicators	of hydrophytic veg Layer (if observed):	etation	and wetland hydr	rology	y must be			d or proble	
3Indicators	of hydrophytic veg Layer (if observed): Type:	etation		rology -	y must be		, unless disturbe	d or proble	ematic. Yes No⁄_
³ Indicators Restrictive	of hydrophytic veg Layer (if observed):	etation	and wetland hydr	rology -	y must be			d or proble	
3Indicators	of hydrophytic veg Layer (if observed): Type:	etation	and wetland hydr	rology -	y must be			d or proble	
³ Indicators Restrictive	of hydrophytic veg Layer (if observed): Type:	etation	and wetland hydr	rology -	y must be			d or proble	
³ Indicators Restrictive	of hydrophytic veg Layer (if observed): Type:	etation	and wetland hydr	rology	y must be			d or proble	
³ Indicators Restrictive	of hydrophytic veg Layer (if observed): Type:	etation	and wetland hydr	rology -	y must be			d or proble	
³ Indicators Restrictive	of hydrophytic veg Layer (if observed): Type:	etation	and wetland hydr	rology	y must be			d or proble	
³ Indicators Restrictive	of hydrophytic veg Layer (if observed): Type:	etation	and wetland hydr	rology -	y must be			d or proble	
³ Indicators Restrictive	of hydrophytic veg Layer (if observed): Type:	etation	and wetland hydr	rology -	y must be			d or proble	
³ Indicators Restrictive	of hydrophytic veg Layer (if observed): Type:	etation	and wetland hydr	rology -	y must be			d or proble	
³ Indicators Restrictive	of hydrophytic veg Layer (if observed): Type:	etation	and wetland hydr	rolog	y must be			d or proble	
³ Indicators Restrictive	of hydrophytic veg Layer (if observed): Type:	etation	and wetland hydr	rology -	y must be			d or proble	
³ Indicators Restrictive	of hydrophytic veg Layer (if observed): Type:	etation	and wetland hydr	rology -	y must be			d or proble	
³ Indicators Restrictive	of hydrophytic veg Layer (if observed): Type:	etation	and wetland hydr	rology -	y must be			d or proble	
³ Indicators Restrictive	of hydrophytic veg Layer (if observed): Type:	etation	and wetland hydr	rolog	y must be			d or proble	
³ Indicators Restrictive	of hydrophytic veg Layer (if observed): Type:	etation	and wetland hydr	rolog	y must be			d or proble	
³ Indicators Restrictive	of hydrophytic veg Layer (if observed): Type:	etation	and wetland hydr	rolog	y must be			d or proble	
³ Indicators Restrictive	of hydrophytic veg Layer (if observed): Type:	etation	and wetland hydr	rolog	y must be			d or proble	
³ Indicators Restrictive	of hydrophytic veg Layer (if observed): Type:	etation	and wetland hydr	rolog	y must be			d or proble	
³ Indicators Restrictive	of hydrophytic veg Layer (if observed): Type:	etation	and wetland hydr	rolog	y must be			d or proble	
³ Indicators Restrictive	of hydrophytic veg Layer (if observed): Type:	etation	and wetland hydr	rolog	y must be			d or proble	

Vegetation Photos



Project/Site: Trelina	City/County: Gen	ieva, Ontario		Sampling Date: 2019-June-27		
Applicant/Owner: NextEra		State: NY		Sampling Point: W-N	NJ-32; PEM-1	
Investigator(s): Nick DeJohn, N	Nate Jones	Section, Township,	, Range:			
Landform (hillslope, terrace, etc.	.): Depression	Local relief (concave, conv	vex, none):_	Flat	Slope (%): 0-1	
Subregion (LRR or MLRA):	LRR L	Lat: 42.869952118	39 Long:	-76.9795437849	Datum: WGS84	
Soil Map Unit Name: Clavera	ck loamy fine sand, 0 to 2 percent slop	es		NWI classificatio	n:	
Are climatic/hydrologic condition	ns on the site typical for this time of ye	ear? Yes No	o <u> </u>	explain in Remarks.)		
Are Vegetation, Soil,				·	Yes No	
Are Vegetation, Soil,	or Hydrology naturally prob	lematic? (If needed,	, explain an	y answers in Remarks.	.)	
SUMMARY OF FINDINGS - A	Attach site map showing sampli	ng point locations, tra	nsects, im	iportant features,	etc.	
Hydrophytic Vegetation Presen	t? Yes No					
Hydric Soil Present?	Yes _ ✓ No	Is the Sampled Area with	in a Wetland	d? Yes	No	
Wetland Hydrology Present?	Yes No	If yes, optional Wetland S			 IWJ-32	
			oite iD.		1VVJ-32	
Remarks: (Explain alternative pi	rocedures here or in a separate report	E)				
TRC covertype is PEM. Wetter th	nan average year					
HYDROLOGY						
					_	
Wetland Hydrology Indicators:						
<u>Primary Indicators (minimum o</u>	of one is required; check all that apply)		-	/ Indicators (minimum	of two required)	
Surface Water (A1)	Water-Stained Lea			e Soil Cracks (B6)		
✓ High Water Table (A2)	Aquatic Fauna (B1			Drainage Patterns (B10) Moss Trim Lines (B16)		
✓ Saturation (A3)	Marl Deposits (B1			ason Water Table (C2)		
Water Marks (B1) Sediment Deposits (B2)	Hydrogen Sulfide	heres on Living Roots (C3)	Crayfis			
Sediment Deposits (B2)	Oxidized Kriizospi	neres on Living Roots (C3)	-	tion Visible on Aerial I	magery (C9)	
Drift Deposits (B3)	Presence of Redu	ced Iron (C4)		d or Stressed Plants ([
Algal Mat or Crust (B4)		ction in Tilled Soils (C6)		_ Geomorphic Position (D2)		
Iron Deposits (B5)	Thin Muck Surface	e (C7)		w Aquitard (D3)		
Inundation Visible on Aerial	Imagery (B7) Other (Explain in l	Remarks)	Microt	opographic Relief (D4))	
Sparsely Vegetated Concave	e Surface (B8)		∕ FAC-Ne	eutral Test (D5)		
Field Observations:						
Surface Water Present?	Yes No Depth	(inches):	_			
Water Table Present?	Yes _ 🗸 No Depth	(inches): 4	Wetland H	Hydrology Present?	Yes No	
Saturation Present?	Yes _✓_ No Depth	(inches): 0	_			
(includes capillary fringe)		· · · · —	-			
	m gauge, monitoring well, aerial photo	c provious inspections) if	available:			
Describe Recorded Data (stream	in gauge, monitoring well, aeriai prioto	s, previous irispections), ir	avallable.			
Daniel and an						
Remarks:						

Turn Sharkara (Disk sizer 20 ft)	Absolute	Dominant	Indicator	Dominance Test worksheet:		
<u>Tree Stratum</u> (Plot size: <u>30 ft</u>)	% Cover	Species?	Status	Number of Dominant Species That	4	(A)
1. Fraxinus pennsylvanica	10	Yes	FACW	Are OBL, FACW, or FAC:		(A)
2. Salix nigra	5	Yes	OBL	Total Number of Dominant Species	4	(B)
3.				Across All Strata:		
4.				Percent of Dominant Species That	100	(A/B)
5.				Are OBL, FACW, or FAC:		`_
6.				Prevalence Index worksheet:		_
7.				Total % Cover of:	Multiply I	-
· -	15	= Total Cov	er	- OBL species 5	x 1 =	5
Sapling/Shrub Stratum (Plot size:15 ft)		-		FACW species 63	x 2 =	126
1. Rhamnus cathartica	10	Yes	FAC	FAC species 10	x 3 =	30
2.				FACU species 0	x 4 =	0
3.				- UPL species 0	x 5 =	0
4.				- Column Totals 78	(A)	161 (B)
5.				Prevalence Index = B/A =	2.1	
6.				Hydrophytic Vegetation Indicators:		
· -				1- Rapid Test for Hydrophytic \	egetation/	
7		Tatal Car		_ ✓ 2 - Dominance Test is >50%		
	10	_= Total Cov	er	\checkmark 3 - Prevalence Index is ≤ 3.01		
Herb Stratum (Plot size:5 ft)	25	\/	FACIAL	4 - Morphological Adaptations	(Provide s	supporting
1. Phragmites australis	35	Yes	FACW	data in Remarks or on a separate sh	neet)	
2. Onoclea sensibilis	10	No	FACW	Problematic Hydrophytic Vege	tation¹ (Ex	plain)
3. <i>Fraxinus pennsylvanica</i>	8	No	FACW	- ¹ Indicators of hydric soil and wetlan	d hydrolog	gy must be
4				present, unless disturbed or proble	matic	
5				Definitions of Vegetation Strata:		
6				Tree – Woody plants 3 in. (7.6 cm) or		liameter at
7				breast height (DBH), regardless of h	_	
8				Sapling/shrub – Woody plants less t		BH and
9.				greater than or equal to 3.28 ft (1 m		
10				Herb – All herbaceous (non-woody)		gardless of
11				size, and woody plants less than 3.2		20.6:
12				Woody vines – All woody vines great	ter than 3	28 ft in
	53	= Total Cov	er	height.		
Woody Vine Stratum (Plot size: 30 ft)				Hydrophytic Vegetation Present?	∕es <u> </u>	0
1						
2.						
3.				-		
4.				-		
	0	= Total Cov	er			
Remarks: (Include photo numbers here or on a separat		_				
Remarks: (include prioto numbers here or on a separal	e sneet.)					

Depth _	Matrix			x Fea			_		
(inches) 0 - 12	Color (moist)	<u>%</u>	Color (moist)	<u>%</u> 4	Type ¹	Loc²	Texts		Remarks
0-12	10YR 2/1	96	5YR 4/6	4	C	M/PL	Silty Clay	/ LOAIII	
		_		-					
-				_					
		_		_					
		_							
				- —					
		- —		- —					
				-					
		_		-					
Tyne: C = 0	Concentration, D =	 Denlet	ion RM = Reduce	 d Ma	triy MS :	= Masked	Sand Grains 21.	ocation: PL = Pore	Lining M = Matrix
•	Indicators:	Depice	ion, Rivi Reduce	a ivia	ti ix, ivis	Waskea	Sana Grains. L		oblematic Hydric Soils³:
Histoso			Polyvalue B	elow	Surface (S8) (LRR R	, MLRA 149B)		.10) (LRR K, L, MLRA 149B)
	oipedon (A2)		Thin Dark S						Redox (A16) (LRR K, L, R)
Black Hi	` ,		Loamy Muc	-)		Peat or Peat (S3) (LRR K, L, R)
	en Sulfide (A4)		Loamy Gley					Dark Surface	
	d Layers (A5)		Depleted M						ow Surface (S8) (LRR K, L)
'	d Below Dark Surfa	ace (A1				7)		Thin Dark Su	rface (S9) (LRR K, L)
	ark Surface (A12) Jucky Mineral (S1)		Depleted Da			/)		Iron-Mangan	ese Masses (F12) (LRR K, L, R)
	•		Redox Depr	essic) S (FO)			Piedmont Flo	odplain Soils (F19) (MLRA 149B)
-	ileyed Matrix (S4)							Mesic Spodic	(TA6) (MLRA 144A, 145, 149B)
-	edox (S5)							Red Parent M	laterial (F21)
	d Matrix (S6)		405)					Very Shallow	Dark Surface (TF12)
Dark Su	rface (S7) (LRR R, N	ILKA 1	49B)					Other (Explai	n in Remarks)
Indicators	of hydrophytic veg	etation	and wetland hyd	drolo	gy must l	oe present	t, unless disturbe	d or problematic.	
estrictive l	_ayer (if observed):								
	Type:		Compaction			Hydric S	oil Present?	Y	es No
	Depth (inches):		12						
demarks:									

Hydrology Photos



Vegetation Photos





Project/Site: Trelina	City/County: Gene	eva, Ontario	Sampling I	Date: 2019-June-27		
Applicant/Owner: NextEr	a	State: NY	Sampling Po	int: W-NWJ-32; PFO-1		
Investigator(s): Nick DeJo	hn, Nate Jones	Section, Township,	Range:			
Landform (hillslope, terrace	, etc.): Depression	Local relief (concave, conve	ex, none): Concave	Slope (%): 0-1		
Subregion (LRR or MLRA):	LRR L	Lat: 42.870173952	Long: -76.9793869	9928 Datum: WGS84		
Soil Map Unit Name: Clav	verack loamy fine sand, 0 to 2 percent slope	<u>;</u> S	NWI cla	assification:		
Are climatic/hydrologic cond	ditions on the site typical for this time of yea	ar? Yes No	_ ∠ (If no, explain in Re	emarks.)		
Are Vegetation, Soil _			al Circumstances" prese	ent? Yes 🟒 No		
Are Vegetation, Soil _	, or Hydrology naturally proble	ematic? (If needed,	explain any answers in	Remarks.)		
SUMMARY OF FINDING	S – Attach site map showing samplir	ng point locations, tran	sects, important fe	atures, etc.		
Hydrophytic Vegetation Pre	esent? Yes _ 🗸 No					
Hydric Soil Present?	Yes No	Is the Sampled Area within	n a Wetland?	Yes/_ No		
		·				
Wetland Hydrology Present		If yes, optional Wetland Si	te iD.	W-NWJ-32		
Remarks: (Explain alternativ	ve procedures here or in a separate report)	1				
I						
TRC covertype is PFO. Wette	er than average year					
31	0 7					
HYDROLOGY						
Wetland Hydrology Indicate	ors:					
	im of one is required; check all that apply)		Secondary Indicators (minimum of two required)		
•			Surface Soil Cracks	•		
✓ Surface Water (A1)	_ <u>✓</u> Water-Stained Lea Aquatic Fauna (B1:		Drainage Patterns (B10)			
✓ High Water Table (A2)✓ Saturation (A3)	Aquatic Fauria (B.). Marl Deposits (B15		Moss Trim Lines (B16)			
Water Marks (B1)	Hydrogen Sulfide (Dry-Season Water Table (C2)			
Sediment Deposits (B2)	, ,					
500	<u> </u>		Saturation Visible on Aerial Imagery (C9)			
Drift Deposits (B3)	Presence of Reduc	ced Iron (C4)	Stunted or Stressed Plants (D1)			
Algal Mat or Crust (B4)	Recent Iron Reduc	tion in Tilled Soils (C6)	Geomorphic Position (D2)			
Iron Deposits (B5)	Thin Muck Surface	e (C7)	Shallow Aquitard ([)3)		
Inundation Visible on A	erial Imagery (B7) Other (Explain in R	lemarks)	Microtopographic F	Relief (D4)		
Sparsely Vegetated Con	cave Surface (B8)		✓ FAC-Neutral Test (D	95)		
Field Observations:						
Surface Water Present?	Yes No Depth	(inches): 2				
Water Table Present?	Yes No Depth	(inches): 0	Wetland Hydrology Pre	esent? Yes No		
Saturation Present?	Yes _ ✓ No Depth	(inches): 0				
(includes capillary fringe)						
. , , , ,	tream gauge, monitoring well, aerial photos	nrovious inspections) if s	vailable:			
Describe Recorded Data (Si	ream gauge, monitoring well, aeriai priotos	s, previous irispections), ii a	valiable.			
Remarks:						

	Absolute	Dominant	Indicator	Dominance Test worksheet:		
<u>Tree Stratum</u> (Plot size: <u>30 ft</u>)		Species?	Status	Number of Dominant Species That	_	445
1. Acer rubrum	50	Yes	FAC	Are OBL, FACW, or FAC:	5	(A)
2. Fraxinus pennsylvanica	35	Yes	FACW	Total Number of Dominant Species	5	(D)
3.				Across All Strata:		(B)
4.				Percent of Dominant Species That	100	(A/B)
5.				Are OBL, FACW, or FAC:		(/ (/ D)
6.				Prevalence Index worksheet:		
7.				Total % Cover of:	Multiply I	<u>By:</u>
/·	 85	= Total Cove		OBL species 15	x 1 =	15
Capling/Chrush Ctratum (Dlat cizes 15 ft)	- 63	- TOTAL COV	=1	FACW species 42	x 2 =	84
Sapling/Shrub Stratum (Plot size: 15 ft)				FAC species 60	x 3 =	180
1.				FACU species 0	x 4 =	0
2.				UPL species 0	x 5 =	0
3				Column Totals 117	(A)	279 (B)
4				Prevalence Index = B/A =	2.4	
5				Hydrophytic Vegetation Indicators:	,	
6				1- Rapid Test for Hydrophytic \	√egetation	
7				2 - Dominance Test is >50%	.0	
	0	= Total Cove	er	\checkmark 3 - Prevalence Index is \le 3.01		
Herb Stratum (Plot size: <u>5 ft</u>)				4 - Morphological Adaptations	¹ (Provide :	supporting
1. Carex crinita	15	Yes	OBL	data in Remarks or on a separate sh		
2. <u>Toxicodendron radicans</u>	10	Yes	FAC	Problematic Hydrophytic Vege		plain)
3. <i>Onoclea sensibilis</i>	7	Yes	FACW	¹Indicators of hydric soil and wetlan	d hydrolog	gy must be
4				present, unless disturbed or proble	matic	
5				Definitions of Vegetation Strata:		
6				Tree – Woody plants 3 in. (7.6 cm) o	r more in c	diameter at
7				breast height (DBH), regardless of h	eight.	
8.				Sapling/shrub – Woody plants less t	han 3 in. D	BH and
9.				greater than or equal to 3.28 ft (1 m	ı) tall.	
10.				Herb – All herbaceous (non-woody)		gardless of
11				size, and woody plants less than 3.2		
12.				Woody vines – All woody vines grea	ter than 3.	28 ft in
	32	= Total Cove	er	height.		
Woody Vine Stratum (Plot size:30 ft)		-		Hydrophytic Vegetation Present?	Yes 🟒 N	0
1.						
2.				•		
3.						
4.						
	0	= Total Cove	er			
		•				
Remarks: (Include photo numbers here or on a separat	e sheet.)					

Stratified Layers (A5) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149) **Indicators of hydrophytic vegetation a Restrictive Layer (if observed):	n, RM = Reduced Matrix, Polyvalue Below Surfa Thin Dark Surface (S9 Loamy Mucky Minera Loamy Gleyed Matrix Depleted Matrix (F3)	MS = Masked Sand Grains. MS = Masked Sand Grains. MC Silty MS = Masked Sand Grains. MC SIIty MS = Masked Sand Grains.	Indicators for Problematic Hydric Soils ³ :
1Type: C = Concentration, D = Depletion Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149) 3Indicators of hydrophytic vegetation a Restrictive Layer (if observed): Type: Depth (inches):	n, RM = Reduced Matrix, Polyvalue Below Surfa Thin Dark Surface (S9 Loamy Mucky Minera Loamy Gleyed Matrix Depleted Matrix (F3) Redox Dark Surface (I Depleted Dark Surface	MS = Masked Sand Grains. MS = Masked Sand Grains. ace (S8) (LRR R, MLRA 149B) (JURR R, MLRA 149B) (F1) (LRR K, L) (F2) 6) e (F7)	s. ² Location: PL = Pore Lining, M = Matrix. Indicators for Problematic Hydric Soils ³ : B) 2 cm Muck (A10) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (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) Iron-Manganese Masses (F12) (LRR K, L, R)
Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149) Indicators of hydrophytic vegetation a Restrictive Layer (if observed): Type: Depth (inches):	Polyvalue Below Surface (S9 Loamy Mucky Minera Loamy Gleyed Matrix Depleted Matrix (F3) Redox Dark Surface (I	ace (S8) (LRR R, MLRA 149B)) (LRR R, MLRA 149B) (F1) (LRR K, L) (F2) =6)	Indicators for Problematic Hydric Soils ³ : B) 2 cm Muck (A10) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (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) Iron-Manganese Masses (F12) (LRR K, L, R)
Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149) **Indicators of hydrophytic vegetation a Restrictive Layer (if observed): Type: Depth (inches):	Polyvalue Below Surface (S9 Loamy Mucky Minera Loamy Gleyed Matrix Depleted Matrix (F3) Redox Dark Surface (I	ace (S8) (LRR R, MLRA 149B)) (LRR R, MLRA 149B) (F1) (LRR K, L) (F2) =6)	Indicators for Problematic Hydric Soils ³ : B) 2 cm Muck (A10) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (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) Iron-Manganese Masses (F12) (LRR K, L, R)
Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149) **Indicators of hydrophytic vegetation a Restrictive Layer (if observed): Type: Depth (inches):	Polyvalue Below Surface (S9 Loamy Mucky Minera Loamy Gleyed Matrix Depleted Matrix (F3) Redox Dark Surface (I	ace (S8) (LRR R, MLRA 149B)) (LRR R, MLRA 149B) (F1) (LRR K, L) (F2) =6)	Indicators for Problematic Hydric Soils ³ : B) 2 cm Muck (A10) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (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) Iron-Manganese Masses (F12) (LRR K, L, R)
Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149) **Indicators of hydrophytic vegetation a Restrictive Layer (if observed): Type: Depth (inches):	Polyvalue Below Surface (S9 Loamy Mucky Minera Loamy Gleyed Matrix Depleted Matrix (F3) Redox Dark Surface (I	ace (S8) (LRR R, MLRA 149B)) (LRR R, MLRA 149B) (F1) (LRR K, L) (F2) =6)	Indicators for Problematic Hydric Soils ³ : B) 2 cm Muck (A10) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (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) Iron-Manganese Masses (F12) (LRR K, L, R)
Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149) **Indicators of hydrophytic vegetation a Restrictive Layer (if observed): Type: Depth (inches):	Polyvalue Below Surface (S9 Loamy Mucky Minera Loamy Gleyed Matrix Depleted Matrix (F3) Redox Dark Surface (I	ace (S8) (LRR R, MLRA 149B)) (LRR R, MLRA 149B) (F1) (LRR K, L) (F2) =6)	Indicators for Problematic Hydric Soils ³ : B) 2 cm Muck (A10) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (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) Iron-Manganese Masses (F12) (LRR K, L, R)
Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149) **Indicators of hydrophytic vegetation a Restrictive Layer (if observed): Type: Depth (inches):	Polyvalue Below Surface (S9 Loamy Mucky Minera Loamy Gleyed Matrix Depleted Matrix (F3) Redox Dark Surface (I	ace (S8) (LRR R, MLRA 149B)) (LRR R, MLRA 149B) (F1) (LRR K, L) (F2) =6)	Indicators for Problematic Hydric Soils ³ : B) 2 cm Muck (A10) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (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) Iron-Manganese Masses (F12) (LRR K, L, R)
Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149) **Indicators of hydrophytic vegetation a Restrictive Layer (if observed): Type: Depth (inches):	Thin Dark Surface (S9 Loamy Mucky Minera Loamy Gleyed Matrix Depleted Matrix (F3) Redox Dark Surface (I Depleted Dark Surface) (LRR R, MLRA 149B) (F1) (LRR K, L) (F2) -6) e (F7)	B) 2 cm Muck (A10) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (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) Iron-Manganese Masses (F12) (LRR K, L, R)
Restrictive Layer (if observed): Type: Depth (inches):		ust he present unless distu	 Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Other (Explain in Remarks)
Type: R Depth (inches):	ina wedana nyarology m	dat be present, unless diste	tarbed of problematic.
Depth (inches):	ocks/gravel	Hydric Soil Present?	? Yes No
	12	,	

Hydrology Photos



Vegetation Photos





Project/Site: Trelina	City/County: Ger	neva, Seneca	Sampling Date: 2019-June-27			
Applicant/Owner: NextEra		State: NY	State: NY Sampling Point: W-NWJ-32			
Investigator(s): Nick DeJohn, Na	ate Jones	Section, Township,	Range:			
Landform (hillslope, terrace, etc.):	Agricultural Field	Local relief (concave, conv	ex, none): Flat	Slope (%): 0-1		
Subregion (LRR or MLRA):	RR L	Lat: 42.881963	Long: -76.945099	Datum: WGS84		
Soil Map Unit Name: Claverack	loamy fine sand, 0 to 2 percent		NWI classificat	ion:		
Are climatic/hydrologic conditions	s on the site typical for this time of ye	ear? Yes <u>✓</u> No	(If no, explain in Remarks	i.)		
Are Vegetation, Soil,	or Hydrology significantly di		al Circumstances" present?	Yes No		
Are Vegetation, Soil,	or Hydrology naturally prob	lematic? (If needed,	explain any answers in Remark	(s.)		
SUMMARY OF FINDINGS – A	ttach site map showing sampli	ng point locations, trai	nsects, important features	, etc.		
Hydrophytic Vegetation Present?	Yes No _✓					
Hydric Soil Present?	Yes No	Is the Sampled Area withi	n a Wetland? V	es No		
•		·		es NO _ / _		
Wetland Hydrology Present?	Yes No _ _ _	If yes, optional Wetland S	ite ID:			
Remarks: (Explain alternative pro	ocedures here or in a separate report	t)				
TRC covertype is UPL. Circumsta	nces are not normal due to agricultu	ral activities				
LIVEROLOGY						
HYDROLOGY						
Wetland Hydrology Indicators:						
Primary Indicators (minimum of	one is required; check all that apply)		Secondary Indicators (minimu	m of two required)		
Surface Water (A1)	Water-Stained Le	aves (B9)	Surface Soil Cracks (B6)			
High Water Table (A2)	Aquatic Fauna (B		Drainage Patterns (B10)			
Saturation (A3)	Marl Deposits (B1		Moss Trim Lines (B16)			
Water Marks (B1)	Hydrogen Sulfide	Odor (C1)	Dry-Season Water Table (C2)			
Sediment Deposits (B2)	Oxidized Rhizosp	heres on Living Roots (C3)				
			Saturation Visible on Aeria			
Drift Deposits (B3)	Presence of Redu		Stunted or Stressed Plants (D1)			
Algal Mat or Crust (B4)		ction in Tilled Soils (C6)	Geomorphic Position (D2)			
Iron Deposits (B5)	Thin Muck Surfac		Shallow Aquitard (D3)	4)		
Inundation Visible on Aerial II		Remarks)	Microtopographic Relief (D	4)		
Sparsely Vegetated Concave S	Surface (B8)		FAC-Neutral Test (D5)			
Field Observations:		<i>a</i>				
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)		·				
	gauge, monitoring well, aerial photo	s. previous inspections), if	available:			
	88-,	-, p,				
Remarks:						
Remarks.						

Tree Stratum (Plot size:30 ft)	Absolute	Dominant	Indicator	Dominance Test worksl	neet:		
1.	% Cover	Species?	Status	Number of Dominant S Are OBL, FACW, or FAC:		0	(A)
2.				Total Number of Domir	ant Species	1	(B)
3.				Across All Strata:			
4.				Percent of Dominant Space OBL, FACW, or FAC:		0	(A/B)
5				Prevalence Index works			
6				Total % Cover		Multiply I	Bv.
7				OBL species	0	x 1 =	0
	0	= Total Cove	er	FACW species	0	x 2 =	0
Sapling/Shrub Stratum (Plot size: 15 ft)				FAC species	0	x 3 =	0
1				FACU species	0	x 4 =	0
2				UPL species	15	x 5 =	75
3				Column Totals	15	(A)	75 (B)
4.				Prevalence In			- ()
5				Hydrophytic Vegetation			
6.				1- Rapid Test for H		/egetation	
7				2 - Dominance Tes		egetation	
	0	_= Total Cove	er	3 - Prevalence Ind			
Herb Stratum (Plot size:5 ft)				4 - Morphological		(Provide	supporting
1. Zea mays	15	Yes	UPL	data in Remarks or on a			
2				Problematic Hydr	ophytic Vege	tation¹ (Ex	plain)
3.				¹Indicators of hydric so	il and wetlan	d hydrolog	gy must be
4				present, unless disturb	ed or probler	matic	
5				Definitions of Vegetation	n Strata:		
6				Tree – Woody plants 3 i			liameter at
7				breast height (DBH), re	gardless of h	eight.	
8				Sapling/shrub - Woody			BH and
9				greater than or equal to			
10				Herb – All herbaceous (-		ardless of
11				size, and woody plants			00.61
12				Woody vines - All wood	ly vines great	er than 3.	28 ft in
	15	= Total Cove	er	height.			
Woody Vine Stratum (Plot size: 30 ft)				Hydrophytic Vegetatio	n Present? \	/es N	0
1							
2							
3.							
4							
	0	= Total Cove	er				
Remarks: (Include photo numbers here or on a separat	te sheet)						
Thermatics, (include prioto flambers field of off a separa-	ic silecti,						
Active agricultural field							

	cription: (Describe t	o the de	-			indicato	r or confirm the at	sence of	f indicators.)
Depth _	Matrix		Redox				- .		B
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type ¹	Loc ²	Texture		Remarks
0 - 13	10YR 4/3	100		_			Silt Loam		
				_			_		
				_					
				_					
				_		-			-
				_					
1T C = C	Consentuation D = [n DM - Dadwaad			N 4 a a l s a al	Canal Cuaina 21 a		DI - Dava Lining M - Matrix
	Concentration, D = [Depletio	n, RIVI = Reduced	Mat	rix, ivis =	Masked	Sand Grains. ² LC		PL = Pore Lining, M = Matrix.
Hydric Soil				_				Indicato	ors for Problematic Hydric Soils ³ :
Histoso							R, MLRA 149B)	2 cn	n Muck (A10) (LRR K, L, MLRA 149B)
	oipedon (A2)		Thin Dark Su					Coa	st Prairie Redox (A16) (LRR K, L, R)
	stic (A3)		Loamy Muck			(LKK K,	L)	5 cn	n Mucky Peat or Peat (S3) (LRR K, L, R)
	en Sulfide (A4) d Layers (A5)		Loamy Gleye Depleted Ma					Dar	k Surface (S7) (LRR K, L)
	d Below Dark Surfa	ιςο (Δ11)						Poly	value Below Surface (S8) (LRR K, L)
	ark Surface (A12)	ice (ATT)	Depleted Dar			١		Thir	n Dark Surface (S9) (LRR K, L)
	fucky Mineral (S1)		Redox Depre			,		Iron	-Manganese Masses (F12) (LRR K, L, R)
_	Gleyed Matrix (S4)		Redox Bepre	33101	13 (1 0)			Pied	dmont Floodplain Soils (F19) (MLRA 149B)
-	ledox (S5)							Mes	sic Spodic (TA6) (MLRA 144A, 145, 149B)
-								Red	Parent Material (F21)
	d Matrix (S6)	U DA 140	ND)					-	y Shallow Dark Surface (TF12)
Dark Su	rface (S7) (LRR R, M	ILKA 145	,D)					Oth	er (Explain in Remarks)
3Indicators	of hydrophytic vege	etation a	and wetland hydr	olog	y must b	e preser	nt, unless disturbe	d or prob	olematic.
Restrictive	Layer (if observed):								
	Type:	so	l compaction			Hydric	Soil Present?		Yes No
	Depth (inches):		11						
Remarks: Observed s	oil compaction was	s due to	agricultural activ	ities.					

Vegetation Photos



Soil Photos



Project/Site: Trelina	City/County: Gen	eva, Ontario	Sampling Date: 2019-June-27			
Applicant/Owner: NextEra		State: NY	Sampling Point:	W-NWJ-33; PEM-1		
Investigator(s): Nick DeJohn, N	ate Jones	Section, Township,	Range:			
Landform (hillslope, terrace, etc.)	: Depression	Local relief (concave, conv	ex, none): Concave	Slope (%): 0-1		
Subregion (LRR or MLRA): L	RR L	Lat: 42.870768145	7 Long: -76.9793690556	Datum: WGS84		
Soil Map Unit Name: Lamson	fine sandy loam and Mucky fine sandy	/ loam	NWI classi	fication:		
Are climatic/hydrologic condition	is on the site typical for this time of ye	ar? Yes No	(If no, explain in Rema	arks.)		
Are Vegetation, Soil,	or Hydrology significantly dis		al Circumstances" present?	Yes No		
Are Vegetation, Soil,	or Hydrology naturally probl	ematic? (If needed,	explain any answers in Rer	marks.)		
SUMMARY OF FINDINGS – A	Attach site map showing samplir	ng point locations, trai	nsects, important featu	ıres, etc.		
Hydrophytic Vegetation Present	? Yes No					
Hydric Soil Present?	Yes No	Is the Sampled Area withi	n a Wetland?	Yes No		
Wetland Hydrology Present?		If yes, optional Wetland S		W-NWJ-33		
	Yes No		ite ib.			
Remarks: (Explain alternative pro	ocedures here or in a separate report)				
TRC covertype is PEM. Wetter th	an average year					
HYDROLOGY						
Wetland Hydrology Indicators:						
Primary Indicators (minimum of	one is required; check all that apply)		Secondary Indicators (min	•		
Surface Water (A1)	Water-Stained Lea		Surface Soil Cracks (B6			
<u>✓</u> High Water Table (A2)	Aquatic Fauna (B1		Drainage Patterns (B10) Moss Trim Lines (B16)			
✓ Saturation (A3)	Marl Deposits (B1:		Dry-Season Water Tabl	e (C2)		
Water Marks (B1) Sediment Deposits (B2)	Hydrogen Sulfide	neres on Living Roots (C3)				
Sediment Deposits (B2)	Oxidized Rilizospi	ieres on Living Roots (C3)	Saturation Visible on Aerial Imagery (C9)			
Drift Deposits (B3)	Presence of Reduc	ced Iron (C4)	Stunted or Stressed Pla			
Algal Mat or Crust (B4)		ction in Tilled Soils (C6)	Geomorphic Position (D2)			
Iron Deposits (B5)	Thin Muck Surface		Shallow Aquitard (D3)	,		
Inundation Visible on Aerial I	lmagery (B7) Other (Explain in F	Remarks)	Microtopographic Relie	ef (D4)		
Sparsely Vegetated Concave	Surface (B8)		✓ FAC-Neutral Test (D5)			
Field Observations:						
Surface Water Present?	Yes No _ _/ Depth	(inches):				
Water Table Present?	Yes No Depth	(inches): 2	Wetland Hydrology Preser	nt? Yes No		
Saturation Present?	Yes _ 🗸 No Depth	(inches): 0				
(includes capillary fringe)	 .					
	n gauge, monitoring well, aerial photos	nrevious inspections) if	available:	·		
Describe Recorded Data (stream	r gauge, morntoring well, aeriai prioto.	s, previous irispections,, ir	avallable.			
Power and co.						
Remarks:						
İ						

	Absolute	Dominant	Indicator	Dominance Test worksheet:		
Tree Stratum (Plot size: 30 ft)		Species?	Status	Number of Dominant Species That	_	(4)
1. Fraxinus pennsylvanica	5	Yes	FACW	Are OBL, FACW, or FAC:	5	(A)
2. Acer rubrum	5	Yes	FAC	Total Number of Dominant Species	5	(B)
3.				Across All Strata:		(D)
4.				Percent of Dominant Species That	100	(A/B)
5.				Are OBL, FACW, or FAC:		(, , , ,)
6.				Prevalence Index worksheet:		
7.				Total % Cover of:	Multiply	-
··-	10	= Total Cov	er	OBL species 20	x 1 = _	20
Sapling/Shrub Stratum (Plot size:15 ft)		- 10101 COV	Ci	FACW species 80	x 2 =	160
1. Fraxinus pennsylvanica	15	Yes	FACW	FAC species 5	x 3 =	15
2. Rosa multiflora	3	No	FACU	FACU species 3	x 4 =	12
3.			FACO	UPL species 0	x 5 =	0
				Column Totals 108	(A)	207 (B)
4				Prevalence Index = B/A =	1.9	
5				Hydrophytic Vegetation Indicators:		
6.				1- Rapid Test for Hydrophytic \	/egetation	
7				2 - Dominance Test is >50%		
	18	_= Total Cov	er	\checkmark 3 - Prevalence Index is \le 3.01		
<u>Herb Stratum</u> (Plot size: <u>5 ft</u>)				4 - Morphological Adaptations	(Provide	supporting
Onoclea sensibilis	55	Yes	FACW	data in Remarks or on a separate sh		0
2. <i>Carex vulpinoidea</i>	20	Yes	OBL	Problematic Hydrophytic Vege	tation¹ (Ex	plain)
3. <i>Fraxinus pennsylvanica</i>	5	No	FACW	Indicators of hydric soil and wetlan	d hydrolog	gy must be
4				present, unless disturbed or proble	matic	
5				Definitions of Vegetation Strata:		
6				Tree – Woody plants 3 in. (7.6 cm) or	r more in o	diameter at
7				breast height (DBH), regardless of h	eight.	
8.				Sapling/shrub – Woody plants less t	han 3 in. 🏻	BH and
9				greater than or equal to 3.28 ft (1 m		
10				Herb – All herbaceous (non-woody)		gardless of
11.				size, and woody plants less than 3.2		
12.				Woody vines – All woody vines grea	ter than 3.	28 ft in
	80	= Total Cov	er	height.		
Woody Vine Stratum (Plot size:30 ft)		_		Hydrophytic Vegetation Present?	Yes N	lo
1.						
2.				•		
3.						
4.				•		
· ·	0	= Total Cov	er	•		
			-			
Remarks: (Include photo numbers here or on a separat	e sheet.)					

