

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

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Trelina City/County: Waterloo, Seneca Sampling Date: 2019-June-25
 Applicant/Owner: NextEra State: NY Sampling Point: W-NWJ-05; PEM-1
 Investigator(s): Nick DeJohn, Nate Jones Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none): Concave Slope (%): 0-1
 Subregion (LRR or MLRA): LRR R Lat: 42.9020284955 Long: -76.9308242575 Datum: WGS84
 Soil Map Unit Name: Cosad loamy fine sand NWI classification: _____
 Are climatic/hydrologic conditions on the site typical for this time of year? Yes ____ No ✓ (If no, explain in Remarks.)
 Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes ____ No ✓
 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?	Yes <u>✓</u> No ____	
Hydric Soil Present?	Yes <u>✓</u> No ____	Is the Sampled Area within a Wetland? Yes <u>✓</u> No ____
Wetland Hydrology Present?	Yes <u>✓</u> No ____	If yes, optional Wetland Site ID: <u>W-NWJ-05</u>
Remarks: (Explain alternative procedures here or in a separate report) TRC coverype is PEM. Circumstances are not normal due to agricultural activities		

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u>				<u>Secondary Indicators (minimum of two required)</u>	
<input checked="" type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)			
<input checked="" type="checkbox"/> High Water Table (A2)	<input checked="" type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)			
<input checked="" type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)	<input type="checkbox"/> Moss Trim Lines (B16)			
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Dry-Season Water Table (C2)			
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Crayfish Burrows (C8)			
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)			
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Stunted or Stressed Plants (D1)			
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Geomorphic Position (D2)			
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)			
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<input type="checkbox"/> Microtopographic Relief (D4)			
		<input checked="" type="checkbox"/> FAC-Neutral Test (D5)			
Field Observations:					
Surface Water Present?	Yes <u>✓</u> No ____	Depth (inches):	<u>2</u>	Wetland Hydrology Present? Yes <u>✓</u> No ____	
Water Table Present?	Yes <u>✓</u> No ____	Depth (inches):	<u>0</u>		
Saturation Present?	Yes <u>✓</u> No ____	Depth (inches):	<u>0</u>		
(includes capillary fringe)					
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:					
Remarks:					

VEGETATION -- Use scientific names of plants.

Sampling Point: W-NWJ-05; PEM-1

Tree Stratum (Plot size: <u>30 ft</u>)	Absolute % Cover	Dominant Species?	Indicator Status																																																	
1. <i>Populus deltoides</i>	15	Yes	FAC	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>4</u> (A) Total Number of Dominant Species Across All Strata: <u>4</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)																																																
2. <i>Acer rubrum</i>	8	Yes	FAC																																																	
3. _____	_____	_____	_____																																																	
4. _____	_____	_____	_____																																																	
5. _____	_____	_____	_____																																																	
6. _____	_____	_