(inch - '	Matrix		Redox				absence of indicators.)
(inches)	Color (moist)	%	Color (moist)	<u>%</u>	Type ¹	Loc² Te	xture Remarks
0 - 7	10YR 3/1	94	10YR 4/6	6	C	M Silty C	lay Loam
7 - 15	10YR 5/1	70				Silt	y Clay
7 - 15	7.5YR 4/6	30		_		Silt	y Clay
				_			
				_			
				_			
				- —			
				_			
				_			
				_			
•		Depleti	on, RM = Reduced	l Mat	rix, MS =	Masked Sand Grains.	² Location: PL = Pore Lining, M = Matrix.
•	Indicators:		D. 1 =		·e	0) (I DD D 141 D 1425	Indicators for Problematic Hydric Soils ³ :
Histoso	l (A1) pipedon (A2)		-			8) (LRR R, MLRA 149B) RR, MLRA 149B)	2 cm Muck (A10) (LRR K, L, MLRA 149B)
	istic (A3)		Loamy Muck				Coast Prairie Redox (A16) (LRR K, L, R)
	en Sulfide (A4)		Loamy Gleye	-		(=	5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
Stratifie	d Layers (A5)		_✓ Depleted Ma				Dark Surface (S7) (LRR K, L) Polyvalue Below Surface (S8) (LRR K, L)
	ed Below Dark Surfa	ce (A1					Tory value Below Surface (36) (LRR K, L)
	ark Surface (A12)		Depleted Da				Iron-Manganese Masses (F12) (LRR K, L, R)
•	Mucky Mineral (S1)		Redox Depre	oizze	ns (F8)		Piedmont Floodplain Soils (F19) (MLRA 149B)
-	Gleyed Matrix (S4)						Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
-	Redox (S5)						Red Parent Material (F21)
	d Matrix (S6) ırface (S7) (LRR R, M	I DA 17	OB)				Very Shallow Dark Surface (TF12)
Dark 30	111ace (37) (LKK K, IV	LIVA 14	,,				Other (Explain in Remarks)
		etation	and wetland hyd	rolog	y must be	e present, unless distur	ped or problematic.
Restrictive	Layer (if observed):						
	Type:		None	-		Hydric Soil Present?	Yes <u></u> No
	Depth (inches):						
Remarks:							

Hydrology Photos



Vegetation Photos





Project/Site: Trelina	City/Coun	ity: Geneva, Ontario		Sampling Date:_	2019-June-27		
Applicant/Owner: NextEra			State: NY	Sampling Point: V	/-NWJ-33; PFO-1		
Investigator(s): Nick DeJohn, N	ate Jones	Secti	on, Township, Range:				
Landform (hillslope, terrace, etc.)	: Depression	Local relief (concave, convex, non	e): Concave	Slope (%): 0-1		
Subregion (LRR or MLRA):	RR L	Lat:	42.8706909903 Lo n	g: -76.9794162457	Datum: WGS84		
Soil Map Unit Name: Cosad lo	amy fine sand			NWI classifica	ation:		
Are climatic/hydrologic condition	s on the site typical for this ti	me of year?	Yes No <u></u> ∠ (If I	no, explain in Remark	s.)		
Are Vegetation, Soil,	or Hydrology signific	cantly disturbed?	Are "Normal Circur	mstances" present?	Yes No		
Are Vegetation, Soil,	or Hydrology natura	lly problematic?	(If needed, explain	any answers in Rema	rks.)		
SUMMARY OF FINDINGS – A	Attach site man showing	sampling point lo	cations, transects.	important feature	es, etc.		
					,		
Hydrophytic Vegetation Present	? Yes No	i					
Hydric Soil Present?	Yes No	Is the Samp	led Area within a Wet	land?	/es No		
Wetland Hydrology Present?	Yes No	_ If yes, optio	nal Wetland Site ID:	,	W-NWJ-33		
Remarks: (Explain alternative pro	ocedures here or in a separat	e report)		•			
, , , , , , , , , , , , , , , , , , ,		,					
TRC covertype is PFO. Wetter the	an average year						
HYDROLOGY							
Wetland Hydrology Indicators:							
Primary Indicators (minimum of	one is required; check all that	t apply)	Second	ary Indicators (minim	um of two required)		
✓ Surface Water (A1)	✓ Water-Sta	ined Leaves (B9)	Sur	face Soil Cracks (B6)			
✓ High Water Table (A2)	Aquatic Fa		Dra	inage Patterns (B10)			
✓ Saturation (A3)	Marl Depo		Mos	Moss Trim Lines (B16)			
Water Marks (B1)	·	Sulfide Odor (C1)	Dry	Dry-Season Water Table (C2)			
Sediment Deposits (B2)	Oxidized !	Rhizospheres on Livi	ng Roots (C3) Cra	Crayfish Burrows (C8)			
		200p	Sati	uration Visible on Aer	al Imagery (C9)		
Drift Deposits (B3)	Presence	of Reduced Iron (C4)	Stu	nted or Stressed Plan	ts (D1)		
Algal Mat or Crust (B4)		on Reduction in Tilled		Geomorphic Position (D2)			
Iron Deposits (B5)		k Surface (C7)	· · · —	llow Aquitard (D3)	,		
Inundation Visible on Aerial I		plain in Remarks)		rotopographic Relief (D4)		
Sparsely Vegetated Concave	· · · · · · · · · · · · · · · · · · ·	prami na recinario,		-Neutral Test (D5)	<i>-</i> .,		
Field Observations:	Surface (BO)			redutal lest (DS)			
Surface Water Present?	Voc. / No	Depth (inches):	1				
	Yes No	Depth (inches):		d 11 k alamba - 5	V N		
Water Table Present?	Yes No	Depth (inches):		d Hydrology Present?	Yes No		
Saturation Present?	Yes No	Depth (inches):	0				
(includes capillary fringe)							
Describe Recorded Data (stream	n gauge, monitoring well, aeria	al photos, previous ir	spections), if available	<u>:</u> :			
			•				
Remarks:							
I							

	Absolute	Dominant	Indicator	Dominance Test worksheet:		
<u>Tree Stratum</u> (Plot size: <u>30 ft</u>)	% Cover	Species?	Status	Number of Dominant Species That	5	(A)
1. Acer rubrum	60	Yes	FAC	Are OBL, FACW, or FAC:		(A)
2. Fraxinus pennsylvanica	15	Yes	FACW	Total Number of Dominant Species	5	(B)
3.				Across All Strata:		
4.				Percent of Dominant Species That	100	(A/B)
5.				Are OBL, FACW, or FAC:		`_
6.				Prevalence Index worksheet:		
7.				Total % Cover of:	Multiply	-
	75	= Total Cov	er	OBL species 0	x 1 =	0
Sapling/Shrub Stratum (Plot size:15 ft)		-		FACW species 43	x 2 =	86
1. Rhamnus cathartica	10	Yes	FAC	FAC species 85	x 3 =	255
2.		103	1710	FACU species 0	x 4 =	0
3.				- UPL species0	x 5 =	0
4.				- Column Totals 128	(A)	341 (B)
5.				Prevalence Index = B/A =	2.7	
-				Hydrophytic Vegetation Indicators:		
6.				1- Rapid Test for Hydrophytic \	/egetation	
7				2 - Dominance Test is >50%		
	10	= Total Cov	er	\checkmark 3 - Prevalence Index is $\le 3.0^{1}$		
Herb Stratum (Plot size: <u>5 ft</u>)				4 - Morphological Adaptations	1 (Provide	supporting
1. Fraxinus pennsylvanica	25	Yes	FACW	data in Remarks or on a separate sh		11 0
2. Toxicodendron radicans	15	Yes	FAC	Problematic Hydrophytic Vege		plain)
3. <i>Onoclea sensibilis</i>	3	No	FACW	Indicators of hydric soil and wetlan	d hydrolog	gy must be
4				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. D	BH 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
	43	= Total Cov	er	height.		
Woody Vine Stratum (Plot size: _ 30 ft _)		_ 10tal cov	C.	Hydrophytic Vegetation Present?	Yes 🟒 N	lo
1.						
2.				-		
3.				-		
				-		
4		Takal Car		-		
	0	_= Total Cov	er			
Remarks: (Include photo numbers here or on a separat	e sheet.)					

(inches) 0 - 6	Color (moist)	%	Color (moist)	%	ures Type¹	Loc² Tex	ture Remarks
	10YR 3/1	95	10YR 4/6	5	C		ay Loam
6 - 14	10YR 4/1	85	10YR 5/8	12	C	M Silty	Clay
6 - 14			5YR 7/3	3	С	M Silty	Clay
		_					
				. —			
				- —			
				- —			
				. —			
				. —			
<u> </u>			DM Dadiia	-1 54 - 4		Marked Cook Cook	Location BL Dove Union M. Matrix
		Depleti	on, RM = Reduce	d Mat	rix, IVIS =	Masked Sand Grains. ²	Location: PL = Pore Lining, M = Matrix. Indicators for Problematic Hydric Soils ³ :
l ydric Soil I Histosol			Dobavaluo P	alovy C	jurfaca (S	8) (LRR R, MLRA 149B)	,
	ipedon (A2)		Polyvalue Bi				2 cm Muck (A10) (LRR K, L, MLRA 149B)
Black His			Loamy Muc				Coast Prairie Redox (A16) (LRR K, L, R) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
Hydroge	n Sulfide (A4)		Loamy Gley	ed Ma	trix (F2)		5 cm Mucky Feat of Feat (55) (LRK K, L, K) Dark Surface (S7) (LRR K, L)
	Layers (A5)		_✓ Depleted M				Polyvalue Below Surface (S8) (LRR K, L)
'	d Below Dark Surfa	ace (A1			. ,		Thin Dark Surface (S9) (LRR K, L)
	rk Surface (A12) ucky Mineral (S1)		Depleted Da Redox Depr				Iron-Manganese Masses (F12) (LRR K, L, R)
,	leyed Matrix (S4)		Redox Depi	C33101	15 (1-0)		Piedmont Floodplain Soils (F19) (MLRA 149B)
-	edox (S5)						Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
-	Matrix (S6)						Red Parent Material (F21)
	face (S7) (LRR R, M	ILRA 14	19B)				Very Shallow Dark Surface (TF12) Other (Explain in Remarks)
	. £			المالم			
	ayer (if observed):		and wettand nyt	ir olog	y must be	e present, unless disturb I	ed or problematic.
resultuve r	ayer (ii observed). Type:		None			Hydric Soil Present?	Yes _ ✓ _ No
			None	-		riyunc son r resent:	163 <u>v</u> 140
	Depth (inches):						·
				•			

Hydrology Photos



Vegetation Photos





Project/Site: Trelina	City/County: Ger	neva, Ontario		Sampling Date: 2019	-June-27
Applicant/Owner: NextEra		State: NY	S	Sampling Point: W-NW	J-33; UPL-1
Investigator(s): Nick DeJohn, Nat	te Jones	Section, Township, I	Range:		
Landform (hillslope, terrace, etc.):	Agricultural Field	Local relief (concave, conve	ex, none):	Flat	Slope (%): 0-1
Subregion (LRR or MLRA): LRI	RL	Lat: 42.8707153816	5 Long: -	-76.979515655	Datum: WGS84
Soil Map Unit Name: Cosad loar	ny fine sand			NWI classification:	
Are climatic/hydrologic conditions	on the site typical for this time of ye		(If no,	explain in Remarks.)	
Are Vegetation, Soil,	or Hydrology significantly di				es No _ _ /_
Are Vegetation, Soil,	or Hydrology naturally prob	lematic? (If needed, e	explain any	answers in Remarks.)	
SUMMARY OF FINDINGS – At	tach site map showing sampli	ng point locations, tran	sects, imp	portant features, et	tc.
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 Sit	e ID:		
	· · · · · · · · · · · · · · · · · · ·		ie ib.		
Remarks: (Explain alternative proc	cedures here or in a separate report	1)			
TRC covertype is UPL. Circumstan	ces are not normal due to agricultu	ral activities, Wetter than ave	erage year		
HYDROLOGY					
Watland Hydrology Indicators:					
Wetland Hydrology Indicators:	ne is required; check all that apply)		Sacondany	Indicators (minimum c	of two required)
_			•	Soil Cracks (B6)	or two required)
Surface Water (A1)	Water-Stained Le		·	ge Patterns (B10)	
High Water Table (A2) Saturation (A3)	Aquatic Fauna (B ⁻ Marl Deposits (B1		_	rim Lines (B16)	
Saturation (AS) Water Marks (B1)	Main Deposits (B)			ason Water Table (C2)	
Sediment Deposits (B2)			Crayfish	n Burrows (C8)	
		0 . ,	Saturati	ion Visible on Aerial Im	agery (C9)
Drift Deposits (B3)	Presence of Redu	ced Iron (C4)	Stunted	d or Stressed Plants (D1	1)
Algal Mat or Crust (B4)		ction in Tilled Soils (C6)		rphic Position (D2)	
Iron Deposits (B5)	Thin Muck Surfac			Aquitard (D3)	
Inundation Visible on Aerial Im		Remarks)		ppographic Relief (D4)	
Sparsely Vegetated Concave Si	urface (B8)		FAC-Ne	utral Test (D5)	
Field Observations:	V N 1	<i>c</i> 1)			
Surface Water Present?	•	(inches):			
Water Table Present?	Yes No _ _/ Depth	(inches):	Wetland Hy	ydrology Present?	Yes No ∠
Saturation Present?	Yes No Depth	(inches):			
(includes capillary fringe)					
Describe Recorded Data (stream g	gauge, monitoring well, aerial photo	s, previous inspections), if a	vailable:		
Remarks:					

· · · · · · · · · · · · · · · · · · ·				D			
Tree Stratum (Plot size:30 ft)		Dominant		Dominance Test worksh			
	% Cover	Species?	Status	Number of Dominant Spare OBL, FACW, or FAC:	becies That	0	(A)
1				Total Number of Domin	ant Enacios		
2				Across All Strata:	ant species	1	(B)
3				Percent of Dominant Sp	acias That		
4				Are OBL, FACW, or FAC:	ecies mat	0	(A/B)
5.				Prevalence Index works	heet:		
6				Total % Cover of		Multiply	Bv.
7				OBL species	0	x 1 =	0
	0	= Total Cove	r	FACW species	0	x 2 =	0
Sapling/Shrub Stratum (Plot size: 15 ft)				FAC species	0	x3=	0
1				FACU species		_	0
2.					0	x 4 =	
3.				UPL species	0	x 5 = _	0
4.				Column Totals	0	(A) _	0 (B)
5.				Prevalence In	dex = B/A =		
6.				Hydrophytic Vegetation	Indicators:		
7.				1- Rapid Test for H	ydrophytic V	egetation	
/·		= Total Cove		2 - Dominance Tes	t is > 50%		
Harl Street ver (District - 5 ft -)		_ 10tal Cove	ſ	3 - Prevalence Inde	ex is $\leq 3.0^{1}$		
Herb Stratum (Plot size:5 ft)	15	\/	NII	4 - Morphological	Adaptations ¹	(Provide	supporting
1. Glycine max	15	Yes	NI	data in Remarks or on a	separate sh	eet)	
2.				Problematic Hydro	phytic Veget	tation¹ (Ex	plain)
3				¹Indicators of hydric soi	and wetland	d hydrolo	gy must be
4				present, unless disturbe	ed or probler	matic	
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), reg	ardless of he	eight.	
8				Sapling/shrub – Woody			DBH and
9.				greater than or equal to			
10.				Herb – All herbaceous (ı			gardless of
11.				size, and woody plants l			
12.				Woody vines – All wood	y vines great	er than 3.	.28 ft in
	15	= Total Cove	r	height.			
Woody Vine Stratum (Plot size:30 ft)	-	-		Hydrophytic Vegetation	Present? Y	′es N	lo <u> /</u>
1.							
2,							
3.							
4.							
		= Total Cove		•			
		_ TOTAL COVE	ı				
Remarks: (Include photo numbers here or on a sep	arate sheet.)						

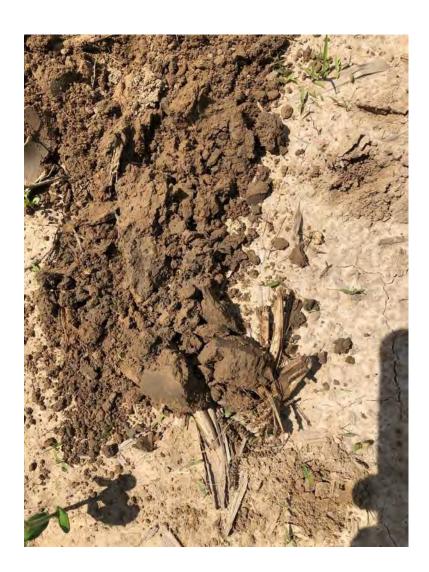
	cription: (Describe t	to the de	-			indicato	r or confirm the at	sence of	f indicators.)
Depth	Matrix		Redox				- .		B
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type ¹	Loc ²	Texture		Remarks
0 - 8	10YR 4/3	100		_			Silt Loam		
				_					
				_			_		
				_					
				_					
				_					-
				_					
1T	Composition D = 1		n DM - Dadwaad			N 4 = al (a al	Canal Cuaina 21 a		DI - Dava Lining M - Matrix
	Concentration, D = I	Depletio	n, RIVI = Reduced	Mat	rix, ivis =	Masked	Sand Grains. ² LC		PL = Pore Lining, M = Matrix.
Hydric Soil				_				Indicato	ors for Problematic Hydric Soils ³ :
Histoso			-				R, MLRA 149B)	2 cn	n Muck (A10) (LRR K, L, MLRA 149B)
	oipedon (A2)		Thin Dark Su					Coa	st Prairie Redox (A16) (LRR K, L, R)
	stic (A3)		Loamy Muck	•		(LKK K,	L)	5 cn	n Mucky Peat or Peat (S3) (LRR K, L, R)
	en Sulfide (A4) d Layers (A5)		Loamy Gleye Depleted Ma					Dar	k Surface (S7) (LRR K, L)
	d Below Dark Surfa	co (Δ11)						Poly	value Below Surface (S8) (LRR K, L)
	ark Surface (A12)	ice (ATT)	Depleted Dai)		Thir	n Dark Surface (S9) (LRR K, L)
	fucky Mineral (S1)		Redox Depre			,		Iron	-Manganese Masses (F12) (LRR K, L, R)
_	Gleyed Matrix (S4)		Redox Depre	33101	13 (1 0)			Pied	lmont Floodplain Soils (F19) (MLRA 149B)
-	ledox (S5)							Mes	sic Spodic (TA6) (MLRA 144A, 145, 149B)
-								Red	Parent Material (F21)
	d Matrix (S6)	U DA 140	ND)					-	y Shallow Dark Surface (TF12)
Dark Su	rface (S7) (LRR R, M	ILKA 145	7 D)					Oth	er (Explain in Remarks)
3Indicators	of hydrophytic veg	etation a	and wetland hydi	olog	y must b	e preser	nt, unless disturbe	d or prob	olematic.
Restrictive	Layer (if observed):								
	Type:	so	il compaction			Hydric	Soil Present?		Yes No
	Depth (inches):		8						
Remarks: Observed s	oil compaction was	s due to	agricultural activ	ities.					

Hydrology Photos



Vegetation Photos





Project/Site: Trelina	City/County: Gen	eva, Ontario	Sampling Date:	2019-June-27		
Applicant/Owner: NextEra		State: NY	Sampling Point:	W-NWJ-34; PEM-1		
Investigator(s): Nick DeJohn, N	late Jones	Section, Township,	Range:			
Landform (hillslope, terrace, etc.): Depression	Local relief (concave, conv	ex, none): Concave	Slope (%): 0-1		
Subregion (LRR or MLRA): L	.RR L	Lat: 42.870513149	Long: -76.9794095174	Datum: WGS84		
Soil Map Unit Name: Odessa	silt loam, 0 to 2 percent slopes		NWI classific	cation:		
Are climatic/hydrologic condition	ns on the site typical for this time of ye	ear? Yes No	(If no, explain in Remar	ks.)		
Are Vegetation, Soil,	or Hydrology significantly dis		al Circumstances" present?	Yes No		
Are Vegetation, Soil,	or Hydrology naturally probl	lematic? (If needed,	explain any answers in Rem	arks.)		
SUMMARY OF FINDINGS - A	Attach site map showing sampli	ng point locations, tra	nsects, important featur	es, etc.		
Hydrophytic Vegetation Present	? Yes _ ✓ _ No					
Hydric Soil Present?	Yes _ ✓ _ No	Is the Sampled Area with	n a Wetland?	Yes No		
•		ł				
Wetland Hydrology Present?	Yes No	If yes, optional Wetland S	ite ib.	W-NWJ-34		
Remarks: (Explain alternative pr	ocedures here or in a separate report)				
TRC covertype is PEM. Wetter th	an average year					
HYDROLOGY						
Wetland Hydrology Indicators:						
Primary Indicators (minimum of	one is required; check all that apply)		Secondary Indicators (minir	num of two required)		
<u></u> Surface Water (A1)	Water-Stained Lea		Surface Soil Cracks (B6)			
<u>✓</u> High Water Table (A2)	⁄ Aquatic Fauna (B1		Drainage Patterns (B10)			
✓ Saturation (A3)	Marl Deposits (B1		Moss Trim Lines (B16) Dry-Season Water Table (C2)			
Water Marks (B1) Sediment Deposits (B2)	Hydrogen Sulfide	neres on Living Roots (C3)	G . C . L . C . C . C . C . C . C . C . C			
Sediment Deposits (B2)	Oxidized Rilizospi	ieres on Living Roots (C3)	Saturation Visible on Ae	rial Imagery (C9)		
Drift Deposits (B3)	Presence of Redu	ced Iron (C4)	Stunted or Stressed Plan			
Algal Mat or Crust (B4)		ction in Tilled Soils (C6)	Geomorphic Position (D			
Iron Deposits (B5)	Thin Muck Surface	e (C7)	Shallow Aquitard (D3)			
Inundation Visible on Aerial	Imagery (B7) Other (Explain in F	Remarks)	Microtopographic Relief	(D4)		
Sparsely Vegetated Concave	Surface (B8)		<u>✓</u> FAC-Neutral Test (D5)			
Field Observations:						
Surface Water Present?	Yes No Depth	(inches): 3				
Water Table Present?	Yes No Depth	(inches): 0	Wetland Hydrology Present	? Yes No		
Saturation Present?	Yes 🗸 No Depth	(inches): 0				
(includes capillary fringe)		· · ·				
	n gauge, monitoring well, aerial photo	s provious inspections) if	available.			
Describe Recorded Data (stream	T gauge, monitoring well, aeriai photo.	s, previous irispections), ir	avallable.			
Remarks:						

γ							
<u>Tree Stratum</u> (Plot size: <u>30 ft</u>)		Dominant		Dominance Test worksh			
·	% Cover	Species?	Status	Number of Dominant Sp	ecies That	2	(A)
1				Are OBL, FACW, or FAC:	Ci		
2				Total Number of Domina Across All Strata:	ant Species	2	(B)
3				Percent of Dominant Sp	osios That		
4				Are OBL, FACW, or FAC:	ecies mai	100	(A/B)
5				Prevalence Index worksh	noot:		
6				Total % Cover o		Multiply E). <i>p</i>
7.	·			OBL species		Multiply E	
	0	= Total Cov	er	_ ·	28	x1=	28
Sapling/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
3.				- UPL species	0	x 5 =	0
				- Column Totals	28	(A)	28 (B)
4				Prevalence Inc	lex = B/A =	1	
5				Hydrophytic Vegetation	Indicators:		
6				1- Rapid Test for Hy		egetation	
7				2 - Dominance Test		0800000	
	0	= Total Cov	er	✓ 3 - Prevalence Inde			
Herb Stratum (Plot size:5 ft)				4 - Morphological A		(Drovido c	upporting
1. Eleocharis palustris	20	Yes	OBL	data in Remarks or on a			apporting
2. <i>Typha latifolia</i>	8	Yes	OBL	Problematic Hydro			alain)
3.				-			
4.				Indicators of hydric soil present, unless disturbe		, ,	y must be
5.				3-		Hauc	
6.				Definitions of Vegetation			
				Tree – Woody plants 3 in			iameter at
7				breast height (DBH), reg			
8				Sapling/shrub - Woody			BH and
9.				greater than or equal to			
10				Herb – All herbaceous (r			ardless of
11				size, and woody plants le			
12				Woody vines – All woody	vines great	ter than 3.2	28 ft in
	28	= Total Cov	er	height.			
Woody Vine Stratum (Plot size:30 ft)		_		Hydrophytic Vegetation	Present? \	∕es <u> </u>	0
1.							
2.				•			
3.				•			
4.				•			
*·		- Tatal Car		-			
	0	= Total Cov	er				
Remarks: (Include photo numbers here or on a separat	e sheet.)						

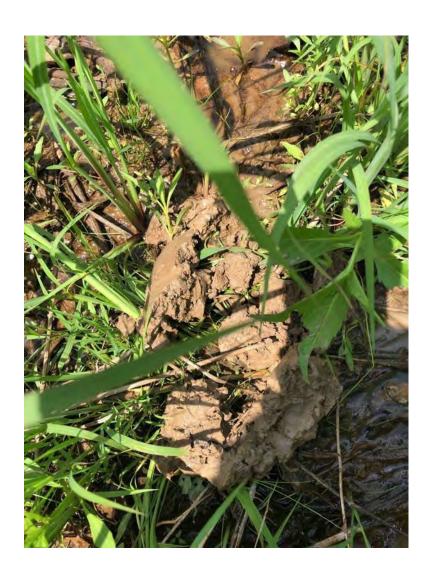
(inches)	Matrix Color (moist)	%	Redox Color (moist)	%	Type ¹	Loc ²	Textu	re Remarks	
0 - 12	10YR 3/1	95	10YR 4/6	5	С	M	Silty Clay		
				_					
		· — ·		_	<u> </u>				
				_					
				_					
				_					
				_					
 Type: C = C	 Concentration, D = [Depletion	on, RM = Reduced	— Mati	rix, MS =	Masked Sand (Grains. ²Lo	cation: PL = Pore Lining, M = Matrix.	
lydric Soil	Indicators:							Indicators for Problematic Hydric Soils ³ :	
Histosol			Polyvalue Bel					2 cm Muck (A10) (LRR K, L, MLRA 149B)	
	oipedon (A2)		Thin Dark Sui)	Coast Prairie Redox (A16) (LRR K, L, R)	
Black Hi	istic (A3) en Sulfide (A4)		Loamy Mucky			(LRR K, L)		5 cm Mucky Peat or Peat (S3) (LRR K, L, F	?)
	d Layers (A5)		Loamy Gleye					Dark Surface (S7) (LRR K, L)	
	d Below Dark Surfa	ce (A11						Polyvalue Below Surface (S8) (LRR K, L)	
	ark Surface (A12)	CC (/ (/ /	Depleted Dar					Thin Dark Surface (S9) (LRR K, L)	
	Aucky Mineral (S1)		Redox Depre					Iron-Manganese Masses (F12) (LRR K, L,	
	Gleyed Matrix (S4)				,			Piedmont Floodplain Soils (F19) (MLRA 1	
-	Redox (S5)							Mesic Spodic (TA6) (MLRA 144A, 145, 14 9	9B)
-	d Matrix (S6)							Red Parent Material (F21)	
	rface (S7) (LRR R, M	LRA 14	9B)					Very Shallow Dark Surface (TF12) Other (Explain in Remarks)	
	of hydrophytic vege	etation	and wetland hydr	olog	y must be	present, unle	ss disturbed	or problematic.	
Restrictive I	Layer (if observed): Type:		Compaction			Hydric Soil Pr	ocont?	Yes _ ✓_ No	
			12			Hydric 30ii Pi	esent	res _/_ No	
Remarks:	Depth (inches):		12					 	

Hydrology Photos



Vegetation Photos





Project/Site: Trelina	(City/County: Gen	eva, Ontario	Samp	oling Date: 2019	-June-27
Applicant/Owner: NextEra			State: NY	Sampli	ng Point: W-NW	J-34; UPL-1
Investigator(s): Nick DeJohn, N	ate Jones		Section, Township,	Range:		
Landform (hillslope, terrace, etc.)	: Agricultural Fi	eld	Local relief (concave, conv	rex, none): Flat		Slope (%): 0-1
<u> </u>	RR L		Lat: 42.870783610	3 Long: -76.979	94736617	Datum: WGS84
Soil Map Unit Name: Odessa	ilt loam, 0 to 2 perce	ent slopes		N	WI classification:	
Are climatic/hydrologic condition	• • • • • • • • • • • • • • • • • • • •	-		_ ∠ (If no, explain	ı in Remarks.)	
Are Vegetation, Soil,	or Hydrology	significantly dis	sturbed? Are "Norm	al Circumstances"	present? Y	es No
Are Vegetation, Soil,	or Hydrology	naturally probl	ematic? (If needed,	explain any answe	ers in Remarks.)	
SUMMARY OF FINDINGS – A	Nttach site map sł	nowing samplir	ng point locations, trar	nsects, importa	nt features, e	tc.
Hydrophytic Vegetation Present	? Yes	No _ _ _				
Hydric Soil Present?	Yes	No _ _ _	Is the Sampled Area withi	n a Wetland?	Yes	No⁄_
Wetland Hydrology Present?		No / _	If yes, optional Wetland S	ite ID·		
Remarks: (Explain alternative pr				ite ib.		
TRC covertype is UPL. Wetter th	an average year					
HYDROLOGY Wetland Hydrology Indicators:		al all that are all N		C la la disa		Second of the second
Primary Indicators (minimum of	one is required; che	ck all that apply)		Secondary Indica		of two required)
Surface Water (A1)		Water-Stained Lea		Surface Soil C		
High Water Table (A2)		Aquatic Fauna (B1		Drainage Patt Moss Trim Lin		
Saturation (A3)		Marl Deposits (B1			/ater Table (C2)	
Water Marks (B1) Sediment Deposits (B2)		Hydrogen Sulfide Dvidized Bhizosph	neres on Living Roots (C3)	Crayfish Burro		
Scamene Deposits (B2)	`	oxidized Kilizospi	icres on Living Roots (es)	•	sible on Aerial Im	agery (C9)
Drift Deposits (B3)	F	Presence of Reduc	ced Iron (C4)	Stunted or Str	ressed Plants (D	1)
Algal Mat or Crust (B4)	F	Recent Iron Reduc	tion in Tilled Soils (C6)	Geomorphic F	osition (D2)	
Iron Deposits (B5)		Thin Muck Surface		Shallow Aquit		
Inundation Visible on Aerial		Other (Explain in F	Remarks)		phic Relief (D4)	
Sparsely Vegetated Concave	Surface (B8)			FAC-Neutral T	est (D5)	
Field Observations:						
Surface Water Present?	Yes No	<u>C</u> Depth	(inches):	-		
Water Table Present?	Yes No _ _	<u>r</u> Depth	(inches):	Wetland Hydrolo	gy Present?	Yes No
Saturation Present?	Yes No	<u>^</u> Depth	(inches):	_		
(includes capillary fringe)						
Describe Recorded Data (stream Remarks:	ı gauge, monitoring ı	well, aerial photos	s, previous inspections), if a	available:		

<u>Tree Stratum</u> (Plot size: <u>30 ft</u>)	Absolute %	Dominant	Indicator	Dominance Test worksheet:		
	Cover	Species?	Status	Number of Dominant Species 1	hat 0	(A)
1				Are OBL, FACW, or FAC:		
2				Total Number of Dominant Spe	cies 0	(B)
3				Across All Strata:	. 	
۱ ۵				Percent of Dominant Species T	iat	(A/B)
5				Are OBL, FACW, or FAC:		
6.				Prevalence Index worksheet:		
7.				Total % Cover of:	<u>Multiply</u>	-
	0	= Total Cover		OBL species 0	x 1 =	0
Sapling/Shrub Stratum (Plot size:15 ft_				FACW species 0	x 2 =	0
				FAC species 0	x 3 =	0
2				FACU species 0	x 4 =	0
				UPL species 0	x 5 =	0
-				— Column Totals 0	(A)	0 (B)
4				Prevalence Index = B.	A =	
				Hydrophytic Vegetation Indicat	ors:	
6				1- Rapid Test for Hydroph		n
7				2 - Dominance Test is > 50	_	
	0	= Total Cover		3 - Prevalence Index is ≤ 3		
Herb Stratum (Plot size:5 ft)				4 - Morphological Adaptat		Sunnorting
1				— data in Remarks or on a separa		s supporting
2				Problematic Hydrophytic		xplain)
3				¹Indicators of hydric soil and w	-	
4.				present, unless disturbed or pr		ogy mast be
5.				Definitions of Vegetation Strata		
6.				Tree – Woody plants 3 in. (7.6 c		diameter at
7.				breast height (DBH), regardless		alairietei at
8.				Sapling/shrub - Woody plants l	_	DBH and
9.				greater than or equal to 3.28 ft		2211 4114
10				Herb – All herbaceous (non-wo		egardless of
				size, and woody plants less tha		-ga. a.ess e.
11				Woody vines – All woody vines		3.28 ft in
12				height.	,	
		= Total Cover		Hydrophytic Vegetation Preser	at2 Voc	No. 1
Woody Vine Stratum (Plot size: 30 ft)				Trydrophytic vegetation Fresei	t: 163	NO _ y _
1				_		
2				_		
3				_		
4				_		
	0	= Total Cover				
Remarks: (Include photo numbers here o	r on a separat	e sheet.)				

	•	to the de	•			indicato	r or confirm the	e absence of indicators.)
Depth	Matrix		Redox					_
(inches)	Color (moist)		Color (moist)	<u>%</u>	Type ¹	Loc ²	Texture	Remarks
0 - 8	10YR 4/3	100		_				
				_				
				_				
				_				
				_				
				_				
	_			_			•	
				_				
				_				
				_	-			
				_				
¹Type: C = 0	Concentration, D =	Depletio	n, 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	l (A1)		Polyvalue Bel	ow S	urface (S	8) (LRR I	R, MLRA 149B)	2 cm Muck (A10) (LRR K, L, MLRA 149B)
Histic E _l	pipedon (A2)		Thin Dark Su					Coast Prairie Redox (A16) (LRR K, L, R)
	istic (A3)		Loamy Mucky			(LRR K, I	_)	5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
	en Sulfide (A4)		Loamy Gleye					Dark Surface (S7) (LRR K, L)
	d Layers (A5)		Depleted Ma					Polyvalue Below Surface (S8) (LRR K, L)
	d Below Dark Surf							Thin Dark Surface (S9) (LRR K, L)
	ark Surface (A12)		Depleted Dar)		Iron-Manganese Masses (F12) (LRR K, L, R)
-	Mucky Mineral (S1)		Redox Depre	ssior	ıs (F8)			Piedmont Floodplain Soils (F19) (MLRA 149B)
	Gleyed Matrix (S4)							Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
-	Redox (S5)							Red Parent Material (F21)
	d Matrix (S6)							Very Shallow Dark Surface (TF12)
Dark Su	ırface (S7) (LRR R, N	MLRA 149	9B)					Other (Explain in Remarks)
3Indicators	of hydrophytic you	rotation	and watland byde	·olog	v must b	o procor	st uplace dictur	bed or problematic.
	Layer (if observed)		and Welland Hydi	olog	y must b	e preser	it, uriiess distui	bed of problematic.
	•					l liveducies	Cail Duanama	Vee No (
	Type:		Compaction			Hydric	Soil Present?	Yes No/_
	Depth (inches):		8					
Remarks:								

Hydrology Photos



Vegetation Photos



Soil Photos



Project/Site: Trelina	City/County: Gen	eva, Ontario	Sampling Date:	2019-June-27		
Applicant/Owner: NextEra		State: NY	Sampling Point: V	/-NWJ-35; PEM-1		
Investigator(s): Nick DeJohn, N	late Jones	Section, Township,	Range:			
Landform (hillslope, terrace, etc.): Depression	Local relief (concave, conv	ex, none): Concave	Slope (%): 0-1		
Subregion (LRR or MLRA): L	.RR L	Lat: 42.870723051	1 Long: -76.9795406331	Datum: WGS84		
Soil Map Unit Name: Claverac	k loamy fine sand, 2 to 6 percent slope	es	NWI classifica	ation:		
Are climatic/hydrologic condition	ns on the site typical for this time of ye	ear? Yes No	(If no, explain in Remark	s.)		
Are Vegetation, Soil,	or Hydrology significantly dis		al Circumstances" present?	Yes No		
Are Vegetation, Soil,	or Hydrology naturally probl	lematic? (If needed,	explain any answers in Rema	rks.)		
SUMMARY OF FINDINGS - A	Attach site map showing sampli	ng point locations, tra	nsects, important feature	es, etc.		
Hydrophytic Vegetation Present	? Yes No					
Hydric Soil Present?	Yes _ ✓ _ No	Is the Sampled Area with	n a Wetland?	/es No		
•		ł				
Wetland Hydrology Present?	Yes No	If yes, optional Wetland S	ite iD.	N-NWJ-35		
Remarks: (Explain alternative pr	ocedures here or in a separate report)				
TRC covertype is PEM. Wetter th	an average year					
HYDROLOGY						
Wetland Hydrology Indicators:						
Primary Indicators (minimum of	one is required; check all that apply)		Secondary Indicators (minim	um of two required)		
<u> ✓</u> Surface Water (A1)	Water-Stained Lea		Surface Soil Cracks (B6)			
<u>✓</u> High Water Table (A2)	Aquatic Fauna (B1		Drainage Patterns (B10)			
✓ Saturation (A3)	Marl Deposits (B1		Moss Trim Lines (B16) Dry-Season Water Table (C2)			
Water Marks (B1) Sediment Deposits (B2)	Hydrogen Sulfide	neres on Living Roots (C3)	6 6 1 5 (50)			
Sediment Deposits (B2)	Oxidized Rilizospi	ieres on Living Roots (C3)	Saturation Visible on Aeri	al Imagery (C9)		
Drift Deposits (B3)	Presence of Redu	ced Iron (C4)	Stunted or Stressed Plant			
Algal Mat or Crust (B4)		ction in Tilled Soils (C6)	Geomorphic Position (D2			
Iron Deposits (B5)	Thin Muck Surface		Shallow Aquitard (D3)			
Inundation Visible on Aerial	Imagery (B7) Other (Explain in F	Remarks)	Microtopographic Relief (D4)		
Sparsely Vegetated Concave	Surface (B8)		<u>✓</u> FAC-Neutral Test (D5)			
Field Observations:						
Surface Water Present?	Yes No Depth	(inches): 3				
Water Table Present?	Yes 🗸 No Depth	(inches): 0	Wetland Hydrology Present?	Yes No		
Saturation Present?	Yes 🟒 No Depth	(inches): 0				
(includes capillary fringe)		· · · · · · · · · · · · · · · · · · ·				
	n gauge, monitoring well, aerial photo	s previous inspections) if	availahle:	·		
Describe Recorded Data (stream	T gauge, mornicornig well, aeriai prioco.	s, previous irispections), ir	avallable.			
Para autor						
Remarks:						
İ						

				<u> </u>			
Tree Stratum (Plot size: 30 ft)		Dominant		Dominance Test workshee			
	% Cover	Species?	Status	Number of Dominant Spe	cies That	2	(A)
1				Are OBL, FACW, or FAC:			
2				Total Number of Dominar Across All Strata:	it species	2	(B)
3				Percent of Dominant Spec	ciac That		
4				- Are OBL, FACW, or FAC:	ties mat	100	(A/B)
5				Prevalence Index workshe	not:		
6				- Total % Cover of:		Multiply	Dv.e.
7.				- OBL species		Multiply E	-
	0	= Total Cov	er	FACW species	45	x 1 =	45
Sapling/Shrub Stratum (Plot size:15 ft)		_		<u> </u>	15	x 2 =	30
1.				FAC species	0	x 3 =	0
2.				FACU species	0	x 4 =	0
3.				- UPL species	0	x 5 =	0
4.				- Column Totals	60	(A)	75 (B)
5.				Prevalence Inde	ex = B/A =	1.3	
-				Hydrophytic Vegetation Ir	ndicators:		
6				1- Rapid Test for Hyd	drophytic V	egetation	
7				2 - Dominance Test i	s >50%		
	0	_= Total Cov	er er	3 - Prevalence Index	is ≤ 3.0^{1}		
Herb Stratum (Plot size: _5 ft)				4 - Morphological Ac	daptations ¹	(Provide s	supporting
1. Eleocharis palustris	35	Yes	OBL	data in Remarks or on a s			
2. <i>Phalaris arundinacea</i>	15	Yes	FACW	Problematic Hydrop	hytic Veget	tation¹ (Ex	olain)
3. <i>Alisma triviale</i>	10	No	OBL	Indicators of hydric soil a	nd wetland	d hydrolog	y must be
4				present, unless disturbed	or probler	matic	-
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			
8.				Sapling/shrub - Woody pl			BH and
9.				greater than or equal to 3			
10.				Herb – All herbaceous (no	n-woody)	plants, reg	ardless of
11.				size, and woody plants les	ss than 3.2	8 ft tall.	
12.				Woody vines – All woody	vines great	er than 3.2	28 ft in
12.		= Total Cov		height.			
March March Charles (District 20 ft)	60	_ 10tal Cov	rei	Hydrophytic Vegetation F	Present? Y	es 🗸 N	0
Woody Vine Stratum (Plot size: 30 ft)				, , , , , , , , , , , , , , , , , , , ,			
1				-			
2				-			
3				_			
4				_			
	0	= Total Cov	ver .				
Remarks: (Include photo numbers here or on a separat	e sheet.)						

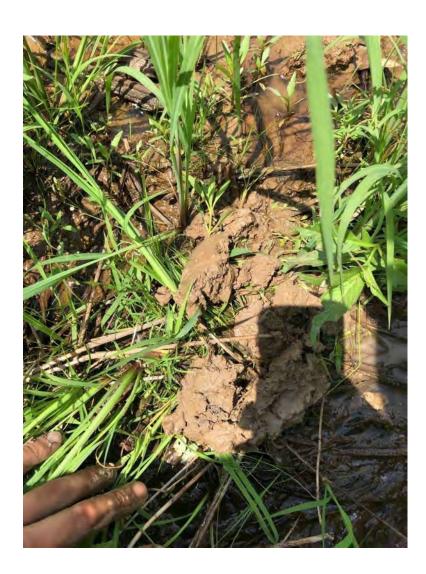
(inches)	Matrix	0/ Color/mais	-) 04	res		Domarke
0 - 12	Color (moist) 10YR 3/1	Color (mois10YR 5/8	t) <u>%</u> 5		M Silty Clay	Remarks Remarks
0-12	1011(3/1	<u> </u>			VI Silty Clay	
		_			·	
		_				
					· ·	
		_			·	
		_			· ·	
Type: C = Co	ncentration, D = De	epletion, RM = Redu	ıced Matr	ix, MS = Ma	sked Sand Grains. ² L	Location: PL = Pore Lining, M = Matrix.
Hydric Soil Inc	dicators:					Indicators for Problematic Hydric Soils ³ :
Histosol (A	\1)				LRR R, MLRA 149B)	2 cm Muck (A10) (LRR K, L, MLRA 149B)
Histic Epip					MLRA 149B)	Coast Prairie Redox (A16) (LRR K, L, R)
Black Hist	ic (A3) Sulfide (A4)	Loamy N Loamy G	-	eral (F1) (LR riv (F2)	K K, L)	5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
, .	Layers (A5)	Depleted				Dark Surface (S7) (LRR K, L)
	, , ,	e (A11) <u>✓</u> Redox D				Polyvalue Below Surface (S8) (LRR K, L)
Thick Darl	Surface (A12)	Depleted	Dark Sur	face (F7)		Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L, R)
Sandy Mu	cky Mineral (S1)	Redox D	epression	s (F8)		Piedmont Floodplain Soils (F12) (MLRA 149B)
-	yed Matrix (S4)					Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
Sandy Red						Red Parent Material (F21)
Stripped N						Very Shallow Dark Surface (TF12)
Dark Surfa	ace (S7) (LRR R, ML	RA 149B)				Other (Explain in Remarks)
Indicators of	hydrophytic veget	ation and wetland	hydrology	must be pr	esent, unless disturbe	ed or problematic.
Restrictive La	yer (if observed):					
T	ype:	Compaction	<u>1</u>	Hy	dric Soil Present?	Yes No
D	epth (inches):	12				
Remarks:						

Hydrology Photos



Vegetation Photos





Project/Site: Trelina	City/County: Gen	eva, Ontario	Sampling Date: 2019-June-27			
Applicant/Owner: NextEr	a	State: NY	Sampling Point	:: W-NWJ-35; UPL-1		
Investigator(s): Nick DeJol	nn, Nate Jones	Section, Township, I	Range:			
Landform (hillslope, terrace,	, etc.): Agricultural Field	Local relief (concave, conve	ex, none):_ Flat	Slope (%): 0-1		
Subregion (LRR or MLRA):	LRR L	Lat: 42.8706946364	Long: -76.979522025	Datum: WGS84		
Soil Map Unit Name: Ode	essa silt loam, 0 to 2 percent slopes		NWI class	ification:		
Are climatic/hydrologic cond	ditions on the site typical for this time of ye	ear? Yes No	✓ (If no, explain in Rem	iarks.)		
Are Vegetation, Soil _	, or Hydrology significantly di	sturbed? Are "Norma	l Circumstances" present	t? Yes No		
Are Vegetation, Soil _	, or Hydrology naturally prob	lematic? (If needed, o	explain any answers in Re	emarks.)		
SUMMARY OF FINDING	S – Attach site map showing sampli	ng point locations, tran	sects, important feat	ures, etc.		
Hydrophytic Vegetation Pre	esent? Yes No		<u> </u>			
Hydric Soil Present?	Yes No ∠ _	Is the Sampled Area within	a Wetland?	Yes No/		
Wetland Hydrology Present	t? Yes No ∠	If yes, optional Wetland Sit	e ID:			
	ve procedures here or in a separate report					
TRC covertype is UPL. Circu	mstances are not normal due to agricultur	ral activities, Wetter than av	erage year			
HYDROLOGY						
Wetland Hydrology Indicato			C			
	m of one is required; check all that apply)		Secondary Indicators (mi	•		
Surface Water (A1)	Water-Stained Lea		Surface Soil Cracks (B6)			
High Water Table (A2)	Aquatic Fauna (B1		Drainage Patterns (B10) Moss Trim Lines (B16)			
Saturation (A3) Water Marks (B1)	Marl Deposits (B1 Hydrogen Sulfide		Dry-Season Water Table (C2)			
Sediment Deposits (B2)	, ,		- C. I. D. (CO.)			
(==)			Saturation Visible on	Aerial Imagery (C9)		
Drift Deposits (B3)	Presence of Redu	ced Iron (C4)	Stunted or Stressed Plants (D1)			
Algal Mat or Crust (B4)			Geomorphic Position			
Iron Deposits (B5)	Thin Muck Surface		Shallow Aquitard (D3)			
Inundation Visible on A		Remarks)	Microtopographic Rel			
Sparsely Vegetated Con Field Observations:	cave Surface (B8)		FAC-Neutral Test (D5)			
	Vos No (Donth	(inches).				
Surface Water Present?		(inches):				
Water Table Present?	·	· —	Wetland Hydrology Prese	ent? Yes No		
Saturation Present?	Yes No _ ∠ Depth	(inches):				
(includes capillary fringe)						
Describe Recorded Data (st	ream gauge, monitoring well, aerial photo	s, previous inspections), if a	vailable:			
Remarks:						

	Abaaliika	Daminant	I = = 1: = = + = = =	Dominance Test worksheet:		
Tree Stratum (Plot size: 30 ft)		Dominant Species?	Status	Number of Dominant Species Tha	·+	
4	70 COVE	species:	Status	Are OBL, FACW, or FAC:	0	(A)
1				Total Number of Dominant Specie		
2.				Across All Strata:	· 1	(B)
3.				Percent of Dominant Species Tha	t	
4				Are OBL, FACW, or FAC:	0	(A/B)
5				Prevalence Index worksheet:		
6				Total % Cover of:	Multiply	By:
7				OBL species 0	x 1 =	0
	0	= Total Cove	r	FACW species 0	x 2 =	0
Sapling/Shrub Stratum (Plot size: 15 ft)				FAC species 0	x 3 =	0
1				FACU species 0	x 4 =	0
2				UPL species 0	x 5 =	0
3				Column Totals 0	(A)	0 (B)
4				Prevalence Index = B/A	_ `` -	O (B)
5						
6.				Hydrophytic Vegetation Indicator		
7.				1- Rapid Test for Hydrophyt	c vegetatior	1
	0	= Total Cove	r	2 - Dominance Test is > 50%		
Herb Stratum (Plot size:5 ft)		-		3 - Prevalence Index is ≤ 3.0		
1. <i>Glycine max</i>	20	Yes	NI	4 - Morphological Adaptatio		supporting
2.				data in Remarks or on a separate Problematic Hydrophytic Ve		(gialay
3.				Indicators of hydric soil and wet	_	•
4.				present, unless disturbed or prob	-	igy must be
5.				Definitions of Vegetation Strata:	iematic	
6.				Tree – Woody plants 3 in. (7.6 cm	or more in	diameter at
7.				breast height (DBH), regardless o		ularrieter at
8.				Sapling/shrub – Woody plants les		DBH and
9.				greater than or equal to 3.28 ft (1		DDIT UTIO
40				Herb – All herbaceous (non-wood		gardless of
				size, and woody plants less than		8
11.				Woody vines – All woody vines gr		.28 ft in
12		Tatal Carra		height.		
W 1.15 5:	20	= Total Cove	r	Hydrophytic Vegetation Present	Yes N	No ./
Woody Vine Stratum (Plot size: 30 ft)				· · · · · · · · · · · · · · · · · · ·		
1.						
2						
3						
4						
	0	= Total Cove	r			
Remarks: (Include photo numbers here or on a sepa	arate sheet.)			_		

	•	to the de	•			indicato	r or confirm the	absence of indicators.)
Depth _	Matrix		Redox				_	
(inches)	Color (moist)	<u> %</u>	Color (moist)	<u>%</u>	Type ¹	Loc²	Texture	
0 - 8	10YR 4/3	100		_			Silt Loar	n
				_				
				_				
		· ·		_				
		· ·		_				
		· ·		_				
				_				
				_				
				_				
¹Type: C = C	Concentration, D =	Depletio	n, RM = Reduced	Mati	rix, MS =	Masked	Sand Grains. 2	Location: PL = Pore Lining, M = Matrix.
Hydric Soil	Indicators:							Indicators for Problematic Hydric Soils ³ :
Histosol			Polyvalue Bel	ow S	urface (S	8) (LRR	R, MLRA 149B)	2 cm Muck (A10) (LRR K, L, MLRA 149B)
	oipedon (A2)		Thin Dark Sur		-		•	2 cm Muck (A10) (LRR K, L, MLRA 1498) Coast Prairie Redox (A16) (LRR K, L, R)
Black Hi	stic (A3)		Loamy Mucky				5 cm Mucky Peat or Peat (S3) (LRR K, L, R)	
Hydroge	Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2)							Dark Surface (S7) (LRR K, L)
Stratifie	d Layers (A5)		Depleted Mat	rix (f	- 3)			Polyvalue Below Surface (S8) (LRR K, L)
Deplete	d Below Dark Surfa	ace (A11)	Redox Dark S	urfa	ce (F6)			Thin Dark Surface (S9) (LRR K, L)
Thick Da	ark Surface (A12)		Depleted Dar	k Su	rface (F7))		Iron-Manganese Masses (F12) (LRR K, L, R)
Sandy M	lucky Mineral (S1)		Redox Depre	ssior	ıs (F8)			Piedmont Floodplain Soils (F12) (MLRA 149B)
Sandy G	ileyed Matrix (S4)							Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
Sandy R	edox (S5)							•
Stripped	d Matrix (S6)							Red Parent Material (F21)
Dark Su	rface (S7) (LRR R, N	/LRA 149)B)					Very Shallow Dark Surface (TF12) Other (Explain in Remarks)
								•
			and wetland hydr	olog	y must b	e preser	nt, unless disturb	ed or problematic.
Restrictive I	_ayer (if observed):							
	Type:		Compaction			Hydric	Soil Present?	Yes No
	Depth (inches):		8					
Remarks:								

Hydrology Photos



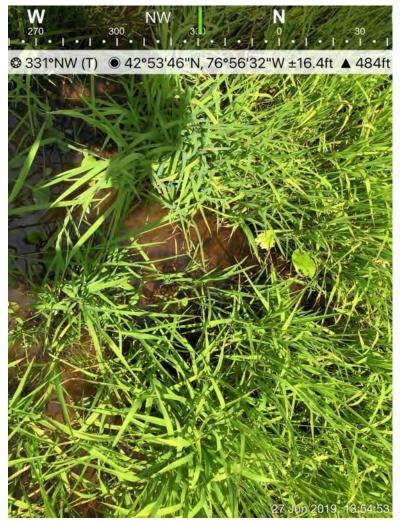
Vegetation Photos



Project/Site: Trelina	City/Coı	unty: Geneva, Ontario		Sampling Date	Sampling Date: 2019-June-27		
Applicant/Owner: NextEra			State: NY	Sampling Point:	W-NWJ-36; PEM-1		
Investigator(s): Nick DeJohn	, Nate Jones	Section,	Township, R	ange:			
Landform (hillslope, terrace, et	tc.): Depression	Local relief (cor	ncave, conve	c, none): Concave	Slope (%): 0-1		
Subregion (LRR or MLRA):	LRR L	Lat: _42.	8706946364	Long: -76.9795220253	Datum: WGS84		
Soil Map Unit Name: Claver	ack loamy fine sand, 2 to 6 per	rcent slopes		NWI classif	ication:		
	ons on the site typical for this			🖊 (If no, explain in Rema			
Are Vegetation, Soil				Circumstances" present?			
Are Vegetation, Soil	_, or Hydrology natu	rally problematic?	(If needed, e	kplain any answers in Rer	narks.)		
SUMMARY OF FINDINGS -	- Attach site map showinរូ	g sampling point locat	tions, trans	ects, important featu	res, etc.		
Hydrophytic Vegetation Prese	ent? Yes _ 🗸 No _						
Hydric Soil Present?	Yes _✓_ No _	Is the Sampled	Area within	a Wetland?	Yes/_ No		
Wetland Hydrology Present?	—— —— Yes _ _∕ _ No	i			W-NWJ-36		
·	· · · · · · · · · · · · · · · · · · ·		Wettand Site	: ID.	- W-144VJ-30		
Remarks: (Explain alternative	procedures here or in a separ	ate report)					
TRC covertype is PEM. Wetter	than average year						
HYDROLOGY							
IIDROLOGI							
Wetland Hydrology Indicators	:						
Primary Indicators (minimum	of one is required; check all th	nat apply)	<u>S</u>	econdary Indicators (min	mum of two required)		
✓ Surface Water (A1)	Water-S	tained Leaves (B9)	_	_ Surface Soil Cracks (B6			
✓ High Water Table (A2)	∕ Aquatic	Fauna (B13)		Drainage Patterns (B10 Moss Trim Lines (B16)	r)		
✓ Saturation (A3)	Marl De	posits (B15)	-	(20)			
Water Marks (B1)		en Sulfide Odor (C1)	-	Dry-Season Water Table (C2)			
Sediment Deposits (B2)	Oxidized	d Rhizospheres on Living I	10013 (C3)	Crayfish Burrows (C8) Saturation Visible on A	orial Imagon (CO)		
Duift Danasita (D2)	Dunner	on of Dodgesond Issue (CA)	_		3 7 · ·		
Drift Deposits (B3) Algal Mat or Crust (B4)		e of Reduced Iron (C4) ron Reduction in Tilled So		Stunted or Stressed Pla Geomorphic Position (I			
Algai Mat of Crust (64) Iron Deposits (B5)		ron Reduction in Tilled So ick Surface (C7)		Geomorphic Position (I Shallow Aquitard (D3)	72)		
Inundation Visible on Aeria		explain in Remarks)		Microtopographic Relie	of (D4)		
Sparsely Vegetated Concar	· · · · · · · · · · · · · · · · · · ·	Apidin in Remarks,	_	✓ FAC-Neutral Test (D5)	(5 1)		
Field Observations:			<u>=</u>				
Surface Water Present?	Yes _ ✓ _ No	Depth (inches):	3				
Water Table Present?		•		Vetland Hydrology Preser	at? Vas / Na		
	Yes No	Depth (inches):		vedanu riyurology Preser	nt? Yes No		
Saturation Present?	Yes No	Depth (inches):	0				
(includes capillary fringe)							
Describe Recorded Data (stre	am gauge, monitoring well, ae	rial photos, previous insp	ections), if av	ailable:			
Remarks:							

Tron Stratum (Diet size, 20 ft.)	Absolute	Dominant	Indicator	Dominance Test worksheet	:		
Tree Stratum (Plot size: 30 ft) 1.	% Cover	Species?	Status	Number of Dominant Spec Are OBL, FACW, or FAC:	ies That	2	(A)
2.				Total Number of Dominant Across All Strata:	Species	2	(B)
3.				Percent of Dominant Specie	es That	400	(4 (5)
4 5.				Are OBL, FACW, or FAC:		100	(A/B)
6.				Prevalence Index workshee			
7.				Total % Cover of:		Multiply	-
	0	= Total Cov	/er		25	x 1 = _	25
Sapling/Shrub Stratum (Plot size:15 ft)		-	701		55	x 2 =	110
1				FAC species	0	x 3 =	0
2.		-		- FACU species	0	x 4 =	0
3.				UPL species	0	x 5 =	0
4.				Column Totals	80	(A)	135 (B)
·				Prevalence Index	= B/A =	1.7	
5.				Hydrophytic Vegetation Ind	licators:		
6.				1- Rapid Test for Hydr	ophytic Ve	egetation	
7				2 - Dominance Test is			
	0	= Total Cov	/er	3 - Prevalence Index is			
Herb Stratum (Plot size: <u>5 ft</u>)				4 - Morphological Ada		(Provide :	supporting
1. <i>Phalaris arundinacea</i>	55	Yes	FACW	data in Remarks or on a se			
2. <i>Eleocharis palustris</i>	25	Yes	OBL	Problematic Hydroph			plain)
3				_ Indicators of hydric soil an			•
4.				_ present, unless disturbed o			33
5.				Definitions of Vegetation St			
6.				Tree – Woody plants 3 in. (7		more in o	diameter at
7.				breast height (DBH), regard			aranneter at
8.				Sapling/shrub – Woody pla			BH and
9.				greater than or equal to 3.2			
10.				Herb – All herbaceous (non			gardless of
11.				size, and woody plants less		_	
				Woody vines – All woody vi	nes greate	er than 3.	28 ft in
12				height.	Ü		
	80	= Total Cov	/er	Hydrophytic Vegetation Pr	esent? V	es / N	10
Woody Vine Stratum (Plot size: 30 ft)				Trydrophlytic Vegetation 11	cociic.	CS _ V 1	
1				_			
2				=			
3				_			
4				_			
	0	= Total Co	/er				
Remarks: (Include photo numbers here or on a separat	e sheet)						
remarks. (include prioto hambers here or on a separat	c silect.)						

	Matrix	 -	Redo				_					
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type ¹	Loc²	Texture	Remarks				
0 - 12	10YR 3/1	6	7.5YR 5/8	6	C	M/PL						
		· — -		- —								
				-								
				-			-					
				_								
								· · ·				
								-				
	-	. — -		_								
												
	-											
	-											
Type: C = 0	Concentration, D = I	Deplet	ion, RM = Reduce	ed Ma	atrix, MS	= Masked	Sand Grains. ² L	ocation: PL = Pore Lining, M = Matrix.				
-	Indicators:							Indicators for Problematic Hydric Soils ³ :				
Histoso	l (A1)						R, MLRA 149B)	2 cm Muck (A10) (LRR K, L, MLRA 149B)				
Histic E _l	oipedon (A2)		Thin Dark S					Coast Prairie Redox (A16) (LRR K, L, R)				
	istic (A3)		Loamy Mud				.)	Coast Prairie Redox (AT6) (LRR K, L, K) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R)				
	en Sulfide (A4)		Loamy Gley					Dark Surface (S7) (LRR K, L)				
	d Layers (A5) d Below Dark Surfa	co (A1	Depleted M					Polyvalue Below Surface (S8) (LRR K, L)				
	ark Surface (A12)	ice (A i	Depleted D			7)		Thin Dark Surface (S9) (LRR K, L)				
	Mucky Mineral (S1)		Redox Dep			. ,		Iron-Manganese Masses (F12) (LRR K, L, R)				
•	Gleyed Matrix (S4)				,			Piedmont Floodplain Soils (F19) (MLRA 149B)				
-	Redox (S5)							Mesic Spodic (TA6) (MLRA 144A, 145, 149B)				
_	d Matrix (S6)							Red Parent Material (F21)				
Dark Su	ırface (S7) (LRR R, M	ILRA 1	49B)					Very Shallow Dark Surface (TF12) Other (Explain in Remarks)				
I.a.al: a.a.e.a.u.a	-£	. 4 . 4 !		سا سياس		h	4	•				
	of hydrophytic veg Layer (if observed):	etatior	i and welland ny	aroio	igy must	be presen	it, uniess disturbe	ed or problematic.				
resu icuve	Type:		Compaction			Hydric S	oil Present?	Yes No				
	Depth (inches):		12	-		nyunc 3	on Fresent:	res NO				
)omarket	Depth (inches).		12					·				
Remarks:												



Vegetation Photos



Project/Site: Trelina	City/County: Gen	eva, Ontario	Sampling Date: 2019-June-27			
Applicant/Owner: NextEra		State: NY	Sampling Point: W-N	WJ-36; UPL-1		
Investigator(s): Nick DeJohn, N	ate Jones	Section, Township,	Range:			
Landform (hillslope, terrace, etc.)	: Agricultural Field	Local relief (concave, conv	ex, none):Flat	Slope (%): 0-1		
Subregion (LRR or MLRA):	RR L	Lat: 42.870484674	3 Long: -76.9793225196	Datum: WGS84		
	k loamy fine sand, 2 to 6 percent slop		NWI classification	on:		
Are climatic/hydrologic condition	is on the site typical for this time of ye	ear? Yes No	_✓ (If no, explain in Remarks.)			
Are Vegetation <u></u> ✓, Soil,	or Hydrology significantly di		al Circumstances" present?	Yes No		
Are Vegetation, Soil,	or Hydrology naturally prob	lematic? (If needed,	explain any answers in Remarks	5.)		
SUMMARY OF FINDINGS – A	Attach site map showing sampli	ng point locations, trar	nsects, important features,	etc.		
Hydrophytic Vegetation Present?	? Yes No _ _/ _					
Hydric Soil Present?	Yes No _ ∠ _	Is the Sampled Area within	n a Wetland? Ye	s No⁄_		
		·				
Wetland Hydrology Present?	Yes No _ _ /	If yes, optional Wetland Si	te ib.			
Remarks: (Explain alternative pro	ocedures here or in a separate report	i)				
TRC covertype is UPL. Circumsta	inces are not normal due to agricultur	ral activities, Wetter than av	verage year			
	_					
HYDROLOGY						
Wetland Hydrology Indicators:						
	one is required; check all that apply)		Secondary Indicators (minimun	n of two required)		
Surface Water (A1)	Water-Stained Lea	aves (R9)	Surface Soil Cracks (B6)	•		
High Water Table (A2)	Aquatic Fauna (B1		Drainage Patterns (B10)			
Saturation (A3)	Marl Deposits (B1		Moss Trim Lines (B16)			
Water Marks (B1)	Hydrogen Sulfide		Dry-Season Water Table (C2)			
Sediment Deposits (B2)		heres on Living Roots (C3)	Crayfish Burrows (C8)			
			Saturation Visible on Aerial	Imagery (C9)		
Drift Deposits (B3)	Presence of Redu		Stunted or Stressed Plants (D1)		
Algal Mat or Crust (B4)		ction in Tilled Soils (C6)	Geomorphic Position (D2)			
Iron Deposits (B5)	Thin Muck Surface		Shallow Aquitard (D3)			
Inundation Visible on Aerial I		Remarks)	Microtopographic Relief (D4	4)		
Sparsely Vegetated Concave	Surface (B8)		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)						
	n gauge, monitoring well, aerial photo	s provious inspections) if:	available.			
Describe Recorded Data (stream	r gauge, mornitoring well, aeriai photo	s, previous irispections), ir a	ivaliable.			
Remarks:						

·				Di			
Tree Stratum (Plot size:30 ft)		Dominant		Dominance Test workshee			
	% Cover	Species?	Status	Number of Dominant Speare OBL, FACW, or FAC:	cies mai	0	(A)
1				Total Number of Dominan	t Consins		
2				Across All Strata:	t species	1	(B)
3				Percent of Dominant Spec	ios That		
4				Are OBL, FACW, or FAC:	ics mac	0	(A/B)
5				Prevalence Index workshe	et.		
6				Total % Cover of:		Multiply	Bv.
7				OBL species	0	x 1 =	0
	0	= Total Cove	r	FACW species	0	x 2 =	0
Sapling/Shrub Stratum (Plot size: 15 ft)				FAC species	0	x3=	0
1				FACU species		_	0
2					0	x 4 =	
3.				UPL species	0	x 5 = _	0
4.				Column Totals	0	(A) _	0 (B)
5.				Prevalence Inde	x = B/A = _		
6.				Hydrophytic Vegetation In	dicators:		
7.				1- Rapid Test for Hyd	rophytic V	egetation	
7.		= Total Cove		2 - Dominance Test is	s > 50%		
Hard Street (Diet siese 5 ft)		_ 10tal Cove	ſ	3 - Prevalence Index	is ≤ 3.0^{1}		
Herb Stratum (Plot size: <u>5 ft</u>)	1.5	\/	NII	4 - Morphological Ad	aptations1	(Provide	supporting
1. Glycine max	15	Yes	NI	data in Remarks or on a se	eparate she	eet)	
2.				Problematic Hydropl	nytic Veget	ation¹ (Ex	plain)
3				¹Indicators of hydric soil a	nd wetland	d hydrolog	gy must be
4				present, unless disturbed	or problen	natic	
5				Definitions of Vegetation S	Strata:		
6.				Tree – Woody plants 3 in. (7.6 cm) or	more in o	diameter at
7				breast height (DBH), regar	dless of he	eight.	
8				Sapling/shrub - Woody pla	ants less th	nan 3 in. D	DBH and
9				greater than or equal to 3.			
10.				Herb – All herbaceous (no			gardless of
11.				size, and woody plants les			
12.				Woody vines – All woody v	ines greate	er than 3.	.28 ft in
	15	= Total Cove	r	height.			
Woody Vine Stratum (Plot size:30 ft)		-		Hydrophytic Vegetation P	resent? Y	es N	lo <u> /</u>
1.							
2							
3.							
4.							
*·		= Total Cove					
		_ 10tal Cove	ſ				
Remarks: (Include photo numbers here or on a separ	ate sheet.)						

	•	to the de	•			indicato	r or confirm the	absence of indicators.)	
Depth _	Matrix		Redox				_		
(inches)	Color (moist)		Color (moist)	<u>%</u>	Type ¹	Loc²	Texture	e Remarks	
0 - 8	10YR 4/3	100		_			Silt Loar	n	
				_					
				_					
				_					
		· ·		_					_
				_					-
				_					
				_					
				_					
¹Tvpe: C = C	oncentration. D =	Depletio	n. RM = Reduced	— Mati	rix. MS =	Masked	Sand Grains. 2	Location: PL = Pore Lining, M = Matrix.	-
Hydric Soil			,		,			Indicators for Problematic Hydric Soils ³ :	
Histosol			Polyvalue Bel	۰۷۰۰ د	urfaco (C	(8) (I DD I	D MIDA 1/OD)	•	
	oipedon (A2)		Polyvalue Bei Thin Dark Sur					2 cm Muck (A10) (LRR K, L, MLRA 149B)	
	•							Coast Prairie Redox (A16) (LRR K, L, R)	
	Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2)							5 cm Mucky Peat or Peat (S3) (LRR K, L, R)	
	d Layers (A5)		Depleted Mat					Dark Surface (S7) (LRR K, L)	
	d Below Dark Surfa							Polyvalue Below Surface (S8) (LRR K, L)	
	ark Surface (A12)	acc (/ (/ / /	Depleted Dar)		Thin Dark Surface (S9) (LRR K, L)	
	fucky Mineral (S1)		Redox Depres			,		Iron-Manganese Masses (F12) (LRR K, L, R)	
-	Gleyed Matrix (S4)		Redox Depre	33101	13 (1 0)			Piedmont Floodplain Soils (F19) (MLRA 149B)	
_	-							Mesic Spodic (TA6) (MLRA 144A, 145, 149B)	
_	Redox (S5)							Red Parent Material (F21)	
	d Matrix (S6)							Very Shallow Dark Surface (TF12)	
Dark Su	rface (S7) (LRR R, N	/ILRA 149)B)					Other (Explain in Remarks)	
3Indicators	of hydronhytic veg	etation a	and wetland hydr	റിറത	v must h	e nreser	nt unless disturh	ed or problematic.	
	Layer (if observed):		ina wetiana nyar	0108.	y mast b	Preser	ic, arriess distarb	ed of problematic.	
			ampaction			Lludric	Cail Dracant?	Yes No _ _ _	
	Type:		compaction			пуштс	Soil Present?	resNo/	
	Depth (inches):		8						
Remarks:									

Hydrology Photos



Vegetation Photos

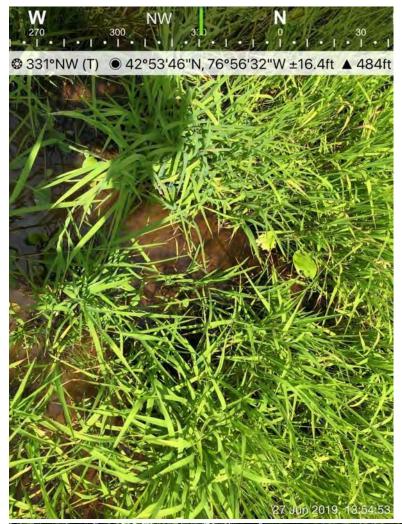




Project/Site: Trelina	City/County: Gen	eva, Ontario	Sampling Date: 2019-June-27			
Applicant/Owner: NextEra		State: NY	Sampling Point: W-	-NWJ-37; PEM-1		
Investigator(s): Nick DeJohn, N	late Jones	Section, Township,	Range:			
Landform (hillslope, terrace, etc.): Depression	Local relief (concave, conv	ex, none): Concave	Slope (%): 0-1		
Subregion (LRR or MLRA): L	.RR L	Lat: 42.870773677	8 Long: -76.9794791938	Datum: WGS84		
Soil Map Unit Name: Claverac	k loamy fine sand, 2 to 6 percent slope	es	NWI classificat	tion:		
Are climatic/hydrologic condition	ns on the site typical for this time of ye	ar? Yes No	_✓ (If no, explain in Remarks	.)		
Are Vegetation, Soil,	or Hydrology significantly dis		al Circumstances" present?	Yes No		
Are Vegetation, Soil,	or Hydrology naturally probl	ematic? (If needed,	explain any answers in Remar	ks.)		
SUMMARY OF FINDINGS - A	Attach site map showing sampli	ng point locations, tra	nsects, important features	s, etc.		
Hydrophytic Vegetation Present	? Yes No					
Hydric Soil Present?	Yes _ ✓ _ No	Is the Sampled Area with	n a Wetland?	es/_ No		
•		i				
Wetland Hydrology Present?	Yes No	If yes, optional Wetland S	ite ib.	/-NWJ-37		
Remarks: (Explain alternative pr	ocedures here or in a separate report)				
TRC covertype is PEM. Wetter th	an average year					
HYDROLOGY						
Wetland Hydrology Indicators:						
Primary Indicators (minimum of	one is required; check all that apply)		Secondary Indicators (minimu	<u>im of two required)</u>		
<u></u> Surface Water (A1)	Water-Stained Lea		Surface Soil Cracks (B6)			
<u>✓</u> High Water Table (A2)	Aquatic Fauna (B1		Drainage Patterns (B10) Moss Trim Lines (B16)			
✓ Saturation (A3)	Marl Deposits (B1		Dry-Season Water Table (C2)			
Water Marks (B1) Sediment Deposits (B2)	Hydrogen Sulfide	neres on Living Roots (C3)	- C. I (CC)			
Sediment Deposits (B2)	Oxidized Rilizospi	ieres on Living Roots (C3)	Saturation Visible on Aerial Imagery (C9)			
Drift Deposits (B3)	Presence of Redu	ced Iron (C4)	Stunted or Stressed Plants (D1)			
Algal Mat or Crust (B4)		ction in Tilled Soils (C6)	Stanted of Stressed Flants (DT) Geomorphic Position (D2)			
Iron Deposits (B5)	Thin Muck Surface		Shallow Aquitard (D3)			
Inundation Visible on Aerial	Imagery (B7) Other (Explain in F	Remarks)	Microtopographic Relief (D	04)		
Sparsely Vegetated Concave	Surface (B8)		✓ FAC-Neutral Test (D5)			
Field Observations:						
Surface Water Present?	Yes No Depth	(inches): 3				
Water Table Present?	Yes No Depth	(inches): 0	Wetland Hydrology Present?	Yes No		
Saturation Present?	Yes _✓_ No Depth	(inches): 0				
(includes capillary fringe)						
	n gauge, monitoring well, aerial photo	nrevious inspections) if	availahla:	•		
Describe Recorded Data (stream	T gauge, mornicornig well, aeriai prioco.	s, previous irispections,, ir	available.			
Para autor						
Remarks:						
i e e e e e e e e e e e e e e e e e e e						

·				S . T . II .			
<u>Tree Stratum</u> (Plot size: <u>30 ft</u>)		Dominant		Dominance Test worksheet			
·	% Cover	Species?	Status	Number of Dominant Spec	ies That	2	(A)
1				Are OBL, FACW, or FAC:			
2				Total Number of Dominant	Species	2	(B)
3	_			Across All Strata:	-		
4.				Percent of Dominant Speci	es inat	100	(A/B)
5.				Are OBL, FACW, or FAC:	-		
6.				Prevalence Index workshee			
7.				Total % Cover of:		Multiply E	•
	0	= Total Cove	r	OBL species	60	x 1 =	60
Sapling/Shrub Stratum (Plot size:15 ft)		-		FACW species	5	x 2 =	10
1				FAC species	0	x 3 =	0
2.				FACU species	0	x 4 =	0
-				UPL species	0	x 5 =	0
3.				Column Totals	65	(A)	70 (B)
4				Prevalence Index	c = B/A =	1.1	
5				Hydrophytic Vegetation Inc			
6				1- Rapid Test for Hydr		egetation	
7				2 - Dominance Test is		egetation	
	0	= Total Cove	er	✓ 3 - Prevalence Index is			
Herb Stratum (Plot size: 5 ft)						(Dravida a	unnorting
1. Carex vulpinoidea	45	Yes	OBL	4 - Morphological Ada data in Remarks or on a se			upporting
2. Juncus effusus	15	Yes	OBL	Problematic Hydroph			alain)
3. <i>Phalaris arundinacea</i>		No	FACW	¹Indicators of hydric soil an	-		
4.				present, unless disturbed of		-	y must be
5.				-		iatic	
6.				Definitions of Vegetation St			
7.				Tree – Woody plants 3 in. (7			iameter at
				breast height (DBH), regard			Diland
8				Sapling/shrub – Woody pla greater than or equal to 3.2			ъп апи
9				Herb – All herbaceous (nor			ardlass of
10				size, and woody plants less		_	aruless or
11				Woody vines – All woody vi			00 ft in
12				height.	iles great	CI (IIaII 3.2	20 11 111
	65	= Total Cove	er				
Woody Vine Stratum (Plot size: 30 ft)				Hydrophytic Vegetation Pr	esent? Y	es 🚣 No	o
1	_						
2.							
3.							
4.							
	0	= Total Cove	r				
	-	-					
Remarks: (Include photo numbers here or on a separ	ate sheet.)						

Depth Matrix	. to the d	-	locume Featu		ndicator	or confirm the a	bsence of indicators.)
(inches) Color (moist)	%	Color (moist)		Type ¹	Loc ²	Texture	Remarks
0 - 12 10YR 3/2	93	7.5YR 4/6	7	C	М	Silty Clay	
			· — -				
						_	
¹Type: C = Concentration, D =	= Depletic	n, RM = Reduced	d Matri	x, MS = I	 Masked	Sand Grains. ² L	ocation: PL = Pore Lining, M = Matrix.
Hydric Soil Indicators:							Indicators for Problematic Hydric Soils ³ :
Histosol (A1)						R, MLRA 149B)	2 cm Muck (A10) (LRR K, L, MLRA 149B)
Histic Epipedon (A2)		Thin Dark Su					Coast Prairie Redox (A16) (LRR K, L, R)
Black Histic (A3)		Loamy Muck	-		LRR K, L	.)	5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
Hydrogen Sulfide (A4)		Loamy Gleye					Dark Surface (S7) (LRR K, L)
Stratified Layers (A5)		Depleted Ma					Polyvalue Below Surface (S8) (LRR K, L)
Depleted Below Dark Sur	tace (A11						Thin Dark Surface (S9) (LRR K, L)
Thick Dark Surface (A12)		Depleted Da					Iron-Manganese Masses (F12) (LRR K, L, R)
Sandy Mucky Mineral (S1	-	Redox Depre	essions	(F8)			Piedmont Floodplain Soils (F19) (MLRA 149B)
Sandy Gleyed Matrix (S4)							Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
Sandy Redox (S5)							Red Parent Material (F21)
Stripped Matrix (S6)							Very Shallow Dark Surface (TF12)
Dark Surface (S7) (LRR R,	MLRA 14	9B)					Other (Explain in Remarks)
³ Indicators of hydrophytic ve	_	and wetland hyd	rology	must be	presen	t, unless disturbe	ed or problematic.
Restrictive Layer (if observed):						
Type:		Compaction	=		Hydric	Soil Present?	Yes No
Depth (inches):		12					
Remarks:							



Vegetation Photos



Project/Site: Trelina	City/County: Ger	neva, Ontario	Sampling Date: 2019-June-27			
Applicant/Owner: NextEra		State: NY	Sampling Point: W-	NWJ-37; UPL-1		
Investigator(s): Nick DeJohn, Na	ate Jones	Section, Township,	Range:			
Landform (hillslope, terrace, etc.):	: Agricultural Field	Local relief (concave, conv	ex, none): Flat	Slope (%): 0-1		
Subregion (LRR or MLRA): LF	RR L	Lat: 42.870752723	Long: -76.9794542995	Datum: WGS84		
Soil Map Unit Name: Claverack	cloamy fine sand, 2 to 6 percent slop	oes	NWI classificati	on:		
Are climatic/hydrologic conditions	s on the site typical for this time of ye	ear? Yes No	✓ (If no, explain in Remarks.))		
Are Vegetation <u></u> , Soil,	or Hydrology significantly di		al Circumstances" present?	Yes No		
Are Vegetation, Soil,	or Hydrology naturally prob	olematic? (If needed,	explain any answers in Remark	(s.)		
Summary of Findings – A	ttach site map showing sampli	ing point locations, trar	nsects, important features	, etc.		
Hydrophytic Vegetation Present?	Yes No _ ✓					
Hydric Soil Present?	Yes No	Is the Sampled Area within	n a Wetland?	es No⁄_		
		·				
Wetland Hydrology Present?	Yes No _ _	If yes, optional Wetland Si	te ID:			
Remarks: (Explain alternative pro	ocedures here or in a separate report	t)				
TRC covertype is UPL. Circumsta	nces are not normal due to agricultu	ral activities. Wetter than av	verage vear			
The coron ()	1000 0.10 1.00 1.11 1.11 1.11 1.11 1.11	Tul Gentlere,	cruge yes.			
HYDROLOGY						
Wetland Hudrolagu Indicators						
Wetland Hydrology Indicators:	to the street of the street and the street and the		Control and set are (minimus	- f + irod)		
•	one is required; check all that apply)		Secondary Indicators (minimu	<u>m of two requirea)</u>		
Surface Water (A1)	Water-Stained Le		Surface Soil Cracks (B6)Drainage Patterns (B10)			
High Water Table (A2)	Aquatic Fauna (B		Moss Trim Lines (B16)			
Saturation (A3)	Marl Deposits (B1		Dry-Season Water Table (C2)			
Water Marks (B1)	Hydrogen Sulfide		- C.I (-0)			
Sediment Deposits (B2)	Oxlaizea knizosp	heres on Living Roots (C3)	Saturation Visible on Aeria	I Imagery (C9)		
Drift Deposits (B3)	Presence of Redu	read Iron (C4)	Stunted or Stressed Plants			
Algal Mat or Crust (B4)		aced from (C4) action in Tilled Soils (C6)	Geomorphic Position (D2)	(D1)		
Iron Deposits (B5)	Thin Muck Surfac		Shallow Aquitard (D3)			
Inundation Visible on Aerial I			Microtopographic Relief (D	4)		
Sparsely Vegetated Concave S		,	FAC-Neutral Test (D5)	,		
Field Observations:						
Surface Water Present?	Yes No _ _ Depth	ı (inches):				
Water Table Present?	•	(inches):	Wetland Hydrology Present?	Yes No _∠		
Water Table Fresent!			Wedand Hydrology Fresent?	ies No _ _ /_		
C + +: D +:2	Yes No Depth	(inches):				
Saturation Present?						
Saturation Present? (includes capillary fringe)						
(includes capillary fringe)	gauge, monitoring well, aerial photo	os, previous inspections), if a	available:			
(includes capillary fringe)	gauge, monitoring well, aerial photo	os, previous inspections), if a	available:			
(includes capillary fringe)	gauge, monitoring well, aerial photo	os, previous inspections), if a	available:			
(includes capillary fringe) Describe Recorded Data (stream	gauge, monitoring well, aerial photo	os, previous inspections), if a	available:			
(includes capillary fringe)	gauge, monitoring well, aerial photo	os, previous inspections), if a	available:			
(includes capillary fringe) Describe Recorded Data (stream	gauge, monitoring well, aerial photo	os, previous inspections), if a	available:			
(includes capillary fringe) Describe Recorded Data (stream	gauge, monitoring well, aerial photo	os, previous inspections), if a	available:			
(includes capillary fringe) Describe Recorded Data (stream	gauge, monitoring well, aerial photo	os, previous inspections), if a	available:			
(includes capillary fringe) Describe Recorded Data (stream	gauge, monitoring well, aerial photo	os, previous inspections), if a	available:			
(includes capillary fringe) Describe Recorded Data (stream	gauge, monitoring well, aerial photo	os, previous inspections), if a	available:			

'							
<u>Tree Stratum</u> (Plot size: <u>30 ft</u>)		Dominant		Dominance Test workshe			
	% Cover	Species?	Status	Number of Dominant Sp	ecies That	0	(A)
1				Are OBL, FACW, or FAC:	-+ Ci		
2				Total Number of Domina Across All Strata:	nt Species	1	(B)
3.				Percent of Dominant Spe	scios That		
4				- Are OBL, FACW, or FAC:	cies mai	0	(A/B)
5				Prevalence Index worksh	oot.		
6				- Total % Cover of		Multiply I	2ve
7.				- OBL species	0	x 1 =	<u>. y.</u> 0
	0	= Total Cove	er	FACW species	0	_	0
Sapling/Shrub Stratum (Plot size:15 ft)		_		_ · _		x 2 =	
1.				FAC species	0	x 3 =	0
2				FACU species	0	x 4 =	0
3.				- UPL species	0	x 5 =	0
4.				- Column Totals	0	(A)	0 (B)
	· ——			Prevalence Ind	ex = B/A =		
5				Hydrophytic Vegetation I	ndicators:		
6				1- Rapid Test for Hy		egetation	
7				2 - Dominance Test		Ü	
	0	_= Total Cove	er	3 - Prevalence Inde	$x = 3.0^{1}$		
<u>Herb Stratum</u> (Plot size: <u>5 ft</u>)				4 - Morphological A		(Provide s	sunnorting
1. <i>Glycine max</i>	35	Yes	NI	- data in Remarks or on a			apporting
2				- Problematic Hydro			nlain)
3.				- Indicators of hydric soil			
4.				present, unless disturbed			sy must be
5.	-	-		Definitions of Vegetation		Tiddic	
6.	· ——			_		more in a	liamotor at
7.				Tree – Woody plants 3 in breast height (DBH), rega			nameter at
				='			DILand
8.				Sapling/shrub – Woody p greater than or equal to			DH allu
9				Herb – All herbaceous (n			ardlass of
10				size, and woody plants le	-		aruless or
11	<u> </u>			- Woody vines – All woody			20 ft in
12				height.	viries great	er triair 5	20 11 111
	35	= Total Cove	er				
Woody Vine Stratum (Plot size: 30 ft)				Hydrophytic Vegetation	Present? \	/es N	o <u> </u>
1.							
2.				-			
3.	· (-			
4.				=			
··· -	0	= Total Cove	ar	-			
		_ Total Cove	-1				
Remarks: (Include photo numbers here or on a separa	te sheet.)						
Active agricultural field							
3							

	cription: (Describe t	to the de	-			indicato	r or confirm the at	sence of	findicators.)
Depth _	Matrix		Redox						
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type ¹	Loc ²	Texture		Remarks
0 - 8	10YR 4/3	100					Silt Loam		
									-
		. <u></u>							
				_					
		· 		_					
				_					
				-			•		
				_					
				-					
				· .—		 .			
	Concentration, D = I	Depletio	n, RM = Reduced	Mat	rix, MS =	Masked	Sand Grains. ² Lo		PL = Pore Lining, M = Matrix.
Hydric Soil								Indicato	ors for Problematic Hydric Soils ³ :
Histosol			Polyvalue Below Surface (S8) (LRR R, MLRA 149B) Thin Dark Surface (S9) (LRR R, MLRA 149B)					2 cn	n Muck (A10) (LRR K, L, MLRA 149B)
	oipedon (A2)							Coa	st Prairie Redox (A16) (LRR K, L, R)
Black Hi			Loamy Muck	•		(LKK K, I	L)	5 cn	n Mucky Peat or Peat (S3) (LRR K, L, R)
	en Sulfide (A4)		Loamy Gleye					Darl	k Surface (S7) (LRR K, L)
	d Layers (A5)	000 (111	Depleted Ma					Poly	value Below Surface (S8) (LRR K, L)
	ark Surface (A12)	ace (ATT	· 	Redox Dark Surface (F6) Depleted Dark Surface (F7)				Thir	n Dark Surface (S9) (LRR K, L)
	fucky Mineral (S1)		Redox Depre			,		Iron	-Manganese Masses (F12) (LRR K, L, R)
_	ileyed Matrix (S4)		Redox Depre	33101	15 (1-0)			Piec	lmont Floodplain Soils (F19) (MLRA 149B)
-								Mes	sic Spodic (TA6) (MLRA 144A, 145, 149B)
_	edox (S5)							Red	Parent Material (F21)
	Matrix (S6)		200					Very	/ Shallow Dark Surface (TF12)
Dark Su	rface (S7) (LRR R, M	ILRA 149	9B)					Oth	er (Explain in Remarks)
3Indicators	of hydrophytic veg	etation a	and wetland hydr	olog	y must b	e preser	nt, unless disturbe	d or prob	elematic.
Restrictive I	_ayer (if observed):								
	Туре:		Compaction			Hydric	Soil Present?		Yes No/_
	Depth (inches):		8						
Remarks: Observed s	oil compaction was	s due to	agricultural activ	ities.					

Hydrology Photos



Vegetation Photos



Project/Site: Trelina	City/County: Syra	cuse, Onondaga	Sampling Date: 2019-June-28			
Applicant/Owner: NextEra		State: NY	Sampling I	Point: W-NWJ-38; PEM-1		
Investigator(s): Nick DeJohn, N	late Jones	Section, Township,	Range:			
Landform (hillslope, terrace, etc.): Depression	Local relief (concave, conv	ex, none): Concave	Slope (%): 0-1		
Subregion (LRR or MLRA):L	.RR L	Lat: 42.871408	Long: -76.97844	Datum: WGS84		
Soil Map Unit Name: Lakemor	nt silty clay loam, 0 to 2 percent slopes	<u> </u>	NWI	classification:		
Are climatic/hydrologic condition	ns on the site typical for this time of ye	ar? Yes No	$\underline{\hspace{0.1in}}$ (If no, explain in	Remarks.)		
Are Vegetation, Soil,	or Hydrology significantly dis		al Circumstances" pre	esent? Yes 🟒 No		
Are Vegetation, Soil,	or Hydrology naturally probl	ematic? (If needed,	explain any answers	in Remarks.)		
SUMMARY OF FINDINGS - A	Attach site map showing sampliı	ng point locations, trai	nsects, important	features, etc.		
Hydrophytic Vegetation Present	? Yes √ No					
Hydric Soil Present?	Yes _ ✓ No	Is the Sampled Area with	n a Wetland?	Yes/_ No		
•		·				
Wetland Hydrology Present?	Yes No	If yes, optional Wetland S	ite ID:	<u>W-NWJ-38</u>		
Remarks: (Explain alternative pr	ocedures here or in a separate report)				
TRC covertype is PEM. Wetter th	an average year					
HYDROLOGY						
HIDROLOGI						
Wetland Hydrology Indicators:						
Primary Indicators (minimum of	one is required; check all that apply)		Secondary Indicator	s (minimum of two required)		
<u> ✓</u> Surface Water (A1)	Water-Stained Lea	aves (B9)	Surface Soil Crac	• •		
<u></u> High Water Table (A2)	Aquatic Fauna (B1	3)	Drainage Patterns (B10)			
<u>✓</u> Saturation (A3)	Marl Deposits (B1		Moss Trim Lines (B16)			
Water Marks (B1)	Hydrogen Sulfide		Dry-Season Water Table (C2)			
Sediment Deposits (B2)	Oxidized Rhizosph	neres on Living Roots (C3)	Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9)			
Drift Deposits (B3)	Presence of Redu	ced Iron (CA)				
Algal Mat or Crust (B4)		ction in Tilled Soils (C6)	Stunted or Stressed Plants (D1) Geomorphic Position (D2)			
Iron Deposits (B5)	Thin Muck Surface		Shallow Aquitard			
Inundation Visible on Aerial			Microtopographi			
Sparsely Vegetated Concave	Surface (B8)		✓ FAC-Neutral Test			
Field Observations:						
Surface Water Present?	Yes No Depth	(inches): 1				
Water Table Present?	Yes <u></u> ✓ No Depth	(inches): 0	Wetland Hydrology I	Present? Yes No		
Saturation Present?	•	(inches): 0				
	Tes _ √ _ No	(IIICHES).				
(includes capillary fringe)						
Describe Recorded Data (strean	n gauge, monitoring well, aerial photos	s, previous inspections), if	available:			
Remarks:						

γ				1			
Tree Stratum (Plot size: 30 ft)		Dominant		Dominance Test worksho			
·	% Cover	Species?	Status	Number of Dominant Sp	ecies That	2	(A)
1				Are OBL, FACW, or FAC:	C		
2				Total Number of Domina Across All Strata:	ant Species	2	(B)
3				Percent of Dominant Spe	aciac That		
4				Are OBL, FACW, or FAC:	ecies mat	100	(A/B)
5				Prevalence Index worksh	noot:		
6				Total % Cover o		Multiply E). <i>p</i>
7.				OBL species		Multiply E x 1 =	
	0	= Total Cov	er		40	_	40
Sapling/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
3.				UPL species	0	x 5 =	0
				Column Totals	40	(A)	40 (B)
4				Prevalence Inc	lex = B/A =	1	
5				Hydrophytic Vegetation	Indicators:		
6				1- Rapid Test for Hy		egetation	
7				✓ 2 - Dominance Test		08000000	
	0	= Total Cov	er	✓ 3 - Prevalence Inde			
Herb Stratum (Plot size:5 ft)				4 - Morphological A		(Drovido c	upporting
1. Eleocharis palustris	30	Yes	OBL	data in Remarks or on a			apporting
2. Ranunculus sceleratus	10	Yes	OBL	Problematic Hydro	•		alain)
3.							
4.				Indicators of hydric soil present, unless disturbe		, ,	y must be
5.				•		Hauc	
6.				Definitions of Vegetation			
				Tree – Woody plants 3 in			iameter at
7				breast height (DBH), reg			
8				Sapling/shrub - Woody p			BH and
9				greater than or equal to			
10				Herb – All herbaceous (n			ardless of
11				size, and woody plants le			00 ft i
12				Woody vines – All woody	vines great	er than 3.2	28 π in
	40	= Total Cov	er	height.			
Woody Vine Stratum (Plot size:30 ft)		=		Hydrophytic Vegetation	Present? \	∕es <u> </u>	0
1.							
2.				•			
3.				•			
4.		-		•			
*·	0	- Total Cov	or	=			
		= Total Cov	er				
Remarks: (Include photo numbers here or on a separat	e sheet.)						

Profile Desc Depth	ription: (Describe t Matrix	o the d	epth needed to d			indicator	or confirm the a	absence of indicato	ors.)
–		0/-				1002	Tove	tura	Domarko
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type ¹	Loc ²		ture	Remarks
0 - 14	10YR 3/1	96	10YR 6/8	4	C	<u>M</u>	Slity Cla	ay Loam	
				- —					
								_	
				- —					
								<u> </u>	
				_					
		_		_					
1Type: C = C	oncentration D = [) Denletic	on PM = Peducec	- <u>—</u>	riv MS =	Maskad	Sand Grains 21	Location: PL = Pore	Lining, M = Matrix.
Hydric Soil I		repietit	on, Rivi – Reduced	ı ıvıat	11X, 1VI3 -	Maskeu	Sand Grains		
,			Daharahia Da			:0\ (I DD F	MI DA 140D)		roblematic Hydric Soils³:
Histosol			Polyvalue Be						A10) (LRR K, L, MLRA 149B)
HISCIC EP	ipedon (A2)		Thin Dark Su Loamy Muck						e Redox (A16) (LRR K, L, R)
	n Sulfide (A4)		Loamy Gleye	•		(LKK K, L	,		Peat or Peat (S3) (LRR K, L, R)
	d Layers (A5)		Depleted Ma					Dark Surface	
	d Below Dark Surfa	ce (A11							elow Surface (S8) (LRR K, L)
	rk Surface (A12)		Depleted Da)			urface (S9) (LRR K, L)
	lucky Mineral (S1)		Redox Depre					_	nese Masses (F12) (LRR K, L, R)
Sandy G	leyed Matrix (S4)								oodplain Soils (F19) (MLRA 149B)
-	edox (S5)							•	c (TA6) (MLRA 144A, 145, 149B)
-	l Matrix (S6)							Red Parent I	
	rface (S7) (LRR R, M	I RA 14	9B)						v Dark Surface (TF12)
	(, (_ , (_ , , (_ , , , , , , , , , , , , , , , , , ,		,					Other (Expla	in in Remarks)
3Indicators o	of hydrophytic vege	etation	and wetland hyd	rolog	y must b	e presen	t, unless disturb	ed or problematic.	
Restrictive L	.ayer (if observed):								
	Type:		Clay			Hydric	Soil Present?		Yes No
	Depth (inches):		14						
Remarks:	·			_					

Hydrology Photos



Soil Photos



Project/Site: Trelina	City/County: Syra	acuse, Onondaga	Sampling Date: 2019-June-28			
Applicant/Owner: NextEra		State: NY	Sá	ampling Point: W-NW	J-38; UPL-1	
Investigator(s): Nick DeJohn, Na	ate Jones	Section, Township,	Range:			
Landform (hillslope, terrace, etc.):	: Agricultural Field	Local relief (concave, conv	ex, none):_F	-lat	Slope (%): 0-1	
Subregion (LRR or MLRA):	RR L	Lat: 42.870599	Long: -	76.97941	Datum: WGS84	
Soil Map Unit Name: Lakemon	it silty clay loam, 0 to 2 percent slopes	5		NWI classification:		
Are climatic/hydrologic conditions	s on the site typical for this time of ye	ear? Yes No	_ ∠ (If no, e	xplain in Remarks.)		
Are Vegetation, Soil,	or Hydrology significantly di	sturbed? Are "Norm	al Circumstaı	nces" present? Ye	es No	
Are Vegetation, Soil,	or Hydrology naturally prob	lematic? (If needed,	explain any	answers in Remarks.)		
SUMMARY OF FINDINGS – A	ttach site map showing sampli	ng point locations, trar	nsects, imp	ortant features, et	tc.	
Hydrophytic Vegetation Present?	? Yes No _ _/ _					
Hydric Soil Present?	Yes No _ _∕ _	Is the Sampled Area withi	n a Wetland?	? Yes	No⁄_	
_		i		-		
Wetland Hydrology Present?	Yes No _ _ ✓	If yes, optional Wetland S	ite iD:			
Remarks: (Explain alternative pro	ocedures here or in a separate report	·)				
TRC covertype is UPL. Wetter tha	ın average year					
HYDROLOGY						
Wetland Hydrology Indicators:						
Primary Indicators (minimum of	one is required; check all that apply)		-	Indicators (minimum o	of two required)	
Surface Water (A1)	Water-Stained Lea			Soil Cracks (B6)		
High Water Table (A2)	Aquatic Fauna (B1		Drainage Patterns (B10)			
Saturation (A3)	Marl Deposits (B1		Moss Trim Lines (B16)			
Water Marks (B1)	Hydrogen Sulfide		Dry-Season Water Table (C2) Crayfish Burrows (C8)			
Sediment Deposits (B2)	Oxidized knizospi	heres on Living Roots (C3)	-	on Visible on Aerial Im	nagery (C9)	
Drift Deposits (B3)	Presence of Redu	ced Iron (C4)		or Stressed Plants (D1		
Algal Mat or Crust (B4)		ction in Tilled Soils (C6)	· 	rphic Position (D2)	' /	
Iron Deposits (B5)	Thin Muck Surface			Aquitard (D3)		
Inundation Visible on Aerial I				pographic Relief (D4)		
Sparsely Vegetated Concave :				utral Test (D5)		
Field Observations:						
Surface Water Present?	Yes No Depth	(inches):				
Water Table Present?	Yes No <u></u> Depth	(inches):	- Wetland Hy	drology Present?	Yes No ∠	
Saturation Present?		(inches):	1 1		•	
(includes capillary fringe)	.esre		-			
		\ i			<u> </u>	
Describe Recorded Data (stream	gauge, monitoring well, aerial photo	s, previous inspections), if a	avaliable:			
Remarks:						

•				T			
Tree Stratum (Plot size: 30 ft)		Dominant		Dominance Test workshe			
	% Cover	Species?	Status	Number of Dominant Spe	ecies That	0	(A)
1				Are OBL, FACW, or FAC:			
2				Total Number of Dominar	nt Species	1	(B)
3				Across All Strata:	-1 - Th - 6		
4				Percent of Dominant Spe	cies i nat	0	(A/B)
5.				Are OBL, FACW, or FAC:			
6.				Prevalence Index worksho			_
7.				Total % Cover of	_	Multiply I	
	0	= Total Cove	r	OBL species	0	x 1 =	0
Sapling/Shrub Stratum (Plot size: 15 ft)		-		FACW species	0	x 2 =	0
1. Zea mays	25	Yes	UPL	FAC species	0	x 3 =	0
		163	OFL	FACU species	0	x 4 =	0
2.				- UPL species	25	x 5 =	125
				Column Totals	25	(A)	125 (B)
4				Prevalence Inde	ex = B/A =	5	
5				Hydrophytic Vegetation Ir			
6				1- Rapid Test for Hyd		logotation	
7				2 - Dominance Test i		egetation	
	25	= Total Cove	er				
Herb Stratum (Plot size:5 ft)	,	=		3 - Prevalence Index		(D : 1	
1.				4 - Morphological Ad			supporting
2.				data in Remarks or on a s	•		
3.				Problematic Hydrop			•
4.				¹Indicators of hydric soil a			gy must be
5.				present, unless disturbed	•	nauc	
-				Definitions of Vegetation			
6.				Tree - Woody plants 3 in.			diameter at
7				breast height (DBH), rega			
8				Sapling/shrub - Woody pl			OBH and
9.				greater than or equal to 3			
10				Herb – All herbaceous (no		-	gardless of
11				size, and woody plants le			20.6.1
12				Woody vines – All woody	vines great	er than 3.	28 π In
	0	= Total Cove	er	height.			
Woody Vine Stratum (Plot size:30 ft)	,	=		Hydrophytic Vegetation I	Present? Y	'es N	lo _ _/ _
1.							
2.				-			
3.				-			
4.				=			
<u> </u>		= Total Cove	r	-			
		_ Total Cove	.1				
Remarks: (Include photo numbers here or on a separ	rate sheet.)						
Active agricultural field							

Profile Description: (Describe to Depth Matrix	· ·	ocument the i	ndicator or confirm	the absence of indicators.)			
(inches) Color (moist)	% Color (moist)	% Type ¹	Loc² Tex	exture Remarks			
0 - 10 10YR 4/3	100	70 Туре		Loam			
0-10 101114/3	100	· – – – –		Loani			
		· — — —					
		. — ——					
							
	·	· — ·					
¹Type: C = Concentration, D = D	Depletion, RM = Reduced	Matrix. MS =	Masked Sand Grains	ns. ² Location: PL = Pore Lining, M = Matrix.			
Hydric Soil Indicators:				Indicators for Problematic Hydric Soils ³ :			
Histosol (A1)	Polyvalue Rel	low Surface (S	8) (LRR R, MLRA 149	on)			
Histic Epipedon (A2)	Thin Dark Su		2 cm wack (A10) (Likk K, L, WEIGH 1430)				
Black Histic (A3)	Loamy Muck			Coast Prairie Redox (A16) (LRR K, L, R)			
Hydrogen Sulfide (A4)	Loamy Gleye		(=, =)	5 cm Mucky Peat or Peat (S3) (LRR K, L, R)			
Stratified Layers (A5)	Depleted Ma			Dark Surface (S7) (LRR K, L)			
Depleted Below Dark Surfa				Polyvalue Below Surface (S8) (LRR K, L)			
Thick Dark Surface (A12)	Depleted Dar	k Surface (F7)		Thin Dark Surface (S9) (LRR K, L)			
Sandy Mucky Mineral (S1)	Redox Depre	ssions (F8)		Iron-Manganese Masses (F12) (LRR K, L, R)			
Sandy Gleyed Matrix (S4)				Piedmont Floodplain Soils (F19) (MLRA 149B)			
Sandy Redox (S5)				Mesic Spodic (TA6) (MLRA 144A, 145, 149B)			
Stripped Matrix (S6)				Red Parent Material (F21)			
Dark Surface (S7) (LRR R, M	LRA 149B)			Very Shallow Dark Surface (TF12)			
				Other (Explain in Remarks)			
³ Indicators of hydrophytic vege	etation and wetland hydr	ology must be	e present, unless dis	sturbed or problematic.			
Restrictive Layer (if observed):							
Type:	Compaction	_	Hydric Soil Present	rt? Yes No <u>/</u>			
Depth (inches):	10						
Remarks: Observed soil compaction was	due to agricultural activ	ities.					



Soil Photos



Project/Site: Trelina		City/County: Syracuse, Ono	ndaga	Sampling I	Sampling Date: 2019-June-28		
Applicant/Owner: NextEra			State: NY	Sampling Po	int: W-NWJ-39; PEM-1		
Investigator(s): Nick DeJohn,	Nate Jones	Se	ction, Township,	Range:			
Landform (hillslope, terrace, et	c.): Depression	Local relie	ef (concave, conv	ex, none): Concave	Slope (%): 0-1		
Subregion (LRR or MLRA):	LRR L	Lat	: 42.870542	Long: -76.979441	Datum: WGS84		
Soil Map Unit Name: Clavera	ack loamy fine sand, 2	to 6 percent slopes		NWI cla	assification:		
Are climatic/hydrologic condition			Yes No	(If no, explain in Re	emarks.)		
Are Vegetation, Soil		significantly disturbed?		al Circumstances" prese			
Are Vegetation, Soil	_, or Hydrology	naturally problematic?	(If needed,	explain any answers in	Remarks.)		
SUMMARY OF FINDINGS -	Attach site map s	showing sampling point	locations, trar	nsects, important fe	atures, etc.		
Hydrophytic Vegetation Prese	nt? Yes	✓_ No					
Hydric Soil Present?		i	npled Area withi	n a Wetland?	Yes/_ No		
		i	•				
Wetland Hydrology Present?			tional Wetland S	ite iD:	W-NWJ-39		
Remarks: (Explain alternative p	procedures here or in	a separate report)					
TRC covertype is PEM. Wetter	than average year						
,	0 7						
HYDROLOGY							
Wetland Hydrology Indicators:	•						
Primary Indicators (minimum		ock all that apply)		Cocondany Indicators (minimum of two required)		
	•			•	minimum of two required)		
✓ Surface Water (A1)		Water-Stained Leaves (B9)		Surface Soil Cracks Drainage Patterns (
✓ High Water Table (A2)		Aquatic Fauna (B13)		Moss Trim Lines (B			
✓ Saturation (A3)		Marl Deposits (B15)		Dry-Season Water			
Water Marks (B1)		Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on L		Crayfish Burrows (0			
Sediment Deposits (B2)	_	Oxidized Kriizosprieres on L	IVITIG ROOLS (C3)	Saturation Visible o			
Drift Deposits (B3)		Presence of Reduced Iron (C	·4)	Stunted or Stressed	3 ,		
Algal Mat or Crust (B4)		Recent Iron Reduction in Till		Geomorphic Position			
Iron Deposits (B5)		Thin Muck Surface (C7)	(,	Shallow Aquitard ([
Inundation Visible on Aeria		Other (Explain in Remarks)		Microtopographic F			
Sparsely Vegetated Concav	J ,	, ,		✓ FAC-Neutral Test (D			
Field Observations:							
Surface Water Present?	Yes <u></u> ✓ No	Depth (inches):	2				
Water Table Present?	Yes _ ✓ No		0	Wetland Hydrology Pre	esent? Yes No		
				Treducia riyarology Fit			
Saturation Present?	Yes No	Depth (inches):	0				
(includes capillary fringe)							
Describe Recorded Data (stream	am gauge, monitoring	well, aerial photos, previous	inspections), if a	available:			
Remarks:							
I							

<u>Tree Stratum</u> (Plot size: <u>30 ft</u>)		Dominant		Dominance Test worksho			
	% Cover	Species?	Status	Number of Dominant Sp	ecies That	1	(A)
1				Are OBL, FACW, or FAC:			
2				Total Number of Domina Across All Strata:	ant Species	1	(B)
3					: Th -+		
4				Percent of Dominant Speare OBL, FACW, or FAC:	ecies mai	100	(A/B)
5				Prevalence Index worksh			
6.						Multiply D). <i>n</i>
7.				Total % Cover o		Multiply E	
	0	= Total Cov	er	OBL species	55	x 1 =	55
Sapling/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
3.				UPL species	0	x 5 =	0
				Column Totals	55	(A)	55 (B)
4				Prevalence Inc	lex = B/A =	1	
5				Hydrophytic Vegetation	Indicators:		
6				1- Rapid Test for Hy		/egetation	
7				✓ 2 - Dominance Test		egetation	
	0	= Total Cov	er	✓ 3 - Prevalence Inde			
Herb Stratum (Plot size:5 ft)						(Duayida a	
1. Eleocharis palustris	50	Yes	OBL	4 - Morphological Adata in Remarks or on a	•		upporting
2. Typha latifolia	5	No	OBL				امنداد
3.				Problematic Hydro			
4.				Indicators of hydric soil present, unless disturbe		, ,	y must be
5.				-	•	Hauc	
				Definitions of Vegetation			
6				Tree - Woody plants 3 in			iameter at
7				breast height (DBH), reg			
8				Sapling/shrub - Woody p			BH and
9				greater than or equal to			
10				Herb – All herbaceous (n			ardless of
11				size, and woody plants le			
12				Woody vines – All woody	vines great	ter than 3.2	28 ft in
	55	= Total Cov	er	height.			
Woody Vine Stratum (Plot size:30 ft)		_		Hydrophytic Vegetation	Present? \	∕es <u> </u>	o
1.							
2.				•			
3.				•			
				•			
4		Takal Car		•			
	0	_= Total Cov	er				
Remarks: (Include photo numbers here or on a separat	e sheet.)						
Active agricultural field							
Active agriculturur neid							

Profile Desc Depth	ription: (Describe to Matrix	o the d	epth needed to d Redox			indicato	r or confirm the a	bsence	of indicators.)
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture		Remarks
0 - 13	10YR 3/1	95	7.5YR 4/6	5	C	M	Silty Clay		-
		_							
				- —					
		_				_			
		_							
				_					
		_				_			
¹Type: C = C	oncentration, D = D	 Depleti	on, RM = Reduced	d Mat	rix, MS =	Masked	Sand Grains. ² Lo	ocation	: PL = Pore Lining, M = Matrix.
Hydric Soil	ndicators:							Indica	itors for Problematic Hydric Soils ³ :
	pipedon (A2)		Thin Dark Su	ırface	(S9) (LR	R R, MLR			cm Muck (A10) (LRR K, L, MLRA 149B) past Prairie Redox (A16) (LRR K, L, R)
Black Hi	` '		Loamy Muck	-		(LRR K,	L)		cm Mucky Peat or Peat (S3) (LRR K, L, R)
, .	en Sulfide (A4)		Loamy Gleye						ark Surface (S7) (LRR K, L)
	d Layers (A5)	(1.4	Depleted Ma					Po	olyvalue Below Surface (S8) (LRR K, L)
	d Below Dark Surfa	ce (AT				`		Th	nin Dark Surface (S9) (LRR K, L)
	ark Surface (A12)		Depleted Da)		Iro	on-Manganese Masses (F12) (LRR K, L, R)
,	lucky Mineral (S1)		Redox Depre	101225	1S (F8)			Pi	edmont Floodplain Soils (F19) (MLRA 149B)
-	ileyed Matrix (S4)								esic Spodic (TA6) (MLRA 144A, 145, 149B)
-	edox (S5)								ed Parent Material (F21)
Stripped	d Matrix (S6)								ery Shallow Dark Surface (TF12)
Dark Su	rface (S7) (LRR R, M	LRA 14	9B)						ther (Explain in Remarks)
	of hydrophytic vege	tation	and wetland hyd	rolog	y must b	e preser	nt, unless disturbe	ed or pro	oblematic.
	ayer (if observed):								
	Type:		Compaction	-		Hydric	: Soil Present?		Yes No
	Depth (inches):		13						
Remarks:									

Hydrology Photos



Vegetation Photos





Project/Site: Trelina		City/County: Syra	cuse, Onondaga	Sampling Date	te: 2019-June-28
Applicant/Owner: NextEra			State: NY	Sampling Point	: W-NWJ-39; UPL-1
Investigator(s): Nick DeJohn, N	ate Jones		Section, Township,	Range:	
Landform (hillslope, terrace, etc.)): Agricultural F	Field	Local relief (concave, conv	ex, none): Flat	Slope (%): 0-1
Subregion (LRR or MLRA): L	.RR L		Lat: 42.870443	Long: -76.979685	Datum: WGS84
Soil Map Unit Name: Claverac	k loamy fine sand, \hat{a}	2 to 6 percent slope	es	NWI class	ification:
Are climatic/hydrologic condition	s on the site typica	l for this time of ye	ar? Yes No	(If no, explain in Rem	arks.)
Are Vegetation, Soil,	or Hydrology _	significantly dis	sturbed? Are "Norm	al Circumstances" present	t? Yes <u></u> ✓ No
Are Vegetation, Soil,	or Hydrology _	naturally probl	ematic? (If needed,	explain any answers in Re	emarks.)
SUMMARY OF FINDINGS – A	Attach site map s	showing samplii	ng point locations, trai	nsects, important feat	ures, etc.
Hydrophytic Vegetation Present	•				
	_	No	la tha Camania d Anaa withi	n a Watland?	Von No (
Hydric Soil Present?		No	Is the Sampled Area withi	n a wetiand?	Yes No
Wetland Hydrology Present?	Yes _	No / _	If yes, optional Wetland S	ite ID:	
Remarks: (Explain alternative pr	ocedures here or ir	a separate report)		
TRC covertype is UPL. Wetter the	an average year				
2.					
HYDROLOGY					
Wetland Hydrology Indicators:					
Primary Indicators (minimum of	one is required; ch	eck all that apply)		Secondary Indicators (mi	nimum of two required)
Surface Water (A1)	·	Water-Stained Lea	01/AC (RQ)	Surface Soil Cracks (B	•
High Water Table (A2)		Aquatic Fauna (B1		Drainage Patterns (B1	•
Saturation (A3)		Marl Deposits (B1		Moss Trim Lines (B16))
Water Marks (B1)		Hydrogen Sulfide		Dry-Season Water Tab	ole (C2)
Sediment Deposits (B2)			neres on Living Roots (C3)	Crayfish Burrows (C8))
•				Saturation Visible on A	Aerial Imagery (C9)
Drift Deposits (B3)		Presence of Redu	ced Iron (C4)	Stunted or Stressed P	lants (D1)
Algal Mat or Crust (B4)		Recent Iron Reduc	ction in Tilled Soils (C6)	Geomorphic Position	(D2)
Iron Deposits (B5)		Thin Muck Surface		Shallow Aquitard (D3)	
Inundation Visible on Aerial		Other (Explain in F	Remarks)	Microtopographic Rel	
Sparsely Vegetated Concave	Surface (B8)			FAC-Neutral Test (D5)	_
Field Observations:					
Surface Water Present?	Yes No	<u>✓</u> Depth	(inches):	-	
Water Table Present?	Yes No	∠ Depth	(inches):	Wetland Hydrology Prese	ent? Yes No
Saturation Present?	Yes No	∠ Depth	(inches):		
(includes capillary fringe)		•		-	
Describe Recorded Data (stream	a gaugo monitoring	t wall parial photo	nrovious inspostions) if	l vailable:	
Describe Recorded Data (stream	r gauge, monitoring	weii, aeriai prioto:	s, previous irispections), ir	avallable.	
Remarks:					

<u>Tree Stratum</u> (Plot size: <u>30 ft</u>)		Dominant		Dominance Test workshe			
	% Cover	Species?	Status	Number of Dominant Sp	ecies That	0	(A)
1				Are OBL, FACW, or FAC:	Ci		
2				Total Number of Domina Across All Strata:	int species	1	(B)
3.				Percent of Dominant Spe	scies That		
4				- Are OBL, FACW, or FAC:	cies mat	0	(A/B)
5				Prevalence Index worksh	noot.		
6				- Total % Cover of		Multiply I	Dv.
7.				- OBL species	<u>. </u>	x 1 =	<u>oy.</u> 0
	0	= Total Cove	er	FACW species	0	x 2 =	0
Sapling/Shrub Stratum (Plot size:15 ft)	,	=		FAC species		_	
1.					0	x3=_	0
2				FACU species	0	x 4 =	0
3.				- UPL species	0	x 5 =	0
4.				- Column Totals	0	(A)	0 (B)
5.				Prevalence Ind	ex = B/A =		
6.				Hydrophytic Vegetation I	ndicators:		
				1- Rapid Test for Hy	drophytic V	egetation	
7		= Total Cove		2 - Dominance Test	is > 50%		
	0	_= TOTAL COVE	er e	3 - Prevalence Inde	x is ≤ 3.0^{1}		
Herb Stratum (Plot size:5 ft)	20	V	N.II	4 - Morphological A	daptations ¹	(Provide s	supporting
1. Glycine max	20	Yes	NI	- data in Remarks or on a	separate sh	ieet)	
2				- Problematic Hydro	phytic Vege	tation¹ (Ex	plain)
3				- ¹Indicators of hydric soil	and wetlan	d hydrolog	gy must be
4				present, unless disturbed	d or probler	matic	
5				Definitions of Vegetation	Strata:		
6				Tree – Woody plants 3 in	. (7.6 cm) or	more in c	liameter at
7				breast height (DBH), rega	ardless of h	eight.	
8				Sapling/shrub – Woody p	lants less tl	han 3 in. D	BH and
9.				greater than or equal to	3.28 ft (1 m) tall.	
10.				Herb – All herbaceous (n	-		ardless of
11.				size, and woody plants le			
12.				Woody vines – All woody	vines great	er than 3.	28 ft in
	20	= Total Cove	er	height.			
Woody Vine Stratum (Plot size:30 ft)		-		Hydrophytic Vegetation	Present? \	/es N	0
1.							
2.				-			
3.				-			
· -				-			
4		Tatal Carre		-			
	0	= Total Cove	er				
Remarks: (Include photo numbers here or on a separa	te sheet.)						
Active agricultural field							
•							

	cription: (Describe t	to the de	-			indicato	r or confirm the at	osence of inc	dicators.)
Depth	Matrix		Redox				- .		B
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type ¹	Loc ²	Texture		Remarks
0 - 12	10YR 4/3	100					Clay Loar	<u>m</u>	
				- —					
				_					
				_					
				_					
-				-					
							•		
1Tupou C = (Concentration D = 1		p DM = Doducod	N/a+		Maskad	Cand Crains 21	acation: DI -	Poro Lining M = Matrix
	Concentration, D = I	pepierio	ii, kivi – Kedučed	widt	1 IX, IVIS =	iviasked	Sanu Grains. 4L0		Pore Lining, M = Matrix.
Hydric Soil			D-1- 1	1	6- :-	.0) (1.55	D 141 D4 4 400'	indicators	for Problematic Hydric Soils³:
Histoso							R, MLRA 149B)		luck (A10) (LRR K, L, MLRA 149B)
	oipedon (A2)		Thin Dark Su					Coast P	Prairie Redox (A16) (LRR K, L, R)
	istic (A3) en Sulfide (A4)		Loamy Mucky Loamy Gleye			(LKK K,	L)		lucky Peat or Peat (S3) (LRR K, L, R)
	d Layers (A5)		Depleted Ma						urface (S7) (LRR K, L)
	d Below Dark Surfa	rce (A11)							ue Below Surface (S8) (LRR K, L)
	ark Surface (A12)	(, , , ,	Depleted Dar)			ark Surface (S9) (LRR K, L)
	Mucky Mineral (S1)		Redox Depre			•			anganese Masses (F12) (LRR K, L, R)
_	Gleyed Matrix (S4)				()				ont Floodplain Soils (F19) (MLRA 149B)
-	Redox (S5)								Spodic (TA6) (MLRA 144A, 145, 149B)
-	d Matrix (S6)								rent Material (F21)
	rface (S7) (LRR R, M	II DA 1/10)R)					-	nallow Dark Surface (TF12)
Dark 30	Trace (37) (ERR R, IV	ILIVA 14.	,,,,					Other (Explain in Remarks)
	of hydrophytic veg		and wetland hydr	olog	y must b	e preser	nt, unless disturbe	d or problen	natic.
Restrictive	Layer (if observed):								
	Type:		Compaction	_		Hydric	Soil Present?		Yes No
	Depth (inches):		12						
Observed s	oil compaction was	s due to	agricultural activ	ities.					

Vegetation Photos



Project/Site: Trelina	City/County: Ball:	ston Lake, Saratoga	Sampling Date: 2019-June-2		
Applicant/Owner: NextEra		State: NY	Samplin	g Point: W-NWJ-40; PEM-1	
Investigator(s): Nick DeJohn, I	Nate Jones	Section, Township,	Range:		
Landform (hillslope, terrace, etc	.): Depression	Local relief (concave, conv	/ex, none) : Concav	re Slope (%): 0-	
Subregion (LRR or MLRA):	LRR L	Lat: 42.870467	Long: -76.979	Datum: WGS	
Soil Map Unit Name: Cosad lo	oamy fine sand		NV	VI classification:	
Are climatic/hydrologic condition	ns on the site typical for this time of ye	ar? Yes No	_ ∠ (If no, explain	in Remarks.)	
Are Vegetation, Soil,			al Circumstances" բ	oresent? Yes 🟒 No	
Are Vegetation, Soil,	or Hydrology naturally prob	lematic? (If needed,	explain any answe	rs in Remarks.)	
SUMMARY OF FINDINGS -	Attach site map showing sampli	ng point locations, tra	nsects, importar	nt features, etc.	
Hydrophytic Vegetation Presen	t? Yes 🗸 No	1			
Hydric Soil Present?	Yes/_ No	Is the Sampled Area with	in a Wetland?	Yes No	
		ł			
Wetland Hydrology Present?	Yes _ ∠ No	If yes, optional Wetland S	ite ID:	<u>W-NWJ-40</u>	
Remarks: (Explain alternative p	rocedures here or in a separate report)			
TRC covertype is PEM. Wetter tl	nan average year				
אירטייט טייט					
HYDROLOGY					
Wetland Hydrology Indicators:					
Primary Indicators (minimum o	of one is required; check all that apply)		Secondary Indicate	ors (minimum of two required	
∕ Surface Water (A1)	Water-Stained Lea	aves (B9)	Surface Soil Cr		
∕ High Water Table (A2)	Aquatic Fauna (B1	3)	Drainage Patte		
∕ Saturation (A3)	Marl Deposits (B1	5)	Moss Trim Line		
Water Marks (B1)	Hydrogen Sulfide		Dry-Season Wa		
Sediment Deposits (B2)	Oxidized Rhizospl	neres on Living Roots (C3)	Crayfish Burro	ws (C8) ble on Aerial Imagery (C9)	
Drift Danasits (D2)	Processes of Podu	and Iron (CA)		9,1	
Drift Deposits (B3) Algal Mat or Crust (B4)	Presence of Redu	ced fron (C4) ction in Tilled Soils (C6)	Geomorphic Po	essed Plants (D1)	
Algai Mat of Crust (B4) Iron Deposits (B5)	Recent from Reduction		Shallow Aquita		
Inundation Visible on Aerial		: :	Microtopograp		
Sparsely Vegetated Concave	· · · · · · · · · · · · · · · · · · ·	,	✓ FAC-Neutral Te		
Field Observations:				· · ·	
Surface Water Present?	Yes _✓_ No Depth	(inches):			
Water Table Present?	·	(inches): 0	- Wetland Hydrolog	y Present? Yes No _	
Saturation Present?	·	(inches): 0	-	,	
	тез <u>-</u> то Берит	(111c11c3).	-		
(includes capillary fringe)					
Describe Recorded Data (Stream	m gauge, monitoring well, aerial photo	s, previous inspections), if	avallable:		
Remarks:					

	Absolute	Dominant	Indicator	Dominance Test worksheet:		
<u>Tree Stratum</u> (Plot size: <u>30 ft</u>)		Species?	Status	Number of Dominant Species That		
1.	70 COVC	эреско.	Julia	Are OBL, FACW, or FAC:	2	(A)
				Total Number of Dominant Species		
2.				Across All Strata:	2	(B)
3.				Percent of Dominant Species That		
4.				Are OBL, FACW, or FAC:	100	(A/B)
5.				Prevalence Index worksheet:		
6				Total % Cover of:	Multiply E	<u>Ву:</u>
7				OBL species 35	x 1 =	35
	0	= Total Cove	er	FACW species 30	x 2 =	60
Sapling/Shrub Stratum (Plot size: 15 ft)				FAC species 0	x 3 =	0
1				FACU species 0	x 4 =	0
2				- UPL species 0	x 5 =	0
3.				- Column Totals 65	(A)	95 (B)
4				Prevalence Index = B/A =	- '' -	33 (B)
5						
6				Hydrophytic Vegetation Indicators:		
7.				1- Rapid Test for Hydrophytic	vegetation	
	0	= Total Cove	er	2 - Dominance Test is >50%		
Herb Stratum (Plot size:5 ft)	'	=		3 - Prevalence Index is ≤ 3.01	al (Duandala a	
1. Phalaris arundinacea	30	Yes	FACW	4 - Morphological Adaptation data in Remarks or on a separate s		supporting
2. <i>Typha latifolia</i>	25	Yes	OBL	- Problematic Hydrophytic Veg		nlain)
3. Juncus effusus	10	No	OBL	Indicators of hydric soil and wetla		
4.				present, unless disturbed or proble	-	gy must be
5.				Definitions of Vegetation Strata:	matic	
6.				Tree – Woody plants 3 in. (7.6 cm) (or more in d	liameter at
7.				breast height (DBH), regardless of		nameter at
8.				Sapling/shrub – Woody plants less	_	BH and
9.				greater than or equal to 3.28 ft (1 r		
10				Herb – All herbaceous (non-woody		ardless of
				size, and woody plants less than 3.		,
11.				Woody vines – All woody vines grea	ater than 3.7	28 ft in
12		= Total Cove		height.		
Manda Vina Chraham (Blat sina 20 ft	65	_ TOLAT COVE	21	Hydrophytic Vegetation Present?	Yes 🗸 N	0
Woody Vine Stratum (Plot size: 30 ft)				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
1.				-		
2.				-		
3.				-		
4				-		
	0	_= Total Cove	er			
Remarks: (Include photo numbers here or on a separ	ate sheet.)					

	Matrix		Redox	· · cac					
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type ¹	Loc ²	Text	-	Remarks
0 - 9	10YR 3/1	96	10YR 5/8	4	C	<u>M</u>	Silty Clay	-	
9 - 20	10YR 4/2	85	10YR 5/8	15	C	<u>M</u>	Silty Clay	/ Loam	
		- —		_					
				_					
				_					
		_							
		- —		_					
				_					
 Type: C = 0	Concentration, D =	Depleti	ion, RM = Reduce	d Mat	rix, MS =	Masked S	and Grains. ² Lo	ocation: PL = Pore	Lining, M = Matrix.
lydric Soil	Indicators:								oblematic Hydric Soils³:
Histoso	` '		Polyvalue Be					2 cm Muck (A	10) (LRR K, L, MLRA 149B)
	oipedon (A2) stic (A3)		Thin Dark Su Loamy Mucl				149B)		Redox (A16) (LRR K, L, R)
	en Sulfide (A4)		Loamy Gley	•		(LIXIX IX, L)			Peat or Peat (S3) (LRR K, L, R)
	d Layers (A5)		Depleted Ma					Dark Surface	(S7) (LRR K, L) low Surface (S8) (LRR K, L)
	d Below Dark Surfa	ace (A1	·		` '				rface (S9) (LRR K, L)
	ark Surface (A12) Mucky Mineral (S1)		Depleted Da Redox Depr			1			ese Masses (F12) (LRR K, L, R)
	Gleyed Matrix (S4)		Redox Depi	622101	15 (F0)				odplain Soils (F19) (MLRA 149B)
-	ledox (S5)								(TA6) (MLRA 144A, 145, 149B)
-	d Matrix (S6)							Red Parent M	naterial (F21) Dark Surface (TF12)
Dark Su	rface (S7) (LRR R, N	ILRA 14	49B)					Other (Explai	
Indicators	of hydrophytic veg	etation	and wetland hyd	rolog	y must be	e present,	unless disturbe	d or problematic.	
	Layer (if observed):		,		,	1		'	
	Type:		None			Hydric S	oil Present?	Υ	′es⁄_ No
	Depth (inches):							<u>.</u> .	
Remarks:									

Hydrology Photos



Vegetation Photos



Project/Site: Trelina		City/County: Balls	ston Lake, Saratoga	Sampling Date	2019-June-28
Applicant/Owner: NextEra			State: NY	Sampling Point:	W-NWJ-40; UPL-1
Investigator(s): Nick DeJohn, N	late Jones		Section, Township,	Range:	
Landform (hillslope, terrace, etc.): Agricultural Fi	ield	Local relief (concave, conv	ex, none): Flat	Slope (%): 0-1
Subregion (LRR or MLRA): L	RR L		Lat: 42.872319	Long: -76.978682	Datum: WGS84
Soil Map Unit Name: Cosad lo	amy fine sand			NWI classif	ication:
Are climatic/hydrologic condition	is on the site typical	for this time of ye	ar? Yes No	(If no, explain in Rema	rks.)
Are Vegetation, Soil,	or Hydrology	significantly dis	sturbed? Are "Norm	al Circumstances" present?	Yes No
Are Vegetation, Soil,	or Hydrology	naturally probl	lematic? (If needed,	explain any answers in Rer	narks.)
SUMMARY OF FINDINGS – A	Attach site map s	howing sampli	ng point locations, trai	nsects, important featu	res, etc.
	•		<u> </u>	<u> </u>	
Hydrophytic Vegetation Present		No / _		, , , , , , , , , , , , , , , , , , ,	
Hydric Soil Present?	Yes	No _ _ _	Is the Sampled Area withi	n a Wetland?	Yes No⁄_
Wetland Hydrology Present?	Yes	No _ _ _	If yes, optional Wetland S	ite ID:	
Remarks: (Explain alternative pr	ocedures here or in	a separate report)		
			•		
TDC covertupe is LIDL Wetter th	an average vear				
TRC covertype is UPL. Wetter the	an average year				
HYDROLOGY					
- THE ROLOGI					
Wetland Hydrology Indicators:					
Primary Indicators (minimum of	one is required; che	ck all that apply)		Secondary Indicators (min	imum of two required)
Surface Water (A1)	,	Water-Stained Lea	aves (B9)	Surface Soil Cracks (B6)
High Water Table (A2)		Aquatic Fauna (B1		Drainage Patterns (B10))
Saturation (A3)		Marl Deposits (B1		Moss Trim Lines (B16)	
Water Marks (B1)		Hydrogen Sulfide	Odor (C1)	Dry-Season Water Tabl	e (C2)
Sediment Deposits (B2)		Oxidized Rhizosph	neres on Living Roots (C3)	Crayfish Burrows (C8)	
				Saturation Visible on A	erial Imagery (C9)
Drift Deposits (B3)		Presence of Redu	ced Iron (C4)	Stunted or Stressed Pla	ants (D1)
Algal Mat or Crust (B4)		Recent Iron Reduc	ction in Tilled Soils (C6)	Geomorphic Position (I	02)
Iron Deposits (B5)		Thin Muck Surface		Shallow Aquitard (D3)	
Inundation Visible on Aerial	· · · · · · · · · · · · · · · · · · ·	Other (Explain in I	Remarks)	Microtopographic Relie	ef (D4)
Sparsely Vegetated Concave	Surface (B8)			FAC-Neutral Test (D5)	
Field Observations:					
Surface Water Present?	Yes No	<u>/</u> Depth	(inches):		
Water Table Present?	Yes No	/ Depth	(inches):	- Wetland Hydrology Preser	nt? Yes No
Saturation Present?	Yes No		(inches):		
	res No	<u>/</u> Берит	(ITICHES).	=	
(includes capillary fringe)					
Describe Recorded Data (strean	n gauge, monitoring	well, aerial photo:	s, previous inspections), if	available:	
Remarks:					
The state of the s					

·		<u> </u>		Daminanaa Taat wanka	h		
Tree Stratum (Plot size: 30 ft)		Dominant		Dominance Test works			
	% Cover	Species?	Status	Number of Dominant S Are OBL, FACW, or FAC	•	0	(A)
1				Total Number of Domi			
2				Across All Strata:	iant species	1	(B)
3				Percent of Dominant S	nacias That		
4.				Are OBL, FACW, or FAC	'	0	(A/B)
5.				Prevalence Index work			
6				Total % Cover		Multiply	Rv:
7				OBL species	0	x 1 =	0
	0	= Total Cove	r	FACW species	0	x 2 =	0
Sapling/Shrub Stratum (Plot size: 15 ft)				FAC species	0	x3=	0
1				FACU species		-	0
2.				_ · -	0	x 4 =	
3.				UPL species	20	x 5 =	100
4.				Column Totals	20	(A)	100 (B)
5.				Prevalence Ir	ndex = B/A =	5	
6.				Hydrophytic Vegetation	n Indicators:		
7.				1- Rapid Test for I	Hydrophytic V	egetatior/	ı
7.		- Total Cause		2 - Dominance Te	st is > 50%		
		= Total Cove	r	3 - Prevalence Inc	$lex is \le 3.0^{1}$		
Herb Stratum (Plot size: <u>5 ft</u>)	20	.,	LIBI	4 - Morphological	Adaptations ¹	(Provide	supporting
1. Zea mays	20	Yes	UPL	data in Remarks or on	a separate sh	eet)	
2				Problematic Hydr	ophytic Vege	tation¹ (E	xplain)
3				¹ Indicators of hydric so	il and wetlan	d hydrolo	gy must be
4				present, unless disturb	ed or probler	matic	
5				Definitions of Vegetation	on Strata:		
6				Tree – Woody plants 3	in. (7.6 cm) or	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 t			
10.				Herb – All herbaceous	-		gardless 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
	20	= Total Cove	r	height.			
Woody Vine Stratum (Plot size:30 ft)		-		Hydrophytic Vegetatio	n Present? \	/es N	No <u> </u>
1.							
2.							
3.							
4							
	0	_= Total Cove	r				
Remarks: (Include photo numbers here or on a sep	parate sheet.)						

	cription: (Describe t	to the de	-			indicato	r or confirm the ab	sence of	f indicators.)
Depth _	Matrix		Redox				- .		D
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type ¹	Loc ²	Texture		Remarks
0 - 12	10YR 4/3	100		_			Silt Loam		
				_					
		· 		_					
				_				_	-
				-			•		
1Typo: C = C	 Concentration, D = I	Doplotio	n DM = Doducod	N/a+	riv MC -	Mackod	Sand Grains 21 o	estion: [PL = Pore Lining, M = Matrix.
		Depletio	n, Rivi – Reduced	IVIAL	11X, IVIS –	Masked	Sanu Grains. *LC		
Hydric Soil			Deli 5			.0) (1.55	D MI DA 4.405°		ors for Problematic Hydric Soils³:
Histoso							R, MLRA 149B)		n Muck (A10) (LRR K, L, MLRA 149B)
	oipedon (A2)		Thin Dark Su					Coa	st Prairie Redox (A16) (LRR K, L, R)
	stic (A3) en Sulfide (A4)		Loamy Muck			(LKK K,	L)		n Mucky Peat or Peat (S3) (LRR K, L, R)
	d Layers (A5)		Depleted Ma						k Surface (S7) (LRR K, L)
	d Below Dark Surfa	ace (A11						•	value Below Surface (S8) (LRR K, L)
	ark Surface (A12)		Depleted Dar)			n Dark Surface (S9) (LRR K, L)
	lucky Mineral (S1)		Redox Depre			•			-Manganese Masses (F12) (LRR K, L, R)
_	Gleyed Matrix (S4)				()				dmont Floodplain Soils (F19) (MLRA 149B)
-	tedox (S5)								sic Spodic (TA6) (MLRA 144A, 145, 149B)
_	d Matrix (S6)								Parent Material (F21)
	rface (S7) (LRR R, M	II DΔ 1/10)R)					-	y Shallow Dark Surface (TF12)
Dark 30	riace (37) (Litti it, iv	ILIVA 14.	, Б,					Oth	er (Explain in Remarks)
	of hydrophytic veg		and wetland hydr	olog	y must b	e preser	nt, unless disturbed	d or prob	olematic.
Restrictive	Layer (if observed):								
	Type:	(Compaction			Hydric	Soil Present?		Yes No
	Depth (inches):		12						
Remarks: Observed s	oil compaction was	s due to	agricultural activ	ities.					

Hydrology Photos



Vegetation Photos



Project/Site: Trelina	City/Co	unty: Ballston Lake, Sa	aratoga	Sampling Date: 2019-June-28			
Applicant/Owner: NextEra			State: NY	Sampling Point:	W-NWJ-41; PEM-1		
Investigator(s): Nick DeJohn, N	ate Jones	Sect	ion, Township, Ra	nge:			
Landform (hillslope, terrace, etc.)	Local relief	(concave, convex,		Slope (%): 0-1			
Subregion (LRR or MLRA): L	RR L	Lat:_	42.871391	Long: -76.978455	Datum: WGS84		
Soil Map Unit Name: Odessa	· · · · · · · · · · · · · · · · · · ·			NWI classif			
Are climatic/hydrologic condition		=		<u>′</u> (If no, explain in Rema			
Are Vegetation, Soil,	or Hydrology signi			ircumstances" present?			
Are Vegetation, Soil,	or Hydrology natu	rally problematic?	(If needed, exp	olain any answers in Rer	narks.)		
SUMMARY OF FINDINGS – A	ttach site map showing	g sampling point lo	cations, transe	cts, important featu	ires, etc.		
Hydrophytic Vegetation Present	? Yes No _						
Hydric Soil Present?	Yes No _	i	oled Area within a	Wetland?	Yes/_ No		
	Yes No				W-NWJ-41		
Wetland Hydrology Present?	· · · · · · · · · · · · · · · · · · ·		onal Wetland Site I	D.			
Remarks: (Explain alternative pr	ocedures here or in a separ	ate report)					
TRC covertype is PEM. Wetter th	an average year						
HADBOLOCA							
HYDROLOGY							
Wetland Hydrology Indicators:							
Primary Indicators (minimum of	one is required; check all th	nat apply)	<u>Se</u>	condary Indicators (min	imum of two required)		
∕ Surface Water (A1)	Water-S	tained Leaves (B9)		Surface Soil Cracks (B6	e Soil Cracks (B6)		
High Water Table (A2)		Fauna (B13)		Drainage Patterns (B10)			
✓ Saturation (A3)	· · · · · · · · · · · · · · · · · · ·	posits (B15)		Moss Trim Lines (B16)			
Water Marks (B1)	Hydrog	en Sulfide Odor (C1)		Dry-Season Water Table (C2)			
Sediment Deposits (B2)	Oxidize	d Rhizospheres on Livi	116 110013 (63)				
				Saturation Visible on A	3 7 · ·		
Drift Deposits (B3)		e of Reduced Iron (C4)		Stunted or Stressed Plants (D1)			
Algal Mat or Crust (B4)		Iron Reduction in Tilled		Geomorphic Position (•		
Iron Deposits (B5)		ick Surface (C7)		Shallow Aquitard (D3)	-		
Inundation Visible on Aerial I	· · · · · · · · · · · · · · · · · · ·	xplain in Remarks)		Microtopographic Relie			
Sparsely Vegetated Concave	Surface (B8)		<u>-</u> /	FAC-Neutral Test (D5)	_		
Field Observations:	V N	5 d ()					
Surface Water Present?	Yes No	Depth (inches):	2				
Water Table Present?	Yes No	Depth (inches):	0 We	etland Hydrology Preser	nt? Yes No		
Saturation Present?	Yes No	Depth (inches):	0				
(includes capillary fringe)							
Describe Recorded Data (stream	n gauge, monitoring well, ae	rial photos, previous i	nspections), if avai	lable:			
,	00., 0 . ,	, , , , , , , , , , , , , , , , , , , ,	.,				
Remarks:							
Remarks.							

Tree Stratum (Plot size:30 ft)		Dominant Species?	Indicator Status	Dominance Test worksh Number of Dominant S Are OBL, FACW, or FAC:		3	(A)		
1. 2.				Total Number of Domin	ant Species	3	(B)		
3.				Across All Strata: Percent of Dominant Species That		100			
4 5.	·			Are OBL, FACW, or FAC:	Are OBL, FACW, or FAC:		(A/B)		
6.			Prevalence Index works	Prevalence Index worksheet:					
·			Total % Cover o	Total % Cover of:		Multiply By:			
7		Takal Car		— OBL species	20	x 1 =	20		
	0	_= Total Cov	er	FACW species	0	x 2 =	0		
Sapling/Shrub Stratum (Plot size: 15 ft)				FAC species	0	x 3 =	0		
1.				— FACU species	0	x 4 =	0		
2				— UPL species	0	x 5 =	0		
3				— Column Totals	20	(A)	20 (B)		
4				Prevalence Inc	dex = B/A =	1			
5									
6				─ Hydrophytic Vegetation─ ✓ 1- Rapid Test for H		/ogotation			
7						regetation			
	0	= Total Cov	er		2 - Dominance Test is >50% 3 - Prevalence Index is ≤ 3.0¹				
Herb Stratum (Plot size:5 ft)		_				1 (D			
1. Eleocharis palustris	10	Yes	OBL	4 - Morphological			upporting		
2. <i>Typha latifolia</i>	5	Yes	OBL	 data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain) ¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic 					
3. Ranunculus sceleratus	5	Yes	OBL						
4.									
5.				Definitions of Vegetation Strata:					
6.			_						
7.			Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.						
-			_						
8.				Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.					
9.						ardlace of			
10			Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.						
11				Woody vines – All woody vines greater than 3.28		Q ft in			
12				height.	y viries great	ter triair 5.2	.0 10 111		
	20	_= Total Cov	er			, , , , , ,			
Woody Vine Stratum (Plot size: 30 ft)				Hydrophytic Vegetation	Present?	res No			
1									
2.									
3.	. ,								
4.				_					
	0	= Total Cov	er	_					
		_							
Remarks: (Include photo numbers here or on a separate or	e sneet.)								

Profile Desc	ription: (Describe to	o the d	epth needed to d			indicato	r or confirm the a	bsence of indicate	ors.)
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Text	ure	Remarks
0 - 11	10YR 3/1	95	10YR 6/8	5 - —		M	Silty Cla	-	
				- — - — - —					
		_		- — - —					
1T: ::: C = C			n DM - Dadwas				Canal Cuaina 31	a antinus DL — Daw	a Limina M = Makeiu
Type: C = C Hydric Soil I	oncentration, D = D	epietio	on, KIVI = Keduced	ıwat	rıx, MS =	iviasked	Sang Grains. ² L		e Lining, M = Matrix. Problematic Hydric Soils ³ :
Histosol Histic Ep Black Hi Hydroge Stratifiee Depletee Thick Da Sandy N Sandy R Stripped Dark Su	(A1) ipedon (A2) stic (A3) n Sulfide (A4) d Layers (A5) d Below Dark Surfac rk Surface (A12) ucky Mineral (S1) leyed Matrix (S4) edox (S5) l Matrix (S6) rface (S7) (LRR R, Mi	LRA 14	Thin Dark Su Loamy Muck Loamy Gleye Depleted Ma) _ Redox Dark : Depleted Da Redox Depre	rface y Mir d Ma trix (I Surfa rk Su essior	(S9) (LRF neral (F1) trix (F2) F3) ce (F6) rface (F7) ns (F8)	R R, MLR (LRR K, I	L)	2 cm Muck Coast Prairi 5 cm Mucky Dark Surfac Polyvalue B Thin Dark S Iron-Manga Piedmont F Mesic Spod Red Parent Very Shallov Other (Expla	(A10) (LRR K, L, MLRA 149B) le Redox (A16) (LRR K, L, R) le Peat or Peat (S3) (LRR K, L, R) le (S7) (LRR K, L) lelow Surface (S8) (LRR K, L) urface (S9) (LRR K, L) lenese Masses (F12) (LRR K, L, R) loodplain Soils (F19) (MLRA 149B) lic (TA6) (MLRA 144A, 145, 149B) Material (F21) w Dark Surface (TF12) ain in Remarks)
	of hydrophytic vege	etation	and wetland hyd	rolog	y must b	e preser	nt, unless disturbe	ed or problematic	·
	ayer (if observed): Type:		Clay			Hydric	Soil Present?		Yes No
	Depth (inches):		11	-		liyunc	John Tesent:		163 <u>7</u> 140
Remarks: Observed s	oil compaction was	due to	agricultural activ	rities.					

Hydrology Photos



Vegetation Photos





Project/Site: Trelina	City/County:_ Ball	ston Lake, Saratoga		Sampling Date: 2019-June-28		
Applicant/Owner: NextEra		State: NY	S	Sampling Point: W-NWJ-41; PFO-1		
Investigator(s): Nick DeJohn, Na	te Jones	Section, Township,	Range:			
Landform (hillslope, terrace, etc.):	Depression	Local relief (concave, conv	/ex, none):(Concave	Slope (%): 0-1	
Subregion (LRR or MLRA): LR	R L	Lat: 42.871523	Long:	76.979108	Datum: WGS84	
Soil Map Unit Name: Odessa sil	t loam, 0 to 2 percent slopes			NWI classification	:	
Are climatic/hydrologic conditions	on the site typical for this time of ye	ear? Yes No	_ ∠ (If no, e	explain in Remarks.)		
Are Vegetation, Soil,	or Hydrology significantly di	sturbed? Are "Norm	al Circumsta	nces" present?	′es _ _∕ _ No	
Are Vegetation, Soil,	or Hydrology naturally prob	lematic? (If needed,	explain any	answers in Remarks.)		
SUMMARY OF FINDINGS – At	tach site map showing sampli	ng point locations, trai	nsects, imp	oortant features, e	tc.	
Hydrophytic Vegetation Present?	Yes _ ✓ _ No					
Hydric Soil Present?	Yes _ ✓ _ No	Is the Sampled Area withi	in a Wetland	? Yes	No	
_		i				
Wetland Hydrology Present?	Yes _ ✓ No	If yes, optional Wetland S	ite ib.	VV-IV	NJ-41	
Remarks: (Explain alternative pro-	cedures here or in a separate report	t)				
TRC covertype is PFO. Wetter than	າ average year					
HYDROLOGY						
Wetland Hydrology Indicators:			Casamalami		-£ 4	
	one is required; check all that apply)		-	Indicators (minimum	or two required)	
Surface Water (A1)	<u>✓</u> Water-Stained Lea			Soil Cracks (B6) e Patterns (B10)		
✓ High Water Table (A2)	Aquatic Fauna (B1		Moss Tr			
✓ Saturation (A3)	Marl Deposits (B1 Hydrogen Sulfide		Dry-Season Water Table (C2)			
Water Marks (B1) Sediment Deposits (B2)	• •	heres on Living Roots (C3)	Crayfish Burrows (C8)			
Sediment Deposits (B2)	Oxidized Kilizospi	neres on Living Roots (CS)		on Visible on Aerial In	nagery (C9)	
Drift Deposits (B3)	Presence of Redu	ced Iron (C4)	Stunted	or Stressed Plants (D	1)	
Algal Mat or Crust (B4)		ction in Tilled Soils (C6)		phic Position (D2)	•	
Iron Deposits (B5)	Thin Muck Surface	e (C7)	Shallow	Aquitard (D3)		
Inundation Visible on Aerial In	nagery (B7) Other (Explain in l	Remarks)	Microto	pographic Relief (D4)		
Sparsely Vegetated Concave S	urface (B8)		∕ FAC-Net	utral Test (D5)		
Field Observations:						
Surface Water Present?	Yes No <u>_</u> Depth	(inches):	_			
Water Table Present?	Yes 🗸 No Depth	(inches):	Wetland Hy	drology Present?	Yes No	
Saturation Present?	Yes 🟒 No Depth	(inches): 0				
(includes capillary fringe)		· · · · · · · · · · · · · · · · · · ·	-			
· , , , , , , , , , , , , , , , , , , ,	gauge, monitoring well, aerial photo	s nrevious inspections) if	available:			
Bescribe Recorded Bata (stream)	gauge, monitoring well, derial photo	s, previous inspections,, in	avanabic.			
Para adam						
Remarks:						

·	Absolute	Dominant	Indicator	Dominance Test worksheet:		
Tree Stratum (Plot size: 30 ft)		Species?	Status	Number of Dominant Species That	_	
1. Fraxinus pennsylvanica	25	Yes	FACW	Are OBL, FACW, or FAC:	6	(A)
2. Acer rubrum	15	Yes	FAC	Total Number of Dominant Species	7	(D)
3. Populus tremuloides	10	Yes	FACU	Across All Strata:		(B)
4.		103	17100	Percent of Dominant Species That	85.7	(A/B)
5.	. ——			Are OBL, FACW, or FAC:		(/// b)
6.				Prevalence Index worksheet:		
7.				Total % Cover of:	Multiply I	<u>Ву:</u>
/·		= Total Cov		OBL species 20	x 1 =	20
Couling/Church Church use (Distriction 45.6)	50	_ 10tal Cov	er	FACW species 33	x 2 =	66
Sapling/Shrub Stratum (Plot size: 15 ft)	4.5	V	EA.C	FAC species 40	x 3 =	120
1. Rhamnus cathartica	15	Yes	FAC	FACU species 10	x 4 =	40
2.				UPL species 0	x 5 =	0
3				Column Totals 103	(A)	246 (B)
4				Prevalence Index = B/A =	2.4	
5				Hydrophytic Vegetation Indicators:		
6				1- Rapid Test for Hydrophytic	/egetation	
7				✓ 2 - Dominance Test is >50%	regetation	
	15	= Total Cov	er	\checkmark 3 - Prevalence Index is $\le 3.0^{\circ}$		
Herb Stratum (Plot size:5 ft)				4 - Morphological Adaptations	1 (Provide s	supporting
1. <i>Carex stipata</i>	20	Yes	OBL	data in Remarks or on a separate sh		supporting
2. Toxicodendron radicans	10	Yes	FAC	Problematic Hydrophytic Vege		nlain)
3. Fraxinus pennsylvanica	8	Yes	FACW	¹Indicators of hydric soil and wetlan		-
4.				present, unless disturbed or proble		sy mast se
5.				Definitions of Vegetation Strata:		
6.				Tree – Woody plants 3 in. (7.6 cm) o	r more in c	liameter at
7.				breast height (DBH), regardless of h		alarricter at
8.				Sapling/shrub – Woody plants less t	_	BH and
9.	· ——			greater than or equal to 3.28 ft (1 m		
40				Herb – All herbaceous (non-woody)		ardless of
	· ——			size, and woody plants less than 3.2	8 ft tall.	,
11.				Woody vines – All woody vines grea	ter than 3.	28 ft in
12	20	- Total Cov	- · ·	height.		
March March Charles (District)	38	= Total Cov	er	Hydrophytic Vegetation Present?	Yes 🗸 N	0
Woody Vine Stratum (Plot size: 30 ft)				· · · · · · · · · · · · · · · · · · ·		
1.						
2.						
3						
4						
	0	= Total Cov	er			
Remarks: (Include photo numbers here or on a separa	e sheet.)					

Depth		-	to the c	=			indicato	r or confirm the	absence of indicators	s.)
0 - 7	-		04				1002	To	vturo	Domarks
7-16 10YR 5/1 90 7.5YR 4/6 10 C M Sandy Clay Loam *Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. *Location: PL = Pore Lining, M = Matrix. Hydric Soil Indicators: Histosol (A1)				Color (ITIOISE)	-90	туре.	LUC-			Remarks
*Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. *Location: PL = Pore Lining, M = Matrix. Hydric Soil Indicators:		-		7 EVD 4/6	10					
Hydric Soil Indicators: — 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 (F3) — Depleted Below Dark Surface (A11) — Redox Dark Surface (F7) — Thin Dark Surface (F7) — Thin Dark Surface (A12) — Sandy Mucky Mineral (S1) — Sandy Gleyed Matrix (S4) — Sandy Gleyed Matrix (S5) — Sandy Redox (S5) — Sandy Redox (S5) — Dark Surface (S7) (LRR K, L) — Polyvalue Below 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) — Mesic Spodic (TA6) (MLRA 144A, 145, 149B) — Dark Surface (S7) (LRR R, MLRA 149B) — Mesic Spodic (TA6) (MLRA 144B) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): — Type: None — None — Hydric Soil Present? Hydric Soil Present? Yes _ No Polyvalue Relox (A10) (LRR K, L, MLRA 149B) — Coast Prairie Redox (A10) (LRR K, L, R) — Coast Prairie Redox (A16) (LRR K, L, R) — Som Mucky Peat or Peat (S3) (LRR K, L, R) — Dark Surface (S7) (LRR K, L) — Polyvalue Below Surface (S9) (LRR K, L) — Thin Dark Surface (S9) (LRR K, L) — Thin Dark Surface (S9) (LRR K, L) — Thin Dark Surface (S9) (LRR K, L) — Thin Dark Surface (S9) (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) — Mesic Spodic (TA6) (MLRA 144A, 145, 149B) — Mesic Spodic (TA6) (MLRA 144A, 145, 149B) — Mesic Spodic (TA6) (MLRA 144A, 145, 149B) — Mesic Spodic (TA6) (MLRA 144A, 145, 149B) — Mesic Spodic (TA6) (MLRA 144A, 145, 149B) — Mesic Spodic (TA6) (MLRA 144A, 145, 149B) — Mesic Spodic (TA6) (MLRA 144A, 145, 149B) — Mesic Spodic (TA6) (MLRA 144A, 145, 149B) — Mesic Spodic (TA6) (MLRA 144A, 145, 149B) — Mesic Spodic (TA6) (MLRA 144A, 145, 149B) —	7 - 10	1011 3/1	90	7.51K 4/0	10		IVI	Sandy	Clay Loaili	
Hydric Soil Indicators: — 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 (F3) — Depleted Below Dark Surface (A11) — Redox Dark Surface (F7) — Thin Dark Surface (F7) — Thin Dark Surface (A12) — Sandy Mucky Mineral (S1) — Sandy Gleyed Matrix (S4) — Sandy Gleyed Matrix (S5) — Sandy Redox (S5) — Sandy Redox (S5) — Dark Surface (S7) (LRR K, L) — Polyvalue Below 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) — Mesic Spodic (TA6) (MLRA 144A, 145, 149B) — Dark Surface (S7) (LRR R, MLRA 149B) — Mesic Spodic (TA6) (MLRA 144B) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): — Type: None — None — Hydric Soil Present? Hydric Soil Present? Yes _ No Polyvalue Relox (A10) (LRR K, L, MLRA 149B) — Coast Prairie Redox (A10) (LRR K, L, R) — Coast Prairie Redox (A16) (LRR K, L, R) — Som Mucky Peat or Peat (S3) (LRR K, L, R) — Dark Surface (S7) (LRR K, L) — Polyvalue Below Surface (S9) (LRR K, L) — Thin Dark Surface (S9) (LRR K, L) — Thin Dark Surface (S9) (LRR K, L) — Thin Dark Surface (S9) (LRR K, L) — Thin Dark Surface (S9) (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) — Mesic Spodic (TA6) (MLRA 144A, 145, 149B) — Mesic Spodic (TA6) (MLRA 144A, 145, 149B) — Mesic Spodic (TA6) (MLRA 144A, 145, 149B) — Mesic Spodic (TA6) (MLRA 144A, 145, 149B) — Mesic Spodic (TA6) (MLRA 144A, 145, 149B) — Mesic Spodic (TA6) (MLRA 144A, 145, 149B) — Mesic Spodic (TA6) (MLRA 144A, 145, 149B) — Mesic Spodic (TA6) (MLRA 144A, 145, 149B) — Mesic Spodic (TA6) (MLRA 144A, 145, 149B) — Mesic Spodic (TA6) (MLRA 144A, 145, 149B) —			· —							
Hydric Soil Indicators: — 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 (F3) — Depleted Below Dark Surface (A11) — Redox Dark Surface (F6) — Thin Dark Surface (F7) — Thin Dark Surface (A12) — Sandy Mucky Mineral (S1) — Sandy Gleyed Matrix (S4) — Sandy Gleyed Matrix (S5) — Sandy Redox (S5) — Sandy Redox (S5) — Stripped Matrix (S6) — Dark Surface (S7) (LRR K, L, R) — Polyvalue Below Surface (S9) (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) — Mesic Spodic (TA6) (MLRA 144A, 145, 149B) — Mesic Spodic (TA6) (MLRA 144A, 145, 149B) — Mesic Spodic (TA6) (MLRA 144B) 3Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): — Type: None — None — Hydric Soil Present? Hydric Soil Present? Yes _ No Polyvalue Below Car(A10) (LRR K, L, R) — Dark Surface (S7) (LRR K, L) — Thin Dark Surface (S9) (LRR K, L) — Thin Dark Surface (S9) (LRR K, L) — Thin Dark 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) — Thin Dark Surface (S9) (LRR K, L) — Thin Dark Surface (S9) (LRR K, L) — Thin Dark Surface (S9) (LRR K, L) — Thin Dark Surface (S9) (LRR K, L) — Thin Dark Surface (S9) (LRR K, L) — Thin Dark Surface (S9) (LRR K, L) — Thin Dark Surface (S9) (LRR K, L) — Thin Dark Surface (S9) (LRR K, L) — Thin Dark Surface (S9) (LRR K, L) — Thin Dark Surface (S9) (LRR K, L) — Thin Dark Surface (S9) (LRR K, L) — Thin Dark Surface (S9) (LRR K, L) — Thin Dark Surface (S9) (LRR K, L) — Thin Dark Surface (S9) (LRR K, L) — Thin Dark Surface (S9) (LRR K, L) — Thin Dark Surface (S9) (LRR K, L) — Thin Dark Surface (S9) (LRR K, L) — Thin Dark Surface (S9) (LRR			- —		_					
Hydric Soil Indicators: — 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 (F3) — Depleted Below Dark Surface (A11) — Redox Dark Surface (F6) — Thin Dark Surface (F7) — Thin Dark Surface (A12) — Sandy Mucky Mineral (S1) — Sandy Gleyed Matrix (S4) — Sandy Gleyed Matrix (S5) — Sandy Redox (S5) — Sandy Redox (S5) — Stripped Matrix (S6) — Dark Surface (S7) (LRR K, L, R) — Polyvalue Below Surface (S9) (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) — Mesic Spodic (TA6) (MLRA 144A, 145, 149B) — Mesic Spodic (TA6) (MLRA 144A, 145, 149B) — Mesic Spodic (TA6) (MLRA 144B) 3Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): — Type: None — None — Hydric Soil Present? Hydric Soil Present? Yes _ No Polyvalue Below Car(A10) (LRR K, L, R) — Dark Surface (S7) (LRR K, L) — Thin Dark Surface (S9) (LRR K, L) — Thin Dark Surface (S9) (LRR K, L) — Thin Dark 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) — Thin Dark Surface (S9) (LRR K, L) — Thin Dark Surface (S9) (LRR K, L) — Thin Dark Surface (S9) (LRR K, L) — Thin Dark Surface (S9) (LRR K, L) — Thin Dark Surface (S9) (LRR K, L) — Thin Dark Surface (S9) (LRR K, L) — Thin Dark Surface (S9) (LRR K, L) — Thin Dark Surface (S9) (LRR K, L) — Thin Dark Surface (S9) (LRR K, L) — Thin Dark Surface (S9) (LRR K, L) — Thin Dark Surface (S9) (LRR K, L) — Thin Dark Surface (S9) (LRR K, L) — Thin Dark Surface (S9) (LRR K, L) — Thin Dark Surface (S9) (LRR K, L) — Thin Dark Surface (S9) (LRR K, L) — Thin Dark Surface (S9) (LRR K, L) — Thin Dark Surface (S9) (LRR K, L) — Thin Dark Surface (S9) (LRR					_					
Hydric Soil Indicators: — 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 (F3) — Depleted Below Dark Surface (A11) — Redox Dark Surface (F6) — Thin Dark Surface (F7) — Thin Dark Surface (A12) — Sandy Mucky Mineral (S1) — Sandy Gleyed Matrix (S4) — Sandy Gleyed Matrix (S5) — Sandy Redox (S5) — Sandy Redox (S5) — Stripped Matrix (S6) — Dark Surface (S7) (LRR K, L, R) — Polyvalue Below Surface (S9) (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) — Mesic Spodic (TA6) (MLRA 144A, 145, 149B) — Mesic Spodic (TA6) (MLRA 144A, 145, 149B) — Mesic Spodic (TA6) (MLRA 144B) 3Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): — Type: None — None — Hydric Soil Present? Hydric Soil Present? Yes _ No Polyvalue Below Car(A10) (LRR K, L, R) — Dark Surface (S7) (LRR K, L) — Thin Dark Surface (S9) (LRR K, L) — Thin Dark Surface (S9) (LRR K, L) — Thin Dark 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) — Thin Dark Surface (S9) (LRR K, L) — Thin Dark Surface (S9) (LRR K, L) — Thin Dark Surface (S9) (LRR K, L) — Thin Dark Surface (S9) (LRR K, L) — Thin Dark Surface (S9) (LRR K, L) — Thin Dark Surface (S9) (LRR K, L) — Thin Dark Surface (S9) (LRR K, L) — Thin Dark Surface (S9) (LRR K, L) — Thin Dark Surface (S9) (LRR K, L) — Thin Dark Surface (S9) (LRR K, L) — Thin Dark Surface (S9) (LRR K, L) — Thin Dark Surface (S9) (LRR K, L) — Thin Dark Surface (S9) (LRR K, L) — Thin Dark Surface (S9) (LRR K, L) — Thin Dark Surface (S9) (LRR K, L) — Thin Dark Surface (S9) (LRR K, L) — Thin Dark Surface (S9) (LRR K, L) — Thin Dark Surface (S9) (LRR										
Hydric Soil Indicators: — 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 (F3) — Depleted Below Dark Surface (A11) — Redox Dark Surface (F7) — Thin Dark Surface (F7) — Thin Dark Surface (A12) — Sandy Mucky Mineral (S1) — Sandy Gleyed Matrix (S4) — Sandy Gleyed Matrix (S5) — Sandy Redox (S5) — Sandy Redox (S5) — Dark Surface (S7) (LRR K, L) — Polyvalue Below 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) — Mesic Spodic (TA6) (MLRA 144A, 145, 149B) — Dark Surface (S7) (LRR R, MLRA 149B) — Mesic Spodic (TA6) (MLRA 144B) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): — Type: None — None — Hydric Soil Present? Hydric Soil Present? Yes _ No Polyvalue Relox (A10) (LRR K, L, MLRA 149B) — Coast Prairie Redox (A10) (LRR K, L, R) — Coast Prairie Redox (A16) (LRR K, L, R) — Som Mucky Peat or Peat (S3) (LRR K, L, R) — Dark Surface (S7) (LRR K, L) — Polyvalue Below Surface (S9) (LRR K, L) — Thin Dark Surface (S9) (LRR K, L) — Thin Dark Surface (S9) (LRR K, L) — Thin Dark Surface (S9) (LRR K, L) — Thin Dark Surface (S9) (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) — Mesic Spodic (TA6) (MLRA 144A, 145, 149B) — Mesic Spodic (TA6) (MLRA 144A, 145, 149B) — Mesic Spodic (TA6) (MLRA 144A, 145, 149B) — Mesic Spodic (TA6) (MLRA 144A, 145, 149B) — Mesic Spodic (TA6) (MLRA 144A, 145, 149B) — Mesic Spodic (TA6) (MLRA 144A, 145, 149B) — Mesic Spodic (TA6) (MLRA 144A, 145, 149B) — Mesic Spodic (TA6) (MLRA 144A, 145, 149B) — Mesic Spodic (TA6) (MLRA 144A, 145, 149B) — Mesic Spodic (TA6) (MLRA 144A, 145, 149B) —			· —							
Hydric Soil Indicators: — 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 (F3) — Depleted Below Dark Surface (A11) — Redox Dark Surface (F7) — Thin Dark Surface (F7) — Thin Dark Surface (A12) — Sandy Mucky Mineral (S1) — Sandy Gleyed Matrix (S4) — Sandy Gleyed Matrix (S5) — Sandy Redox (S5) — Sandy Redox (S5) — Dark Surface (S7) (LRR K, L) — Polyvalue Below 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) — Mesic Spodic (TA6) (MLRA 144A, 145, 149B) — Dark Surface (S7) (LRR R, MLRA 149B) — Mesic Spodic (TA6) (MLRA 144B) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): — Type: None — None — Hydric Soil Present? Hydric Soil Present? Yes _ No Polyvalue Relox (A10) (LRR K, L, MLRA 149B) — Coast Prairie Redox (A10) (LRR K, L, R) — Coast Prairie Redox (A16) (LRR K, L, R) — Som Mucky Peat or Peat (S3) (LRR K, L, R) — Dark Surface (S7) (LRR K, L) — Polyvalue Below Surface (S9) (LRR K, L) — Thin Dark Surface (S9) (LRR K, L) — Thin Dark Surface (S9) (LRR K, L) — Thin Dark Surface (S9) (LRR K, L) — Thin Dark Surface (S9) (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) — Mesic Spodic (TA6) (MLRA 144A, 145, 149B) — Mesic Spodic (TA6) (MLRA 144A, 145, 149B) — Mesic Spodic (TA6) (MLRA 144A, 145, 149B) — Mesic Spodic (TA6) (MLRA 144A, 145, 149B) — Mesic Spodic (TA6) (MLRA 144A, 145, 149B) — Mesic Spodic (TA6) (MLRA 144A, 145, 149B) — Mesic Spodic (TA6) (MLRA 144A, 145, 149B) — Mesic Spodic (TA6) (MLRA 144A, 145, 149B) — Mesic Spodic (TA6) (MLRA 144A, 145, 149B) — Mesic Spodic (TA6) (MLRA 144A, 145, 149B) —			· —							
Hydric Soil Indicators: — 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 (F3) — Depleted Below Dark Surface (A11) — Redox Dark Surface (F7) — Thin Dark Surface (F7) — Thin Dark Surface (A12) — Sandy Mucky Mineral (S1) — Sandy Gleyed Matrix (S4) — Sandy Gleyed Matrix (S5) — Sandy Redox (S5) — Sandy Redox (S5) — Dark Surface (S7) (LRR K, L) — Polyvalue Below 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) — Mesic Spodic (TA6) (MLRA 144A, 145, 149B) — Dark Surface (S7) (LRR R, MLRA 149B) — Mesic Spodic (TA6) (MLRA 144B) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): — Type: None — None — Hydric Soil Present? Hydric Soil Present? Yes _ No Polyvalue Relox (A10) (LRR K, L, MLRA 149B) — Coast Prairie Redox (A10) (LRR K, L, R) — Coast Prairie Redox (A16) (LRR K, L, R) — Som Mucky Peat or Peat (S3) (LRR K, L, R) — Dark Surface (S7) (LRR K, L) — Polyvalue Below Surface (S9) (LRR K, L) — Thin Dark Surface (S9) (LRR K, L) — Thin Dark Surface (S9) (LRR K, L) — Thin Dark Surface (S9) (LRR K, L) — Thin Dark Surface (S9) (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) — Mesic Spodic (TA6) (MLRA 144A, 145, 149B) — Mesic Spodic (TA6) (MLRA 144A, 145, 149B) — Mesic Spodic (TA6) (MLRA 144A, 145, 149B) — Mesic Spodic (TA6) (MLRA 144A, 145, 149B) — Mesic Spodic (TA6) (MLRA 144A, 145, 149B) — Mesic Spodic (TA6) (MLRA 144A, 145, 149B) — Mesic Spodic (TA6) (MLRA 144A, 145, 149B) — Mesic Spodic (TA6) (MLRA 144A, 145, 149B) — Mesic Spodic (TA6) (MLRA 144A, 145, 149B) — Mesic Spodic (TA6) (MLRA 144A, 145, 149B) —										
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Histosol (A1) Polyvalue Below Surface (S8) (LRR R, MLRA 149B) 2 cm Muck (A10) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Since (S9) (LRR R, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Since (S9) (LRR K, L) Since (S7) (Depleti	on, RM = Reduced	Matı	ix, MS =	Masked	Sand Grains. ²		
Histic Epipedon (A2) Thin Dark Surface (S9) (LRR R, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) (LRR K, L) 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 K, L) 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) Piedmont Flooberation. Restrictive Layer (if observed): Type: Depth (inches):	-								Indicators for Pro	blematic Hydric Soils³:
Black Histic (A3)		` '								
Hydrogen Sulfide (A4)										
Stratified Layers (A5)				•			(LKK K, I	L)	-	
✓ 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) Dark Surface (S7) (LRR R, MLRA 149B) 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) Polyvalue Below Surface (S9) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Ton-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Mesic Spodic (TA6) (MLRA 144B) Other (Explain in Remarks) Pother (Explain in Remarks) Plood (TA6) (MLRA 144B) Hydric Soil Present? Yes ✓ No										
Thick Dark Surface (A12) Depleted Dark Surface (F7) Iron-Manganese Masses (F12) (LRR K, L, R) Sandy Mucky Mineral (S1) Redox Depressions (F8) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Gleyed Matrix (S4) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) **Inin 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) **Inin Dark Surface (S9) (LRR K, L) Piedmont Floodplain Soils (F19) (MLRA 149B) Other (F21) Other (Explain in Remarks) **Inin Dark Surface (S9) (LRR K, L) Piedmont Floodplain Soils (F19) (MLRA 149B) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Other (Explain in Remarks) **Inin Dark Surface (S9) (LRR K, L) Head of the surface (S9) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L) Piedmont Floodplain Soils (F19) (MLRA 149B) Mesic Spodic (TA6) (MLRA 149B) Depth (Inches): Hydric Soil Present? Yes✓ No		, , ,	ace (A1	•						
— Sandy Gleyed Matrix (S4) — Sandy Redox (S5) — Stripped Matrix (S6) — Dark Surface (S7) (LRR R, MLRA 149B) 3Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: None Depth (inches): Piedmont Floodplain Soils (F19) (MLRA 149B) — Piedmont Floodplain Soils (F19) (MLRA 149B) — 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) 3Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Hydric Soil Present? Yes ✓ No — Piedmont Floodplain Soils (F19) (MLRA 149B)	Thick D	ark Surface (A12)	·	Depleted Da	rk Sui	face (F7))			
Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) 3Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Depth (inches): Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Cyery Shallow Dark Surface (TF12) Other (Explain in Remarks) Present? Yes ✓ No	Sandy N	lucky Mineral (S1)		Redox Depre	ession	ıs (F8)				
Sandy Redox (55)	Sandy C	Gleyed Matrix (S4)								
Stripped Matrix (S6)	Sandy F	Redox (S5)							·	
Dark Surface (S7) (LRR R, MLRA 149B) 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 Depth (inches):	Strippe	d Matrix (S6)								
Indicators 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):	Dark Su	rface (S7) (LRR R, N	MLRA 14	19B)						
Restrictive Layer (if observed): Type: Depth (inches): None	21 12 4	61 1 1								. In Remarks)
Type: None Hydric Soil Present? Yes No Depth (inches):				and wetland hyd	rology	/ must b	e preser	it, unless disturb	ped or problematic.	
Depth (inches):		=	:	Niere			I Is salada	C-11 D		Voc. (No.
				None			Hyaric	Soil Present?		Yes No
Remarks:	-	Depth (inches):								
	Remarks:									

Hydrology Photos



Vegetation Photos





Project/Site: Trelina	City/County:_ Ball:	ston Lake, Saratoga		Sampling Date: 2019-June-28		
Applicant/Owner: NextEra		State: NY		Sampling Point: W-NWJ-41; UPL-1		
Investigator(s): Nick DeJohn, Na	ite Jones	Section, Township,	Range:			
Landform (hillslope, terrace, etc.):	Agricultural Field	Local relief (concave, conv	ex, none):_	Flat	Slope (%): 0-1	
Subregion (LRR or MLRA): LR	RR L	Lat: 42.871039	-76.979206	Datum: WGS84		
Soil Map Unit Name: Odessa si	t loam, 0 to 2 percent slopes			NWI classification	n:	
Are climatic/hydrologic conditions	on the site typical for this time of ye	ar? Yes No	_ ∠ (If no,	explain in Remarks.)		
Are Vegetation, Soil,	or Hydrology significantly di	sturbed? Are "Norma	al Circumst	ances" present?	Yes No	
Are Vegetation, Soil,	or Hydrology naturally prob	lematic? (If needed,	explain an	y answers in Remarks.)	
SUMMARY OF FINDINGS – At	ttach site map showing sampli	ng point locations, trar	nsects, im	portant features,	etc.	
Hydrophytic Vegetation Present?	Yes No _ ✓					
Hydric Soil Present?	Yes No _ _ _	Is the Sampled Area withi	n a Wetlan	d? Yes	i No _∠	
_	Yes No	<u>'</u>				
Wetland Hydrology Present?		If yes, optional Wetland Si	ite ib.			
Remarks: (Explain alternative pro	cedures here or in a separate report)				
TDC assessment in LIDI. December in the						
TRC covertype is UPL. Recent rain						
HYDROLOGY						
Wetland Hydrology Indicators:						
	one is required; check all that apply)		Secondan	/ Indicators (minimum	of two required)	
		(DO)	•	e Soil Cracks (B6)	or two required,	
Surface Water (A1) High Water Table (A2)	Water-Stained Lea Aquatic Fauna (B1			ge Patterns (B10)		
Saturation (A3)	Aquatic radiia (B1		Moss 1			
Water Marks (B1)	Hydrogen Sulfide		Dry-Se	ason Water Table (C2)		
Sediment Deposits (B2)		neres on Living Roots (C3)	Crayfis	sh Burrows (C8)		
		G	Satura	tion Visible on Aerial I	magery (C9)	
Drift Deposits (B3)	Presence of Redu			d or Stressed Plants ([01)	
Algal Mat or Crust (B4)		ction in Tilled Soils (C6)		orphic Position (D2)		
Iron Deposits (B5)	Thin Muck Surface			w Aquitard (D3)		
Inundation Visible on Aerial In	· · · · · · · · · · · · · · · · · · ·	Remarks)		opographic Relief (D4)		
Sparsely Vegetated Concave S	итасе (В8)		FAC-N	eutral Test (D5)		
Field Observations:	Von No (Dombh	(i.e. ele e e).				
Surface Water Present?		(inches):	-[
Water Table Present?	•	(inches):	Wetland F	lydrology Present?	Yes No ∠	
Saturation Present?	Yes No 🟒 Depth	(inches):	_			
(includes capillary fringe)						
Describe Recorded Data (stream	gauge, monitoring well, aerial photo	s, previous inspections), if a	available:			
Remarks:						

Tree Stratum (Plot size:30 ft)	Absolute	Dominant	Indicator	Dominance Test works	heet:		
1.	% Cover	Species?	Status	Number of Dominant S Are OBL, FACW, or FAC	•	0	(A)
				Total Number of Domi	nant Species	1	(D)
				Across All Strata:		'	(B)
4				Percent of Dominant S	pecies That	0	(A/B)
				Are OBL, FACW, or FAC	:		(, (,)
				Prevalence Index work	sheet:		
7				<u>Total % Cover</u>	of:	<u>Multiply</u>	<u>By:</u>
/·		= Total Cove		OBL species	0	x 1 =	0
Couling (Charle Starte are (Diet siege 45 ft)		_ 10tal Cov	21	FACW species	0	x 2 =	0
Sapling/Shrub Stratum (Plot size:15 ft)				FAC species	0	x 3 =	0
1.				FACU species	0	x 4 =	0
2				UPL species	20	x 5 =	100
3				Column Totals	20	(A)	100 (B)
4				Prevalence Ir	ndex = B/A =	5	
5				Hydrophytic Vegetation			
6.				1- Rapid Test for I		/egetation	1
7				2 - Dominance Te		egetation	
	0	= Total Cov	er	3 - Prevalence Inc			
Herb Stratum (Plot size:5 ft)				4 - Morphological		I (Provida	supporting
1. Zea mays	20	Yes	UPL	data in Remarks or on			supporting
2.				Problematic Hydr			(nlain)
3.				¹Indicators of hydric so			•
4.				present, unless disturb		-	gy must be
5.				Definitions of Vegetation		iiatic	
6.				_		r mara in	diameter at
7.				Tree – Woody plants 3 breast height (DBH), re			diameter at
-				_	_	-	ODLI and
8.				Sapling/shrub – Woody greater than or equal t			JBH and
9.				Herb – All herbaceous			gardlass of
10				size, and woody plants			gai uless oi
11				Woody vines – All wood			29 ft in
12				height.	dy viries grea	ter triair 5	.2011111
	20	= Total Cove	er		D 12 \	,	
Woody Vine Stratum (Plot size: 30 ft)				Hydrophytic Vegetation	on Present?	res N	NO <u>~</u>
1							
2							
3.							
4.							
		= Total Cove	er				
		_					
Remarks: (Include photo numbers here or on a separ	ate sneet.)						
Active agricultural field							

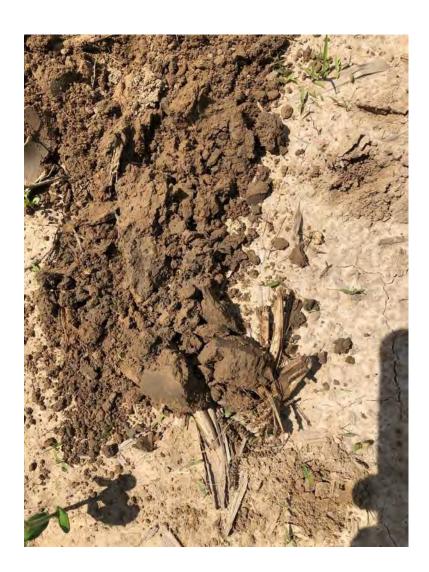
Profile Desc	cription: (Describe t Matrix	to the de	epth needed to d Redox			indicato	r or confirm the a	bsence of i	ndicators.)
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture		Remarks
0 - 13	10YR 4/3	100	Color (moist)	70	туре	LUC	Silt Loam		Remarks
0-13	101114/3	100		- —		·	- SIIC LOGIT	<u>'</u> .	
				- —		·		 -	
				-					
				- —					
				-					
				_					
¹Type: C = C	Concentration, $D = I$	Depletio	n, RM = Reduced	Mati	rix, MS =	Masked	Sand Grains. ² L	ocation: PL	= Pore Lining, M = Matrix.
Hydric Soil	Indicators:							Indicator	s for Problematic Hydric Soils³:
Histosol	(A1)		Polyvalue Be	low S	urface (S	88) (LRR	R, MLRA 149B)	2 cm	Muck (A10) (LRR K, L, MLRA 149B)
Histic Ep	oipedon (A2)		Thin Dark Su	rface	(S9) (LRF	R R, MLR	A 149B)		Prairie Redox (A16) (LRR K, L, R)
Black Hi			Loamy Muck			(LRR K,	L)		Mucky Peat or Peat (S3) (LRR K, L, R)
	en Sulfide (A4)		Loamy Gleye						Surface (S7) (LRR K, L)
	d Layers (A5)		Depleted Ma						alue Below Surface (S8) (LRR K, L)
	d Below Dark Surfa	ice (A11)						Thin I	Dark Surface (S9) (LRR K, L)
	ark Surface (A12)		Depleted Dar)			Manganese Masses (F12) (LRR K, L, R)
-	Mucky Mineral (S1)		Redox Depre	SSIOI	IS (F8)			Piedn	nont Floodplain Soils (F19) (MLRA 149B)
-	Gleyed Matrix (S4)							Mesic	Spodic (TA6) (MLRA 144A, 145, 149B)
-	Redox (S5)							Red P	Parent Material (F21)
	d Matrix (S6)							Very S	Shallow Dark Surface (TF12)
Dark Su	rface (S7) (LRR R, M	ILRA 149	9B)					Other	r (Explain in Remarks)
³ Indicators	of hydrophytic veg	etation a	and wetland hydr	olog	y must b	e preser	nt, unless disturbe	ed or proble	ematic.
Restrictive I	Layer (if observed):								
	Type:		Compaction	_		Hydric	Soil Present?	,	Yes No⁄_
	Depth (inches):		13						
Remarks:									
Observed s	oil compaction was	due to	agricultural activ	ities.					

Hydrology Photos



Vegetation Photos





Project/Site: Trelina	City/County: Clift	on Park, Saratoga	Sampling	Sampling Date: 2019-July-28		
Applicant/Owner: NextEra		State: NY	Sampling Po	oint: W-NWJ-42; PEM-1		
Investigator(s): Nick DeJohn, N	ate Jones	Section, Township,	Range:			
Landform (hillslope, terrace, etc.)	: Depression	Local relief (concave, conv	ex, none): Concave	Slope (%): 0-1		
Subregion (LRR or MLRA): L	RR L	Lat: 42.871405	Long: -76.977872	Datum: WGS84		
Soil Map Unit Name: Claveracl	k loamy fine sand, 0 to 2 percent slope	es	NWI cl	assification:		
Are climatic/hydrologic condition	s on the site typical for this time of ye	ear? Yes No	_ ∠ (If no, explain in R	emarks.)		
Are Vegetation, Soil,	or Hydrology significantly dis		al Circumstances" pres	ent? Yes 🟒 No		
Are Vegetation, Soil,	or Hydrology naturally probl	lematic? (If needed,	explain any answers in	ı Remarks.)		
SUMMARY OF FINDINGS – A	Attach site map showing sampli	ng point locations, tra	nsects, important fe	eatures, etc.		
Hydrophytic Vegetation Present	? Yes _ 🗸 No					
Hydric Soil Present?	Yes No	Is the Sampled Area with	in a Wetland?	Yes∕_ No		
•		ł				
Wetland Hydrology Present?	Yes No	If yes, optional Wetland S	ite iD.	W-NWJ-42		
Remarks: (Explain alternative pro	ocedures here or in a separate report)				
TRC covertype is PEM. Wetter th	an average year					
HYDROLOGY						
Wetland Hydrology Indicators:						
Primary Indicators (minimum of	one is required; check all that apply)		•	(minimum of two required)		
<u></u> Surface Water (A1)	Water-Stained Lea		Surface Soil Cracks			
<u>✓</u> High Water Table (A2)	Aquatic Fauna (B1		Drainage Patterns			
✓ Saturation (A3)	Marl Deposits (B1		Moss Trim Lines (B16) Dry-Season Water Table (C2)			
Water Marks (B1) Sediment Deposits (B2)	Hydrogen Sulfide	neres on Living Roots (C3)	Crayfish Burrows (
Sediment Deposits (B2)	Oxidized Rilizospi	ieres on Living Roots (C3)	•	on Aerial Imagery (C9)		
Drift Deposits (B3)	Presence of Redu	ced Iron (C4)	Stunted or Stresse			
Algal Mat or Crust (B4)		ction in Tilled Soils (C6)	Geomorphic Positi			
Iron Deposits (B5)	Thin Muck Surface		Shallow Aquitard (
Inundation Visible on Aerial I	magery (B7) Other (Explain in F	Remarks)	Microtopographic			
Sparsely Vegetated Concave	Surface (B8)		<u>✓</u> FAC-Neutral Test ([D5)		
Field Observations:						
Surface Water Present?	Yes No Depth	(inches): 2				
Water Table Present?	Yes No Depth	(inches): 0	Wetland Hydrology Pr	resent? Yes No		
Saturation Present?	Yes _ 🗸 No Depth	(inches): 0	-			
(includes capillary fringe)		· · ·	-			
	n gauge, monitoring well, aerial photos	s previous inspections) if	available:			
Describe Recorded Data (stream	r gauge, morntoring well, aeriai photo.	s, previous irispections), ir	available.			
Remarks:						

·				5 . 7 . 11			
<u>Tree Stratum</u> (Plot size: <u>30 ft</u>)		Dominant		Dominance Test worksh			
	% Cover	Species?	Status	Number of Dominant Sp	ecies That	2	(A)
1				Are OBL, FACW, or FAC:			
2				Total Number of Domina	ant Species	2	(B)
3	_			Across All Strata:			
4.				Percent of Dominant Sp	ecies i nat	100	(A/B)
5.				Are OBL, FACW, or FAC:			
6.				Prevalence Index worksh			
7.				Total % Cover o		Multiply E	•
	0	= Total Cove	r	OBL species	40	x 1 =	40
Sapling/Shrub Stratum (Plot size:15 ft)		-		FACW species	2	x 2 =	4
1				FAC species	0	x 3 =	0
2.				FACU species	0	x 4 =	0
-				UPL species	0	x 5 =	0
3.				Column Totals	42	(A)	44 (B)
4				Prevalence Inc	dex = B/A =	1	
5				Hydrophytic Vegetation	Indicators:		· ·
6.				1- Rapid Test for Hy		agetation	
7				✓ 2 - Dominance Test		egetation	
	0	= Total Cove	er	✓ 3 - Prevalence Inde			
Herb Stratum (Plot size:5 ft)						(Dravida a	unnorting
1. Carex stipata	25	Yes	OBL	4 - Morphological A data in Remarks or on a			upporting
2. Eleocharis palustris	15	Yes	OBL	Problematic Hydro			alain)
3. Fraxinus pennsylvanica	2	No	FACW	Indicators of hydric soil			
4.				present, unless disturbe			y must be
5.				·	-	Hatic	
6.				Definitions of Vegetation			
7.				Tree – Woody plants 3 in breast height (DBH), reg			iameter at
							Diland
8				Sapling/shrub – Woody preater than or equal to			ъп апи
9				Herb – All herbaceous (r			ardlass of
10				size, and woody plants le			aruless or
11				Woody vines – All woody			00 ft in
12				height.	/ viries great	.ci (iiaii 3.2	20 11 111
	42	= Total Cove	er				
Woody Vine Stratum (Plot size: 30 ft)				Hydrophytic Vegetation	Present? \	′es _ .⁄ _ No	o
1							
2.							
3.							
4.							
	0	= Total Cove	r				
	-	-					
Remarks: (Include photo numbers here or on a separ	ate sheet.)						

(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Textu	ire Remarks
0 - 14	10YR 3/1	96	10YR 6/8	4	С	M	Silty Clay	
		_		_				
		_		_				
				_				
				_				
		_		_				
T			DM Dadward		- MC	N 4 l l	Sand Cosins 21 a	D. D. Lizia M. Makin
•	Concentration, D = I Indicators:	Jepleti	on, RM = Reduced	Mat	rix, MS =	Masked	Sand Grains. ² Lo	ocation: PL = Pore Lining, M = Matrix. Indicators for Problematic Hydric Soils ³ :
Black H Hydrog	i (A1) Dipedon (A2) stic (A3) en Sulfide (A4) d Layers (A5)		Polyvalue Bel Thin Dark Sui Loamy Mucky Doamy Gleyei Depleted Mai	rface y Mir d Ma	(S9) (LRR neral (F1) trix (F2)	R, MLR	A 149B)	2 cm Muck (A10) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (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)
Thick D	d Below Dark Surfa ark Surface (A12) Mucky Mineral (S1)	ice (A11	I) <u>✓</u> Redox Dark S Depleted Dar Redox Depre	k Su	rface (F7)			Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L, R)
Sandy 0	Gleyed Matrix (S4)				- (- ,			Piedmont Floodplain Soils (F19) (MLRA 149B) Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
	d Matrix (S6) rface (S7) (LRR R, M	ILRA 14	9B)					Red Parent Material (F21) Very Shallow Dark Surface (TF12) Other (Explain in Remarks)
	of hydrophytic vege		and wetland hydr	olog	y must be	e presen	t, unless disturbed	d or problematic.
estrictive	Layer (if observed): Type: Depth (inches):		None			Hydric	Soil Present?	Yes No
temarks:	Depair (menes).					1		·

Hydrology Photos



Vegetation Photos



Project/Site: Trelina	City/County: Clifte	on Park, Saratoga	Samplii	Sampling Date: 2019-June-28			
Applicant/Owner: NextEra		State: NY	Sampling	Point: W-NWJ-42; PFO-1			
Investigator(s): Nick DeJohn, N	ate Jones	Section, Township,	Range:				
Landform (hillslope, terrace, etc.)	: Depression	Local relief (concave, conv	ex, none): Concave	Slope (%): 0-1			
Subregion (LRR or MLRA): L	RR L	Lat: 42.870827	Long: -76.9793	01 Datum: WGS84			
Soil Map Unit Name: Claveracl	k loamy fine sand, 0 to 2 percent slope	es	NW	l classification:			
Are climatic/hydrologic condition	s on the site typical for this time of ye	ear? Yes No	_ ∠ (If no, explain ir	n Remarks.)			
Are Vegetation, Soil,	or Hydrology significantly dis		al Circumstances" pr	resent? Yes 🔽 No			
Are Vegetation, Soil,	or Hydrology naturally probl	lematic? (If needed,	explain any answers	s in Remarks.)			
SUMMARY OF FINDINGS – A	Attach site map showing samplir	ng point locations, tra	nsects, important	features, etc.			
Hydrophytic Vegetation Present	? Yes No						
Hydric Soil Present?	Yes _ ✓ _ No	Is the Sampled Area with	in a Wetland?	Yes No			
•		<u> </u>					
Wetland Hydrology Present?	Yes No	If yes, optional Wetland S	ite ib.	W-NWJ-42			
Remarks: (Explain alternative pro	ocedures here or in a separate report)					
TRC covertype is PFO. Wetter tha	an average year						
HYDROLOGY							
Wetland Hydrology Indicators:							
Primary Indicators (minimum of	one is required; check all that apply)		•	rs (minimum of two required)			
<u></u> Surface Water (A1)	<u> ✓</u> Water-Stained Lea		Surface Soil Cra				
<u>✓</u> High Water Table (A2)	<u> </u> Aquatic Fauna (B1		Drainage Patter				
✓ Saturation (A3)	Marl Deposits (B1:		Moss Trim Lines (B16) Dry-Season Water Table (C2)				
Water Marks (B1) Sediment Deposits (B2)	Hydrogen Sulfide	neres on Living Roots (C3)	6.1.5				
Sediment Deposits (B2)	Oxidized Rilizospi	ieres on Living Roots (C3)	•	le on Aerial Imagery (C9)			
Drift Deposits (B3)	Presence of Reduc	ced Iron (C4)	Stunted or Stres				
Algal Mat or Crust (B4)		ction in Tilled Soils (C6)	sition (D2)				
Iron Deposits (B5)	Thin Muck Surface		Shallow Aquitar				
Inundation Visible on Aerial I	magery (B7) Other (Explain in F	Remarks)	Microtopograph				
Sparsely Vegetated Concave	Surface (B8)		✓ FAC-Neutral Tes	t (D5)			
Field Observations:							
Surface Water Present?	Yes No Depth	(inches): 6					
Water Table Present?	Yes No Depth	(inches): 0	Wetland Hydrology	Present? Yes No			
Saturation Present?	Yes _ ✓ No Depth	(inches): 0	-				
(includes capillary fringe)			-				
	a gauge monitoring well periol photo	c provious inspections) if	available.	<u> </u>			
Describe Recorded Data (stream	n gauge, monitoring well, aerial photos	s, previous irispections), ii	avaliable.				
Remarks:							

	Absolute	Dominant	Indicator	Dominance Test worksheet:		
<u>Tree Stratum</u> (Plot size: <u>30 ft</u>)		Species?	Status	Number of Dominant Species That	2	(4)
1. Fraxinus pennsylvanica	40	Yes	FACW	Are OBL, FACW, or FAC:	2	(A)
2. Acer rubrum	25	Yes	FAC	Total Number of Dominant Species	2	(B)
3.				Across All Strata:		(D)
4.				Percent of Dominant Species That	100	(A/B)
5.				Are OBL, FACW, or FAC:		
6.				Prevalence Index worksheet:		
7.				Total % Cover of:	Multiply	<u>By:</u>
··-	65	= Total Cov	er	- OBL species0	x 1 = _	0
Sapling/Shrub Stratum (Plot size:15 ft)		-	Ci	FACW species 40	x 2 =	80
1.				FAC species 25	x 3 =	75
2.				FACU species 0	x 4 =	0
				UPL species 0	x 5 =	0
3.				Column Totals 65	(A)	155 (B)
4				Prevalence Index = B/A =	2.4	
5.				Hydrophytic Vegetation Indicators:		
6.				1- Rapid Test for Hydrophytic	Vegetation	
7				2 - Dominance Test is >50%		
	0	_= Total Cov	er	\checkmark 3 - Prevalence Index is $\le 3.0^{\circ}$		
<u>Herb Stratum</u> (Plot size: <u>5 ft</u>)				4 - Morphological Adaptations	1 (Provide	supporting
1				data in Remarks or on a separate s		
2.				Problematic Hydrophytic Vege	etation¹ (Ex	plain)
3				¹ Indicators of hydric soil and wetlar	nd hydrolog	gy must be
4				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	neight.	
8				Sapling/shrub – Woody plants less		BH and
9				greater than or equal to 3.28 ft (1 n		
10				Herb – All herbaceous (non-woody)		gardless of
11.				size, and woody plants less than 3.2		
12.	<u> </u>			Woody vines – All woody vines grea	iter than 3.	28 ft in
	0	= Total Cov	er	height.		
Woody Vine Stratum (Plot size:30 ft)	-	_		Hydrophytic Vegetation Present?	Yes 🟒 N	lo
1.						
2.						
3.				-		
4.				-		
· -	0	= Total Cov	er	-		
		-				
Remarks: (Include photo numbers here or on a separat	e sheet.)					

Profile Description: (Describe to the Depth Matrix	=	document the i	indicator or co	nfirm the absen	nce of indicators.)
(inches) Color (moist) %	· -	<u>%</u> Type¹	Loc²	Texture	Remarks
		- — — — — — — — — — — — — — — — — — — —			
Transfer Communication D. Donal	- DM Dadas	d Marketin MC	Mankani Carak		in Die Dans Linia M. Makris
Type: C = Concentration, D = Depl Hydric Soil Indicators:	euon, kivi = Keduce	u iviatrix, MS =	iviasked Sand (ion: PL = Pore Lining, M = Matrix. licators for Problematic Hydric Soils ³ :
Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A 12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA	Thin Dark Su Loamy Muck Loamy Gleys Depleted Ma A11)Redox Dark Depleted Da Redox Depre	urface (S9) (LRF ky Mineral (F1) ed Matrix (F2) atrix (F3) Surface (F6) irk Surface (F7) essions (F8)		A 149B)	2 cm Muck (A10) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (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) 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)
Restrictive Layer (if observed):	on and wedana nye	n ology must b		33 distarbed or	problematic.
Type: Depth (inches):	None	-	Hydric Soil Pr	esent?	Yes No
Remarks: Due to inundation a clear soil profi	le was unobtainabl	e. Soils are ass	umed to be hy	dric.	

Hydrology Photos



Vegetation Photos



Project/Site: Trelina		City/County:_Clif	ton Park, Saratoga	Sampling Date	: 2019-June-28
Applicant/Owner: NextEra			State: NY	Sampling Point:	W-NWJ-42; UPL-1
Investigator(s): Nick DeJohn, N	Nate Jones		Section, Township,	Range:	
Landform (hillslope, terrace, etc.	.): Agricultura	l Field	Local relief (concave, conv	ex, none): Flat	Slope (%): 0-1
Subregion (LRR or MLRA):	LRR L		Lat: 42.870623	Long: -76.979216	Datum: WGS84
Soil Map Unit Name: Claverad	ck loamy fine sand,	, 0 to 2 percent slop	es <u> </u>	NWI classif	ication:
Are climatic/hydrologic condition	ns on the site typic	al for this time of y	ear? Yes No	(If no, explain in Rema	rks.)
Are Vegetation, Soil,	or Hydrology	significantly d		al Circumstances" present?	Yes ∠ No
Are Vegetation, Soil,		naturally prob		explain any answers in Ren	narks.)
SUMMARY OF FINDINGS –	Attach site man	showing sampl	ing point locations trai	nsects important featu	ras atc
	Attach site map	Showing sampi		isects, important reatu	163, 616.
Hydrophytic Vegetation Present	t? Yes	i No _ _			
Hydric Soil Present?	Yes	5 No _ _ _	Is the Sampled Area withi	n a Wetland?	Yes No/_
Wetland Hydrology Present?	Yes	No ∠ _	If yes, optional Wetland S	ite ID:	
Remarks: (Explain alternative p	·				
 -	rocedures riere or	пта зерагате герог	L)		
I					
TRC covertype is UPL. Wetter th	nan average year				
HYDROLOGY					
Wetland Hydrology Indicators:					
Primary Indicators (minimum o	f one is required: c	heck all that annly)		Secondary Indicators (mini	imum of two required)
•	•			Surface Soil Cracks (B6)	•
Surface Water (A1)		Water-Stained Le		Drainage Patterns (B10	
High Water Table (A2)		Aquatic Fauna (B		Moss Trim Lines (B16)	')
Saturation (A3)	_	Marl Deposits (B		Dry-Season Water Table	e (C2)
Water Marks (B1)		Hydrogen Sulfide			c (c_)
Sediment Deposits (B2)	_	_ Oxidized Kriizosp	heres on Living Roots (C3)	Saturation Visible on A	erial Imagery (C9)
Drift Deposits (B3)		Presence of Redu	iced Iron (C4)	Stunted or Stressed Pla	-
Algal Mat or Crust (B4)			ction in Tilled Soils (C6)	Geomorphic Position (I	
Iron Deposits (B5)		Thin Muck Surfac	` ,	Shallow Aquitard (D3)	J2)
Inundation Visible on Aerial	Imagery (B7)	Other (Explain in		Microtopographic Relie	of (D4)
Sparsely Vegetated Concave				FAC-Neutral Test (D5)	(5 .)
Field Observations:	Surface (Bo)				
	Vos No	/ Donth	(inches):		
Surface Water Present?	Yes No	·	(inches):	-	
Water Table Present?	Yes No		(inches):	Wetland Hydrology Preser	nt? Yes No
Saturation Present?	Yes No	<u>✓</u> Depth	(inches):		
(includes capillary fringe)				-	
Describe Recorded Data (stream	m gauge monitorir	ng well, aerial nhoto	os, previous inspections) if	available:	·
Describe necoraca bata (streat	n gaage, monitorii	16 Well, derial priote	s, previous inspections,, in	avanable.	
Remarks:					
i					

To Charles (District 20 ft)	Absolute	Dominant	Indicator	Dominance Test worksheet:		
<u>Tree Stratum</u> (Plot size: <u>30 ft</u>)	% Cover	Species?	Status	Number of Dominant Species Th	nat o	(A)
1.				Are OBL, FACW, or FAC:		(A)
2.				Total Number of Dominant Spec	ies 1	(B)
3.	-			Across All Strata:		(b)
4.				Percent of Dominant Species Th	at o	(A/B)
5.				Are OBL, FACW, or FAC:		
6.				Prevalence Index worksheet:		
7.				Total % Cover of:	<u>Multiply</u>	<u>By:</u>
/·		= Total Cove	<u> </u>	OBL species 0	x 1 =	0
Couling (Church Church une (Dich siege 45 ft)		_ 10tal Cove	1	FACW species 0	x 2 =	0
Sapling/Shrub Stratum (Plot size:15 ft)				FAC species 0	x 3 =	0
1.				FACU species 0	x 4 =	0
2.				UPL species 0	x 5 =	0
3				Column Totals 0	(A)	0 (B)
4				Prevalence Index = B/A		
5				Hydrophytic Vegetation Indicato		
6				1- Rapid Test for Hydrophy		
7				2 - Dominance Test is > 500		
	0	= Total Cove	r	3 - Prevalence Index is ≤ 3		
Herb Stratum (Plot size: <u>5 ft</u>)				4 - Morphological Adaptati		cupporting
1. Glycine max	28	Yes	NI	data in Remarks or on a separat		supporting
2.				Problematic Hydrophytic V		nlain)
3.				¹Indicators of hydric soil and we	-	
4.				present, unless disturbed or pro		gy must be
5.	-			Definitions of Vegetation Strata:		
6.				Tree – Woody plants 3 in. (7.6 cm		diameter at
7.				breast height (DBH), regardless		ulairietei at
8.				Sapling/shrub – Woody plants le		ORH and
9.				greater than or equal to 3.28 ft (DDIT GITG
40				Herb – All herbaceous (non-woo		ardless of
10.				size, and woody plants less than		541 41033 01
11				Woody vines – All woody vines g		.28 ft in
12				height.		
	28	_= Total Cove	r	Hydrophytic Vegetation Presen	7 Vos N	lo /
Woody Vine Stratum (Plot size: 30 ft)				Trydrophytic vegetation i resen	.: 163 1	···
1						
2						
3						
4						
	0	= Total Cove	r			
Remarks: (Include photo numbers here or on a separa	ite sheet)					
Thermatics: (merade prioco fiambers fiere of on a separa	ite si iceti,					

Depth (inches) Matrix (inches) Redox Features 0 - 12 10YR 4/2 100 You Type¹ Loc² Texture Silt Loam Silt Loam	PL = Pore Lining, M = Matrix. tors for Problematic Hydric Soils ³ :
	PL = Pore Lining, M = Matrix.
¹ Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. ² Location:	
· · · · · · · · · · · · · · · · · · ·	tors for i robicinade riyane sons .
Dehember Delevision (CO) (LDD D. M. DA 440D)	14 1 (440) (IBB I/ I : " = : 1 (25)
Listic Enjoydon (A2) This Dark Surface (S0) (LDD D. MLDA 140D)	m Muck (A10) (LRR K, L, MLRA 149B)
Plack Histis (A2) Learny Mucky Mineral (E1) (LPR K. L)	ast Prairie Redox (A16) (LRR K, L, R)
Hydrogen Sulfide (A4) Loamy Gleved Matrix (E2)	m Mucky Peat or Peat (S3) (LRR K, L, R)
Stratified Layers (A5) Depleted Matrix (F3)	rk Surface (S7) (LRR K, L)
Depleted Below Dark Surface (A11) Redox Dark Surface (F6)	lyvalue Below Surface (S8) (LRR K, L)
L LDICK DARK SURTACE (A LZ) DEDIETED DARK SURTACE (EZ)	in Dark Surface (S9) (LRR K, L)
Sangy Mucky Mineral (ST) Redox Depressions (F8)	n-Manganese Masses (F12) (LRR K, L, R)
Sandy (aleved Matrix (S4)	edmont Floodplain Soils (F19) (MLRA 149B)
Sandy Padov (SS)	esic Spodic (TA6) (MLRA 144A, 145, 149B)
Stripped Matrix (SS)	d Parent Material (F21)
Dark Surface (S7) (LDD D. MLDA 140D)	ry Shallow Dark Surface (TF12)
00	her (Explain in Remarks)
³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or pro	blematic.
Restrictive Layer (if observed):	
Type: Compaction Hydric Soil Present?	Yes No <u>/</u> _
Depth (inches): 11	
Remarks: Observed soil compaction was due to agricultural activities.	

Hydrology Photos



Vegetation Photos



Investigator(s): Nick Dejohn, Nate Jones Section, Township, Range: Lact: 42.870573	Project/Site: Trelina	City/County: Clift	ton Park, Saratoga	Sampling Date: 2019-July-28			
Androm (fillslope, terrace, etc.): Agricultural Field Lotal relief (concave, convex, none): Flat Slope (%): 0-1 Subregion (IRR or MIRA): IRR L Lat. 42.870573 Long. 7-6.979469 Darim: WGS84 Side Map Unit Name: Schoharie silt loam, 2 to 6 percent slopes NWI classification: We climatichydrologic conditions on the site typical for this time of year? Yes No ∠ (if no, explain in Remarks.) We vegetation Soil or Phydrology significantly sidsurbed?	Applicant/Owner: NextEra		State: NY	Sa	ampling Point: W-NW	J-43; UPL-1	
Subtregion (LRR or MLRA): LRE L Lat: 42.870573 Long: 7-6.979469 Datum: WGS84 Sool Map Unit Name: Schoharie sitt loam, 2 to 6 percent slopes	Investigator(s): Nick DeJohn, N	ate Jones	Section, Township,	Range:			
Soll Map Unit Name: Schoharie silt loam, 2 to 6 percent slopes ve climatic hydrologic conditions on the site typical for this time of year? ve loams for this time of year? ve Vegetation Soil or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No (if no. explain in Remarks.) Are "Normal Circumstances" present? Yes No (if needed, explain any answers in Remarks.) SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Yes No (if needed, explain any answers in Remarks.) SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Yes No (if yes, optional Wetland? Yes No (if yes, optional Wetland? Yes No (if yes, optional Wetland Site ID: Remarks: (Explain alternative procedures here or in a separate report) TRC covertype is UPL. Wetter than average year HYDROLOGY Wetland Hydrology Indicators: (minimum of one is required; check all that apply) Secondary.Indicators (minimum of two required) Surface Water (A1)	Landform (hillslope, terrace, etc.)	: Agricultural Field	Local relief (concave, conv	ex, none): F	-lat	Slope (%): 0-1	
Are climatic/hydrologic conditions on the site typical for this time of year? Are Vegetation Soil or Hydrology significantly disturbed? Are Normal Circumstances' present? Yes No Now Yes Yes No Now Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes	Subregion (LRR or MLRA):	RR L	Lat: 42.870573	Long: -	76.979469	Datum: WGS84	
Are Vegetation Soil or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No No Vere Vegetation Soil or Hydrology naturally problematic? (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Yes No Vestand Hydrology Present? Yes No Vestand Hydrology Present? Yes No Vestand Hydrology Present? Yes No Vestand Hydrology Present? Yes No Vestand Hydrology Indicators: Primary Indicators (Explain alternative procedures here or in a separate report) TRC covertype is UPL Wetter than average year Hydrogony Indicators (minimum of one is required; check all that apply) Surface Water (A1) Water-Stained Leaves (B9) Surface Soil Cracks (B6) Drainage Patterns (B10) Saturation (A3) Mari Deposits (B15) Drainage Patterns (B10) Saturation (A3) Mari Deposits (B15) Moss Trim Lines (B16) Water Marks (B1) Hydrogens Unified Odor (C1) Dry-Season Water Table (C2) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Sturted or Stressed Plants (D1) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Sturted or Stressed Plants (D1) Iron Deposits (B3) Recent Iron Reduction in Tilled Soils (C6) Shallow Aquitant (D3) In Indiation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Microtopographic Relief (D4) Fac. No Pesting Present? Yes No Depth (inches): Wettar Table Present? Yes No Depth (inches): Wettar Table Present? Yes No Depth (inches): Wettar Table Present? Yes No Depth (inches): Wettar Hydrology Present? Yes No Depth (inches): Wettar Hydrology Present? Yes No Depth (inches): Wettar Hydrology Present? Yes No Depth (inches): Wettar Hydrology Present? Yes No Depth (inches): Wettar Hydrology Present? Yes No Depth (inches): Wettar Hydrology Present? Yes No Depth (inches): Wettar Hydrology Present? Yes No Depth (inches): Wettar Hydrology Present? Yes No Depth (inches): Wettar Hydrology Present? Yes No Depth (inches): Wettar Hydro	Soil Map Unit Name: Schohari	e silt loam, 2 to 6 percent slopes			NWI classification:		
Are Vegetation Soil or Hydrology naturally problematic? (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present?	Are climatic/hydrologic condition	s on the site typical for this time of ye	ear? Yes No	(If no, e	xplain in Remarks.)		
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Yes No	Are Vegetation, Soil,	or Hydrology significantly di	sturbed? Are "Norm	al Circumstaı	nces" present? Y	es No	
Hydrophytic Vegetation Present? Yes No / Is the Sampled Area within a Wetland? Yes No / If yes, optional Wetland Site ID: Remarks: (Explain alternative procedures here or in a separate report) TRC covertype is UPL. Wetter than average year Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) Surface Water (A1) Water-Stained Leaves (B9) Surface Soil Cracks (B6) High Water Table (A2) Aquatic Fauna (B13) Drainage Patterns (B10) ———————————————————————————————————	Are Vegetation, Soil,	or Hydrology naturally prob	lematic? (If needed,	explain any	answers in Remarks.)		
Hydrophytic Vegetation Present? Yes No / Is the Sampled Area within a Wetland? Yes No / If yes, optional Wetland Site ID: Remarks: (Explain alternative procedures here or in a separate report) TRC covertype is UPL. Wetter than average year Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) Surface Water (A1) Water-Stained Leaves (B9) Surface Soil Cracks (B6) High Water Table (A2) Aquatic Fauna (B13) Drainage Patterns (B10) ———————————————————————————————————							
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Wetland Hydrology Present? Wetland Hydrology Present? Wetland Hydrology Indicators: Primary Indicators (minimum of two required) Secondary Indicators (minimum of two required) Surface Water (A1)			Is the Sampled Area withi	in a Wetland?	? Yes	No ./	
AVDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one is required: check all that apply) Surface Water (A1) High Water Table (A2) Saturation (A3) Marl Deposits (B15) Sediment Deposits (B2) Drift Deposits (B3) Drift Deposits (B3) Drift Deposits (B3) Drift Deposits (B3) Drift Deposits (B3) Presence of Reduced Iron (C4) Iron Deposits (B3) Iron Deposits (B4) Recent Iron Reduction in Tilled Soils (C6) Iron Deposition (D2) Iron Deposits (B3) Drift Deposits (B3) Presence of Reduction in Tilled Soils (C6) Iron Deposits (B3) Drift Deposits (B4) Recent Iron Reduction in Tilled Soils (C6) Spall Mater Or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Spall Mater Or Crust (B4) Presence (C7) Shallow Aquitard (D3) Iron Deposits (B5) Presence (B8) FAC-Neutral Test (D5) Field Observations: Surface Water Present? Ves No Depth (inches): Water Table Present? Ves No Depth (inches): Water Table Present? Ves No Depth (inches): Wetland Hydrology Present? Ves No Depth (inches): Wetland Hydrology Present? Ves No Depth (inches): Wetland Hydrology Present? Ves No Depth (inches): Wetland Hydrology Present? Ves No Depth (inches): Wetland Hydrology Present? Ves No Depth (inches): Wetland Hydrology Present? Ves No Depth (inches): Wetland Hydrology Present? Ves No Depth (inches): Wetland Hydrology Present? Ves No Depth (inches): Wetland Hydrology Present? Ves No Depth (inches): Wetland Hydrology Present? Ves No Depth (inches): Wetland Hydrology Present? Ves No Depth (inches): Wetland Hydrology Present? Wes No Depth (inches): Wetland Hydrology Present? Wes No Depth (inches): Wetland Hydrology Present? Wes No Depth (inches): Wetland Hydrology Present? Wes No Depth (inches): Wetland Hydrology Present? Wes No Depth (inches): Wetland Hydrology Present? Wes No Depth (inches): Wetland Hydrology Present? Wes No Depth (inches):			· ·				
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HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) Surface Water (A1)	Remarks: (Explain alternative pro	ocedures here or in a separate report	t)				
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) Surface Water (A1)							
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High Water Table (A2) Saturation (A3) Marl Deposits (B15) Moss Trim Lines (B16) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Presence of Reduced Iron (C4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Saturation Present? Water Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Depth (inches): Wetland Imagery finge) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:				-		or two requirea)	
Saturation (A3)	I			· 			
Water Marks (B1)		•		_			
	1	•					
		, ,		-			
Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Geomorphic Position (D2) Iron Deposits (B5) Thin Muck Surface (C7) Shallow Aquitard (D3) Microtopographic Relief (D4) Sparsely Vegetated Concave Surface (B8) TAC-Neutral Test (D5) Sparsely Vegetated Concave Surface (B8) Depth (inches): Wetland Hydrology Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Depth (inches): No Depth (inches): Depth (inches): No Depth (inches): Depth (inches): No Depth (inches): Depth (inches): No Depth (inches): Depth (inches): No Depth (inches): No Depth (inches): No Depth (inches):	Sediment Deposits (B2)	Oxidized Kilizosp	ricies on Living Roots (CS)	-		nagery (C9)	
Algal Mat or Crust (B4)Recent Iron Reduction in Tilled Soils (C6) Geomorphic Position (D2) Iron Deposits (B5) Thin Muck Surface (C7) Shallow Aquitard (D3) Microtopographic Relief (D4) Sparsely Vegetated Concave Surface (B8) TAC-Neutral Test (D5) FAC-Neutral Test (D5) Sparsely Vegetated Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Depth (inches): No Depth (inches): No Depth (inches): No Depth (inches): No Depth (inches): No Depth (inches): No Depth (inches): No Depth (inches): No Depth (inches): No Depth (inches): No Depth (inches): No No	Drift Deposits (B3)	Presence of Redu	iced Iron (C4)	Stunted	or Stressed Plants (D'	1)	
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Microtopographic Relief (D4) Sparsely Vegetated Concave Surface (B8) FAC-Neutral Test (D5)					•	,	
Sparsely Vegetated Concave Surface (B8) FAC-Neutral Test (D5) Field Observations: Surface Water Present? Yes No / Depth (inches): Wetland Hydrology Present? Yes No / Depth (inches): No / Depth (inches): Wetland Hydrology Present? Yes No / Depth (inches): No No / Depth (inches): No No No No No No No No No	Iron Deposits (B5)	Thin Muck Surfac	e (C7)	Shallow	Aquitard (D3)		
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:	Inundation Visible on Aerial I	magery (B7) Other (Explain in	Remarks)	Microto	pographic Relief (D4)		
Surface Water Present? Yes No /_ Depth (inches): Wetland Hydrology Present? Yes No /_ Depth (inches): Wetland Hydrology Present? Yes No /_ Depth (inches): Outline Control of the Control of	Sparsely Vegetated Concave	Surface (B8)		FAC-Neu	utral Test (D5)		
Water Table Present? Yes No / Depth (inches): Wetland Hydrology Present? Yes No / Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Field Observations:						
Saturation Present? Yes No Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Surface Water Present?	Yes No 🟒 Depth	(inches):	_			
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Water Table Present?	Yes No _ _/ Depth	(inches):	Wetland Hy	drology Present?	Yes No ∠	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Saturation Present?	Yes No <u></u> Depth	(inches):	-			
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	(includes capillary fringe)			-			
		gauge monitoring well aerial photo	s nrevious inspections) if:	available:		<u> </u>	
Remarks:	Describe Recorded Data (stream	r gauge, monitoring well, aeriai prioto	s, previous inspections,, ir o	available.			
Remarks:							
Remarks:	Down and co.	_					
	Remarks:						

<u>Tree Stratum</u> (Plot size: <u>30 ft</u>)		Dominant		Dominance Test workshe			
	% Cover	Species?	Status	Number of Dominant Sp	ecies That	0	(A)
1				Are OBL, FACW, or FAC:	Ci		
2				Total Number of Domina Across All Strata:	int species	1	(B)
3.				Percent of Dominant Spe	scies That		
4				- Are OBL, FACW, or FAC:	cies mat	0	(A/B)
5				Prevalence Index worksh	noot.		
6				- Total % Cover of		Multiply I	Dv.
7.				- OBL species	<u>. </u>	x 1 =	<u>oy.</u> 0
	0	= Total Cove	er	FACW species	0	x 2 =	0
Sapling/Shrub Stratum (Plot size:15 ft)	,	=		FAC species		_	
1.					0	x3=_	0
2				FACU species	0	x 4 =	0
3.				- UPL species	0	x 5 =	0
4.				- Column Totals	0	(A)	0 (B)
5.				Prevalence Ind	ex = B/A =		
6.				Hydrophytic Vegetation I	ndicators:		
				1- Rapid Test for Hy	drophytic V	egetation	
7		= Total Cove		2 - Dominance Test	is > 50%		
	0	_= TOTAL COVE	er e	3 - Prevalence Inde	x is ≤ 3.0^{1}		
Herb Stratum (Plot size:5 ft)	20	V	N.II	4 - Morphological A	daptations ¹	(Provide s	supporting
1. Glycine max	20	Yes	NI	- data in Remarks or on a	separate sh	ieet)	
2				- Problematic Hydro	phytic Vege	tation¹ (Ex	plain)
3				- ¹Indicators of hydric soil	and wetlan	d hydrolog	gy must be
4				present, unless disturbed	d or probler	matic	
5				Definitions of Vegetation	Strata:		
6				Tree – Woody plants 3 in	. (7.6 cm) or	more in c	liameter at
7				breast height (DBH), rega	ardless of h	eight.	
8				Sapling/shrub – Woody p	lants less tl	han 3 in. D	BH and
9.				greater than or equal to	3.28 ft (1 m) tall.	
10.				Herb – All herbaceous (n	-		ardless of
11.				size, and woody plants le			
12.				Woody vines – All woody	vines great	er than 3.	28 ft in
	20	= Total Cove	er	height.			
Woody Vine Stratum (Plot size:30 ft)		-		Hydrophytic Vegetation	Present? \	/es N	0 🟒
1.							
2.				-			
3.				-			
· -				-			
4		Tatal Carre		-			
	0	= Total Cove	er				
Remarks: (Include photo numbers here or on a separa	te sheet.)						
Active agricultural field							
•							

Profile Des	ription: (Describe t Matrix	o the de	epth needed to do			indicato	or confirm the al	bsence of indicator	rs.)
(inches)	Color (moist)	%	Color (moist)		Type ¹	Loc ²	Text	ure	Remarks
0 - 14	10YR 4/4	100	Color (moist)		Турс		Silty Cla		Kemarks
		<u> </u>		_					
				_					
				_					
				_					
1Typo: C = 0	Concentration D = I		n PM - Poducod	Mate	iv MC –	Maskad	Sand Crains 21	ocation: DL = Doro	Lining M = Matrix
Hydric Soil	Concentration, D = [zepielio.	ii, kivi – keduced	widti	1X, IVIS =	iviasked	Sanu Grains. *L0		Lining, M = Matrix. bblematic Hydric Soils ³ :
•			Polyvalue Pol	صرير د	urface (c	(A) (I DD I	R MIRA 1/OR)		·
Histosol (A1) Polyvalue Below Surface (S8) (Histic Epipedon (A2) Thin Dark Surface (S9) (LRR R, Black Histic (A3) Loamy Mucky Mineral (F1) (LRI				R, MLR	A 149B)	Coast Prairie	.10) (LRR K, L, MLRA 149B) Redox (A16) (LRR K, L, R)		
	en Sulfide (A4)		Loamy Gleye			(=	-7	5 cm Mucky F Dark Surface	Peat or Peat (S3) (LRR K, L, R)
Stratifie	d Layers (A5)		Depleted Mat						ow Surface (S8) (LRR K, L)
	d Below Dark Surfa	ice (A11)							rface (S9) (LRR K, L)
	ark Surface (A12)		Depleted Dar)			ese Masses (F12) (LRR K, L, R)
	lucky Mineral (S1)		Redox Depre	ssion	ıs (F8)				odplain Soils (F19) (MLRA 149B)
-	ileyed Matrix (S4)								(TA6) (MLRA 144A, 145, 149B)
-	edox (S5)							Red Parent M	laterial (F21)
	d Matrix (S6)								Dark Surface (TF12)
Dark Su	rface (S7) (LRR R, M	ILRA 149	9B)					Other (Explai	n in Remarks)
-	of hydrophytic vege	etation a	and wetland hydr	ology	y must be	e preser	t, unless disturbe	d or problematic.	
	_ayer (if observed):					l liveduries	Cail Duanant?		Voc. No. (
	Type:		compaction			Hyaric	Soil Present?		Yes No/
Remarks:	Depth (inches):		14						
Observed s	oil compaction was	due to	agricultural activi	ties.					

Vegetation Photos



Project/Site: Trelina	City/County: Clift	on Park, Saratoga	Sam	-June-28		
Applicant/Owner: NextEra		State: NY	oling Point: W-NWJ-43; PEM-1			
Investigator(s): Nick DeJohn, N	late Jones	Section, Township,	Range:			
Landform (hillslope, terrace, etc.): Depression	Local relief (concave, conv	ex, none): Conc	ave	Slope (%): 0-1	
Subregion (LRR or MLRA):	RR L	Lat: 42.870533	Long: -76.97	79582 <u></u> I	Datum: WGS84	
Soil Map Unit Name: Schohar	ie silt loam, 2 to 6 percent slopes		1	NWI classification:		
Are climatic/hydrologic condition	ns on the site typical for this time of ye	ear? Yes No	(If no, explai	in in Remarks.)		
Are Vegetation, Soil,	or Hydrology significantly dis		al Circumstances	" present? Ye	es No	
Are Vegetation, Soil,	or Hydrology naturally probl	lematic? (If needed,	explain any ansv	vers in Remarks.)		
SUMMARY OF FINDINGS – A	Attach site map showing sampli	ng point locations, trai	nsects, importa	ant features, et	c.	
Hydrophytic Vegetation Present		1	•			
Hydric Soil Present?	Yes <u></u> No	Is the Sampled Area withi	in a Wetland?	Voc	/ No	
		·			∠_ No	
Wetland Hydrology Present?	Yes / _ No	If yes, optional Wetland S	ite ID:	W-NW	VJ-43	
Remarks: (Explain alternative pr	ocedures here or in a separate report	:)				
TRC covertype is PEM. Wetter th	ian average year					
HYDROLOGY						
Wetland Hydrology Indicators:						
Primary Indicators (minimum of	fone is required; check all that apply)		Secondary Indic	ators (minimum o	of two required)	
✓ Surface Water (A1)	Water-Stained Lea	aves (B9)	Surface Soil Cracks (B6)			
✓ High Water Table (A2)	Aquatic Fauna (B1		Drainage Pat	Drainage Patterns (B10)		
Saturation (A3)	Marl Deposits (B1		Moss Trim Lines (B16)			
Water Marks (B1)	Hydrogen Sulfide	Odor (C1)	Dry-Season Water Table (C2)			
Sediment Deposits (B2)	Oxidized Rhizospł	heres on Living Roots (C3)	Crayfish Burrows (C8)			
				isible on Aerial Im	0 ,	
Drift Deposits (B3)	Presence of Redu		Stunted or Stressed Plants (D1)			
✓ Algal Mat or Crust (B4)		ction in Tilled Soils (C6)	Geomorphic			
Iron Deposits (B5) Inundation Visible on Aerial	Thin Muck Surface		Shallow Aqui			
Sparsely Vegetated Concave	· · · · · · · · · · · · · · · · · · ·	Remarks)	Microtopogr	aphic Relief (D4)		
Field Observations:	Surface (B8)			Test (D3)		
Surface Water Present?	Vos. / No. Donth	(inches).				
	·	(inches): 2	-[
Water Table Present?	Yes _ V No Depth	(inches): 0	Wetland Hydrol	ogy Present?	Yes No	
Saturation Present?	Yes No Depth	(inches): 0	_			
(includes capillary fringe)						
Describe Recorded Data (strean	n gauge, monitoring well, aerial photo	s, previous inspections), if	available:			
Remarks:						

<u>Tree Stratum</u> (Plot size: <u>30 ft</u>)		Dominant Species?	Indicator Status	Dominance Test works Number of Dominant S			
1.	70 COVE	Species:	Jiaius	Are OBL, FACW, or FAC		3	(A)
2.				Total Number of Domir	nant Species	3	(B)
3.				Across All Strata:			
4.				Percent of Dominant S Are OBL, FACW, or FAC		100	(A/B)
5				Prevalence Index works			
6				- Total % Cover		Multiply I	Bv:
7				- OBL species	35	x 1 =	35
	0	_= Total Cove	er	FACW species	0	x 2 =	0
Sapling/Shrub Stratum (Plot size: 15 ft)				FAC species	0	x 3 =	0
· · · · · ·				- FACU species	0	x 4 =	0
2				- UPL species	0	x 5 =	0
3				- Column Totals	35	(A)	35 (B)
4				Prevalence Ir	ndex = B/A =	_1	
5				Hydrophytic Vegetation	n Indicators:		
6				1- Rapid Test for F		/egetation	
7				2 - Dominance Te			
	0	_= Total Cove	er	✓ 3 - Prevalence Ind	lex is ≤ 3.0 ¹		
Herb Stratum (Plot size:5 ft)	1.5	Voc	OBL	4 - Morphological	Adaptations	1 (Provide s	supporting
Typha latifolia Eleocharis palustris	<u>15</u> 10	Yes Yes	OBL OBL	data in Remarks or on			
3. Ranunculus sceleratus	10	Yes	OBL	- Problematic Hydr	, , ,	- '	
		162	OBL	Indicators of hydric so		, .	gy must be
5.				present, unless disturb		matic	
6.				Definitions of Vegetation			
7.				Tree – Woody plants 3 i			liameter at
8.				breast height (DBH), re Sapling/shrub – Woody			IRH and
9.				greater than or equal t			birana
10.				Herb – All herbaceous			ardless of
11.		-		size, and woody plants			,
12.				Woody vines – All wood	dy vines great	ter than 3.	28 ft in
12.	 35	= Total Cove	ρr	height.			
Woody Vine Stratum (Plot size:30 ft)			Ci	Hydrophytic Vegetatio	n Present? \	Yes <u></u> ✓ N	0
1.							
2.				=			
		-		=			
		-		=			
<u> </u>		= Total Cove	er	=			
		_					
3. 4. Remarks: (Include photo numbers here or on a separ	0 ate sheet.)	= Total Cov	er	-			

Profile Desc Depth	cription: (Describe to Matrix	o the c	lepth needed to o Redox			indicato	r or confirm the al	sence of indicators.)	
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture		Remarks
0 - 13	10YR 3/1	95	7.5YR 4/6	5	С	М	Silty Clay		
		_		_					
		_							
		_		_					
				- —			-		
		_		- —					
				_					
¹Type: C = C	Concentration, D = [Depleti	on, RM = Reduced	d Mat	rix, MS =	Masked	Sand Grains. ² Lo	cation: PL = Pore Linin	g, M = Matrix.
Hydric Soil	Indicators:							Indicators for Probler	natic Hydric Soils³:
Histosol	(A1) pipedon (A2)		Polyvalue Be Thin Dark Su				R, MLRA 149B)	2 cm Muck (A10) (•
Black Hi			Loamy Muck					Coast Prairie Redo	ox (A16) (LRR K, L, R) or Peat (S3) (LRR K, L, R)
	en Sulfide (A4)		Loamy Gleye					Dark Surface (S7)	
	d Layers (A5)		Depleted Ma						Surface (S8) (LRR K, L)
	d Below Dark Surfa	ce (A1				`		Thin Dark Surface	
	ark Surface (A12) Mucky Mineral (S1)		Depleted Da Redox Depre)		Iron-Manganese N	Masses (F12) (LRR K, L, R)
	ileyed Matrix (S4)		Redox Depre	233101	15 (1-0)			Piedmont Floodpl	ain Soils (F19) (MLRA 149B)
-	edox (S5)) (MLRA 144A, 145, 149B)
-	d Matrix (S6)							Red Parent Mater	
	rface (S7) (LRR R, M	LRA 14	19B)					Very Shallow Dark Other (Explain in I	
³ Indicators	of hydrophytic vege	etation	and wetland hyd	rolog	y must b	e presei	nt, unless disturbe		
Restrictive I	ayer (if observed):								
	Type:		Compaction	-		Hydric	Soil Present?	Yes No _	
	Depth (inches):		13					<u> </u>	
Remarks: Observed s	oil compaction was	due to	o agricultural activ	vities.					

Hydrology Photos



Vegetation Photos





Project/Site: Trelina	City/County:_ Wa	aterloo, Seneca County	Sampling Date: 2019-June-21			
Applicant/Owner: Trelina		State: Nev	v York Sampling Point: W-V	VSH-01_UPL-1		
Investigator(s): Weston Hilleg	as, Isaac Pallant	Section, Township,	Range:			
Landform (hillslope, terrace, etc.	.): Flat	Local relief (concave, conv	ex, none): Undulating	Slope (%): 1 to 3		
Subregion (LRR or MLRA):	LRR L	Lat: 42.8897865	Long: -76.9285697	Datum: WGS84		
Soil Map Unit Name: Lamson	fine sandy loam and Mucky fine san	dy loam (Lf)	NWI classification	on: None		
Are climatic/hydrologic condition	ns on the site typical for this time of y	year? Yes No	✓ (If no, explain in Remarks.)			
Are Vegetation, Soil,			al Circumstances" present?	Yes No _ _		
Are Vegetation, Soil,	or Hydrology naturally pro	blematic? (If needed,	explain any answers in Remarks	s.)		
SUMMARY OF FINDINGS - A	Attach site map showing samp	ling point locations, trai	nsects, important features,	etc.		
Hydrophytic Vegetation Presen	t? Yes No _ _/ _					
Hydric Soil Present?	Yes No _ _/ _	Is the Sampled Area withi	n a Wetland? Ye	es No⁄_		
Wetland Hydrology Present?	Yes No _ _	If yes, optional Wetland S				
	·		te ib.			
	rocedures here or in a separate repo		raga vaar			
Covertype is OPL. Area is upian	d, not all three wetland parameters a	are present. Wetter than ave	rage year.			
HYDROLOGY						
HIDROLOGI						
Wetland Hydrology Indicators:						
Primary Indicators (minimum o	f one is required; check all that apply	Ù	Secondary Indicators (minimun	n of two required)		
Surface Water (A1)	Water-Stained L	eaves (B9)	Surface Soil Cracks (B6)			
High Water Table (A2)	Aquatic Fauna (I	313)	Drainage Patterns (B10)			
Saturation (A3)	Marl Deposits (E		Moss Trim Lines (B16)			
Water Marks (B1)	Hydrogen Sulfid		Dry-Season Water Table (C2	.)		
Sediment Deposits (B2)	Oxidized Rhizos	pheres on Living Roots (C3)	Crayfish Burrows (C8)Saturation Visible on Aerial	Imagery (C9)		
Drift Deposits (B3)	Processes of Rod	lucad Iran (C4)	Stunted or Stressed Plants (
Algal Mat or Crust (B4)	Presence of Red	uction in Tilled Soils (C6)	Geomorphic Position (D2)	וטן		
Iron Deposits (B5)	Thin Muck Surfa		Shallow Aquitard (D3)			
Inundation Visible on Aerial			Microtopographic Relief (D4	1)		
Sparsely Vegetated Concave		,	FAC-Neutral Test (D5)	•		
Field Observations:						
Surface Water Present?	Yes No 🟒 Dept	:h (inches):				
Water Table Present?		th (inches): 19	Wetland Hydrology Present?	Yes No _ ✓		
Saturation Present?	·	th (inches):	Treatana rijarenegj rresenti			
	163 <u>v</u> 110 Dept	10				
(includes capillary fringe)						
Describe Recorded Data (stream	m gauge, monitoring well, aerial phot	os, previous inspections), if	available:			
Remarks:						
No positive indication of wetlar	ad bydrology was observed					
No positive indication of wetlar	id flydfology was observed.					

<u> </u>	A l l 4 -	D t	to di cakan	Dominance Test workshop			
<u>Tree Stratum</u> (Plot size: <u>30 ft</u>)		Dominant Species?	Status	Dominance Test workshee Number of Dominant Spe			
4	% Cover	3pecies:	Status	Are OBL, FACW, or FAC:	cies mai	1	(A)
1				Total Number of Dominar	nt Species		
2.				Across All Strata:	ic species	2	(B)
3				Percent of Dominant Spec	cies That		
4				Are OBL, FACW, or FAC:		50	(A/B)
5				Prevalence Index workshe	eet:		
6				- Total % Cover of:	:	Multiply	By:
7				- OBL species	4	x 1 =	4
	0	_= Total Cov	er	FACW species	3	x 2 =	6
Sapling/Shrub Stratum (Plot size: 15 ft)				FAC species	25	x 3 =	75
1				- FACU species	93	x 4 =	372
2				- UPL species	0	x 5 =	0
3				Column Totals	125	(A)	457 (B)
4.						· · · -	437 (b)
5.				Prevalence Inde		3.7	
6.				Hydrophytic Vegetation In			
7.				1- Rapid Test for Hyd		egetation	l
· -	0	= Total Cov	er	2 - Dominance Test is			
Herb Stratum (Plot size:5 ft)		-		3 - Prevalence Index			
Trifolium repens	60	Yes	FACU	4 - Morphological Ad			supporting
2. Equisetum arvense	25	Yes	FAC	data in Remarks or on a se			
3. Erigeron annuus	15	No	FACU	- Problematic Hydrop	, ,	•	•
4. Solidago canadensis	15	No		¹Indicators of hydric soil a		,	gy must be
			FACU	present, unless disturbed	•	matic	
5. Carex vulpinoidea	4	No No	OBL	Definitions of Vegetation S			
6. <i>Phragmites australis</i>	3	No	FACW	Tree – Woody plants 3 in.			diameter at
7				breast height (DBH), regar		-	
8				Sapling/shrub – Woody pl			DBH and
9				greater than or equal to 3			
10				Herb – All herbaceous (no size, and woody plants les			gardiess of
11				- 1			20 ft in
12				Woody vines – All woody v height.	viries great	er man 5	.26 11 111
	122	_= Total Cov	er				
Woody Vine Stratum (Plot size: 30 ft)				Hydrophytic Vegetation P	resent? \	/es N	lo <u> ∕ </u>
1. <i>Vitis labrusca</i>	3	No	FACU	_			
2							
3.							
4.				-			
	3	= Total Cov	er	-			
Demonstration (Include the terror to the ter	! + \	=					
Remarks: (Include photo numbers here or on a separate	e sneet.)						
Disturbed area along CSX RR Tracks.							

Profile Des Depth	cription: (Describe t Matrix	to the de	epth needed to de Redox			indicato	r or confirm the a	bsence of indicators	5.)	
(inches)	Color (moist)	%	Color (moist)		Type ¹	Loc ²	Tex	kture	Remarks	
0 - 20	7.5YR 4/4	100	Color (moist)	. 			Sandy Clay Loam		Keridika	
				_						
				_						
				_				_		
				_						
				· —						
				_						
				_						
¹Type: C = 0	Concentration, D = I	 Depletio	n, RM = Reduced	Matı	rix, MS =	 Masked	Sand Grains. ² L	ocation: PL = Pore L	ining, M = Matrix.	
Hydric Soil	Indicators:							Indicators for Pro	blematic Hydric Soils³:	
Histoso	l (A1) pipedon (A2)		Polyvalue Bel Thin Dark Sui				R, MLRA 149B) 4 149B)		0) (LRR K, L, MLRA 149B)	
	istic (A3)		Loamy Mucky					Coast Prairie Redox (A16) (LRR K, L, R)		
	en Sulfide (A4)		Loamy Gleye					5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Dark Surface (S7) (LRR K, L)		
	d Layers (A5) d Below Dark Surfa	co (Δ11	Depleted Mat					Polyvalue Belo	ow Surface (S8) (LRR K, L)	
	ark Surface (A12)		Depleted Dark)		Thin Dark Surface (S9) (LRR K, L)		
Sandy N	Mucky Mineral (S1)		Redox Depre						se Masses (F12) (LRR K, L, R)	
Sandy 0	Gleyed Matrix (S4)								odplain Soils (F19) (MLRA 149B) TA6) (MLRA 144A, 145, 149B)	
-	Redox (S5)							Red Parent Ma		
	d Matrix (S6)								Dark Surface (TF12)	
Dark Su	rface (S7) (LRR R, W	ILRA 149	9B)					Other (Explain	in Remarks)	
-	of hydrophytic veg		and wetland hydr	ology	y must be	e preser	t, unless disturbe	d or problematic.		
Restrictive	Layer (if observed): Type:		None			Hydric	Soil Present?		Yes No/_	
	Depth (inches):		None			liyunc	John resent:		163 NO <u></u>	
Remarks:									-	
No positive	indication of hydri	c soils w	as observed.							
. To positive			as 5250. Tour							

Vegetation Photos



Soil Photos



WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Trelina	City/County: Wat	erloo, Seneca County	Samplir	ng Date: 2019-June-21		
Applicant/Owner: Trelina		State: Nev	v York Sampling	Point: W-WSH-01_PEM-1		
Investigator(s): Weston Hillegas	, Isaac Pallant	Section, Township,	Range:			
Landform (hillslope, terrace, etc.):	Depression	Local relief (concave, conv	ex, none): Concave	Slope (%): 1 to 3		
Subregion (LRR or MLRA): LR	RR L	Lat: 42.889647	Long: -76.9286	62 Datum: WGS84		
Soil Map Unit Name: Lamson fi	ne sandy loam and Mucky fine sand	y loam (Lf)	NWI	classification: PSS		
Are climatic/hydrologic conditions	on the site typical for this time of ye	ear? Yes No	_ ∠ (If no, explain in	ı Remarks.)		
Are Vegetation, Soil,	or Hydrology significantly di	sturbed? Are "Norm	al Circumstances" pr	resent? Yes No		
Are Vegetation, Soil,	or Hydrology naturally prob	lematic? (If needed,	explain any answers	in Remarks.)		
SUMMARY OF FINDINGS – At	ttach site map showing sampli	ng point locations, trai	nsects, important	features, etc.		
Hydrophytic Vegetation Present?	Yes _ ✓ _ No					
Hydric Soil Present?	Yes _ ✓ _ No	Is the Sampled Area withi	n a Wetland?	Yes∕_ No		
Wetland Hydrology Present?	Yes No	If yes, optional Wetland S	W-WSH-01			
			ite iD.			
	cedures here or in a separate report					
Covertype is PEM. Area is wetland	d, all three wetland parameters are p	present. Wetter than averag	ge year.			
HYDROLOGY						
Wetland Hydrology Indicators:						
• •	one is required; check all that apply)		Secondary Indicator	rs (minimum of two required)		
		(50)	Surface Soil Crac	•		
✓ Surface Water (A1)	Water-Stained Lea		Drainage Patter			
✓ High Water Table (A2) ✓ Saturation (A3)	Aquatic Fauna (B1 Marl Deposits (B1		Moss Trim Lines (B16)			
Water Marks (B1)	Warr Deposits (BT			Dry-Season Water Table (C2)		
Sediment Deposits (B2)	, ,	heres on Living Roots (C3)	Crayfish Burrow			
Sediment Beposits (B2)	Oxidized 1411203pt	neres on Eiving Roots (es)	Saturation Visibl	le on Aerial Imagery (C9)		
Drift Deposits (B3)	Presence of Redu	ced Iron (C4)	Stunted or Stres	sed Plants (D1)		
Algal Mat or Crust (B4)		ction in Tilled Soils (C6)	Geomorphic Pos	sition (D2)		
Iron Deposits (B5)	Thin Muck Surface	e (C7)	Shallow Aquitard	_ Shallow Aquitard (D3)		
✓ Inundation Visible on Aerial In	nagery (B7) Other (Explain in l	Remarks)	Microtopograph	ic Relief (D4)		
Sparsely Vegetated Concave S	Surface (B8)		✓ FAC-Neutral Test	t (D5)		
Field Observations:						
Surface Water Present?	Yes No Depth	(inches): 1				
Water Table Present?	Yes No Depth	(inches): 9	Wetland Hydrology	Present? Yes No		
Saturation Present?	Yes 🗸 No Depth	(inches): 0				
(includes capillary fringe)			•			
	gauge, monitoring well, aerial photo	s previous inspections) if	available:			
Describe Recorded Bata (stream	gaage, monitoring wen, denai prioto	s, previous inspections,, in	avanable.			
Remarks:						
The criterion for wetland hydrolo	gy is met.					

VEGETATION -- Use scientific names of plants.

·							
<u>Tree Stratum</u> (Plot size: <u>30 ft</u>)		Dominant		Dominance Test worksheet			
	% Cover	Species?	Status	Number of Dominant Spec	ies That	3	(A)
1				Are OBL, FACW, or FAC:	_		
2				Total Number of Dominant	Species	3	(B)
3				Across All Strata:	- The -		
4				Percent of Dominant Speci	es inat	100	(A/B)
5.				Are OBL, FACW, or FAC:			
6.				Prevalence Index workshee			_
7.				Total % Cover of:		Multiply I	-
		= Total Cove	r	OBL species	85	x 1 =	85
Sapling/Shrub Stratum (Plot size:15 ft)		-		FACW species	50	x 2 =	100
1				FAC species	15	x 3 =	45
2.				FACU species	0	x 4 =	0
-				UPL species	0	x 5 =	0
3.				Column Totals	150	(A)	230 (B)
4.				Prevalence Index	c = B/A =	1.5	
5				Hydrophytic Vegetation Inc			
6				1- Rapid Test for Hydr		egetation	
7				✓ 2 - Dominance Test is		-8	
	0	_= Total Cove	r	✓ 3 - Prevalence Index is			
Herb Stratum (Plot size:5 ft)				4 - Morphological Ada		(Provide s	sunnorting
1. <i>Phragmites australis</i>	40	Yes	FACW	data in Remarks or on a se	•		supporting
2. Scirpus atrovirens	35	Yes	OBL	Problematic Hydroph			nlain)
3. Carex vulpinoidea	25	Yes	OBL	¹Indicators of hydric soil an			
4. Juncus tenuis	15	No	FAC	present, unless disturbed of		-	y must be
5. Carex stipata	15	No	OBL	Definitions of Vegetation S			
6. Carex lurida	10	No	OBL	Tree – Woody plants 3 in. (7		more in c	liameter at
7. Eupatorium perfoliatum	10	No	FACW	breast height (DBH), regard			nameter at
8.				Sapling/shrub – Woody pla			BH and
				greater than or equal to 3.2			
40				Herb – All herbaceous (nor			ardless of
				size, and woody plants less		_	
11				Woody vines - All woody vi	ines greate	er than 3.	28 ft in
12	150	- Total Cause		height.	_		
W 1.75 5: 4 (5) 4 (5) 30 (6) 3	150	_= Total Cove	r	Hydrophytic Vegetation Pr	resent? Ye	es 🗸 N	0
Woody Vine Stratum (Plot size: 30 ft)				injuroprijas regetation r			
1							
2.							
3							
4							
	0	= Total Cove	r				
Remarks: (Include photo numbers here or on a separa	ate sheet)						
The state of the s	acc 51.00cm,						

Profile Deso Depth	cription: (Describe t Matrix	o the c	lepth needed to o			indicato	r or confirm the a	bsence of i	ndicators.)
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	•	Remarks
0 - 20	10YR 3/1	95	7.5YR 4/6	5	С	М	Clay Loam		
		_							
		_							
		_		_					
				_					
		_							
 Tvpe: C = 0	 Concentration, D = [Depleti	on. RM = Reduced	 d Mat	rix. MS =	 Masked	Sand Grains. ² L	 .ocation: PL	= Pore Lining, M = Matrix.
Hydric Soil			,		, -				s for Problematic Hydric Soils³:
Histoso			Polyvalue Be Thin Dark Su				R, MLRA 149B) A 149B)	2 cm	Muck (A10) (LRR K, L, MLRA 149B) : Prairie Redox (A16) (LRR K, L, R)
Black H	stic (A3)		Loamy Muck	y Mir	neral (F1)	(LRR K,	L)		Mucky Peat or Peat (S3) (LRR K, L, R)
	en Sulfide (A4)		Loamy Gleye						Surface (S7) (LRR K, L)
	d Layers (A5)		Depleted Ma						alue Below Surface (S8) (LRR K, L)
	d Below Dark Surfa	ce (A1						Thin I	Dark Surface (S9) (LRR K, L)
	ark Surface (A12)		Depleted Da)		Iron-l	Manganese Masses (F12) (LRR K, L, R)
	Mucky Mineral (S1)		Redox Depre	essior	1S (F8)			Piedn	nont Floodplain Soils (F19) (MLRA 149B)
-	Gleyed Matrix (S4)							Mesic	Spodic (TA6) (MLRA 144A, 145, 149B)
-	ledox (S5)							Red P	Parent Material (F21)
	d Matrix (S6)							Very S	Shallow Dark Surface (TF12)
Dark Su	rface (S7) (LRR R, M	LRA 14	·9B)					Other	r (Explain in Remarks)
	of hydrophytic vege	etation	and wetland hyd	rolog	y must b	e preser	nt, unless disturbe	ed or proble	ematic.
Restrictive	Layer (if observed):					l			
	Type:		None	-		Hydric	Soil Present?		Yes No
	Depth (inches):								
Remarks:	n for hydric soil is r	not							
THE CHIEFTO	ii ioi iiyunc soii is i	net.							

Hydrology Photos



Vegetation Photos





Photo of Sample Plot North



Photo of Sample Plot East



Photo of Sample Plot South



Photo of Sample Plot West





APPENDIX D Soil Descriptions



Soil Descriptions

Alluvial land (Al), 0 to 2 percent slopes - This poorly drained soil makes up approximately 0.0 percent of the Project Area. Alluvial land and similar soils make up 90 percent of the series with the remaining 10 percent being minor components. Alluvial land soils can be found in floodplains and are developed from a parent material of alluvium with highly variable texture. This map unit has a hydric rating of 55 percent.

Arkport loamy fine sand (ArB), 1 to 6 percent slopes - This well drained soil makes up approximately 4.1 percent of the Project Area. Arkport and similar soils make up 75 percent of the series with the remaining 25 percent being minor components. Arkport soils can be found in deltas on lake plains and are developed from a parent material of glaciofluvial or deltaic deposits with a high content of fine and very fine sand. This map unit has a hydric rating of 0 percent.

Arkport loamy fine sand (ArC), 6 to 12 percent slopes - This well drained soil makes up approximately 0.3 percent of the Project Area. Arkport and similar soils make up 85 percent of the series with the remaining 15 percent being minor components. Arkport soils can be found in deltas on lake plains and are developed from a parent material of glaciofluvial or deltaic deposits with a high content of fine and very fine sand. This map unit has a hydric rating of 0 percent.

Canandaigua silt loam (Ca), 0 to 2 percent slopes - This poorly drained soil makes up approximately 0.4 percent of the Project Area. Canandaigua and similar soils make up 80 percent of the series with the remaining 20 percent being minor components. Canandaigua soils can be found in depressions and are developed from a parent material of silty and clayey glaciolacustrine deposits. This map unit has a hydric rating of 85 percent.

Claverack loamy fine sand (CkA), 0 to 2 percent slopes - This moderately well drained soil makes up approximately 15.3 percent of the Project Area. Claverack and similar soils make up 80 percent of the series with the remaining 20 percent being minor components. Claverack soils can be found in lake plains and are developed from a parent material of sandy glaciolacustrine deposits, derived primarily from non-calcareous sandstone or granite, that overlie clayey glaciolacustrine deposits. This map unit has a hydric rating of 5 percent.

Claverack loamy fine sand (CkB), 2 to 6 percent slopes - This moderately well drained soil makes up approximately 13.3 percent of the Project Area. Claverack and similar soils make up 75 percent of the series with the remaining 25 percent being minor components. Claverack soils can be found in lake plains and are developed from a parent material of sandy glaciolacustrine deposits, derived primarily from non-calcareous sandstone or granite, that overlie clayey glaciolacustrine deposits. This map unit has a hydric rating of 5 percent.

Collamer silt loam (CIA), 0 to 2 percent slopes - This moderately well drained soil makes up approximately 4.3 percent of the Project Area. Collamer and similar soils make up 85 percent of the series with the remaining 15 percent being minor components. Collamer soils can be found in lake plains and are developed from a parent material of silty and clayey glaciolacustrine deposits. This map unit has a hydric rating of 5 percent.



Collamer silt loam (CIB), 2 to 6 percent slopes - This moderately well drained soil makes up approximately 1.1 percent of the Project Area. Collamer and similar soils make up 85 percent of the series with the remaining 15 percent being minor components. Collamer soils can be found in lake plains and are developed from a parent material of a of silty and clayey glaciolacustrine deposits. This map unit has a hydric rating of 5 percent.

Cosad loamy fine sand (Cu), 0 to 2 percent slopes - This somewhat poorly drained soil makes up approximately 15.3 percent of the Project Area. Cosad and similar soils make up 80 percent of the series with the remaining 20 percent being minor components. Cosad soils can be found in lake plains and are developed from a parent material of a sandy glaciofluvial or deltaic deposits over clayey glaciolacustrine deposits. This map unit has a hydric rating of 10 percent.

Edwards muck (Ed), 0 to 2 percent slopes - This very poorly drained soil makes up approximately 1.2 percent of the Project Area. Edwards and similar soils make up 80 percent of the series with the remaining 20 percent being minor components. Edwards soils can be found in swamps and marshes and are developed from a parent material of organic material over marl. This map unit has a hydric rating of 100 percent.

Elnora loamy fine sand (EIB), 2 to 6 percent slopes - This moderately well drained soil makes up approximately 0.8 percent of the Project Area. Elnora and similar soils make up 85 percent of the series with the remaining 15 percent being minor components. Elnora soils can be found in beach ridges and are developed from a parent material of sandy glaciofluvial, eolian, or deltaic deposits. This map unit has a hydric rating of 0 percent.

Freshwater marsh (Fw) – This soil class makes up approximately 1.2 percent of the Project Area. Freshwater marsh and similar soils make up 85 percent of the series with the remaining 15 percent being minor components. Freshwater marsh soils can be found in marshes and have a hydric rating of 100 percent.

Lakemont silty clay loam (LcA), 0 to 3 percent slopes - This poorly drained soil makes up approximately 1.0 percent of the Project Area. Lakemont and similar soils make up 85 percent of the series with the remaining 15 percent being minor components. Lakemont soils can be found in depressions and are developed from a parent material of red clayey glaciolacustrine deposits derived from calcareous shale. This map unit has a hydric rating of 95 percent.

Lamson fine sandy loam and Mucky fine sandy loam (Lf), 0 to 2 percent slopes - This very poorly drained soil makes up approximately 5.7 percent of the Project Area. Lamson and similar soils make up 85 percent of the series with the remaining 15 percent being minor components. Lamson soils can be found in depressions and are developed from a parent material of deltaic or glaciolacustrine deposits with a high content of fine and very fine sand. This map unit has a hydric rating of 90 percent.

Made land, tillable, 0 to 8 percent slopes – This moderately well drained soil makes up less than 0.1 percent of the Project Area. Made land and similar soils make up 100 percent of the series. This map unit has a hydric rating of 0 percent.



Muck, deep (Mr), 0 to 2 percent slopes - This very poorly drained soil makes up approximately 3.0 percent of the Project Area. Muck and similar soils make up 85 percent of the series with the remaining 15 percent being minor components. Muck soils can be found in swamps and marshes and are developed from a parent material of organic material. This map unit has a hydric rating of 100 percent.

Niagara silt loam (Ng), 0 to 2 percent slopes - This somewhat poorly drained soil makes up approximately 3.1 percent of the Project Area. Niagara and similar soils make up 85 percent of the series with the remaining 15 percent being minor components. Niagara soils can be found in lake plains and are developed from a parent material of silty and clayey glaciolacustrine deposits. This map unit has a hydric rating of 5 percent.

Odessa silt loam (OdA), 0 to 3 percent slopes - This somewhat poorly drained soil makes up approximately 8.2 percent of the Project Area. Odessa and similar soils make up 85 percent of the series with the remaining 15 percent being minor components. Odessa soils can be found in lake terraces and are developed from a parent material of red clayey glaciolacustrine deposits derived from calcareous shale. This map unit has a hydric rating of 5 percent.

Schoharie silt loam (SeB), 2 to 6 percent slopes - This moderately well drained soil makes up approximately 10.2 percent of the Project Area. Schoharie and similar soils make up 85 percent of the series with the remaining 15 percent being minor components. Schoharie soils can be found in lake terraces and are developed from a parent material of red clayey glaciolacustrine deposits derived from calcareous shale. This map unit has a hydric rating of 0 percent.

Schoharie silty clay loam (ShA), 0 to 3 percent slopes - This moderately well drained soil makes up approximately 7.2percent of the Project Area. Schoharie and similar soils make up 85 percent of the series with the remaining 15 percent being minor components. Schoharie soils can be found in lake terraces and are developed from a parent material of red clayey glaciolacustrine deposits derived from calcareous shale. This map unit has a hydric rating of 0 percent.

Schoharie silty clay loam (ShB), 2 to 6 percent slopes - This moderately well drained soil makes up approximately 1.2 percent of the Project Area. Schoharie and similar soils make up 85 percent of the series with the remaining 15 percent being minor components. Schoharie soils can be found in lake terraces and are developed from a parent material of red clayey glaciolacustrine deposits derived from calcareous shale. This map unit has a hydric rating of 0 percent.

Schoharie silty clay loam (ShC3), 6 to 12 percent slopes- This moderately well drained soil makes up approximately 1.1 percent of the Project Area. Schoharie and similar soils make up 85 percent of the series with the remaining 15 percent being minor components. Schoharie soils can be found in lake terraces and are developed from a parent material of red clayey glaciolacustrine deposits derived from calcareous shale. This map unit has a hydric rating of 0 percent.

Sloan silt loam (Sn), 0 to 2 percent slopes - This very poorly drained soil makes up approximately 0.5 percent of the Project Area. Sloan and similar soils make up 80 percent of the series with the remaining 20 percent being minor components. Sloan soils can be found in flood plains and are



developed from a parent material of loamy alluvium. This map unit has a hydric rating of 95 percent.

Stafford loamy fine sand (Sr), 0 to 2 percent slopes - This somewhat poorly drained soil makes up approximately 1.6 percent of the Project Area. Stafford and similar soils make up 85 percent of the series with the remaining 15 percent being minor components. Stafford soils can be found in beach ridges and are developed from a parent material of sandy glaciofluvial or glaciolacustrine deposits. This map unit has a hydric rating of 5 percent.

Water (W) – Water encompassed approximately 0.2 percent of the Project Area.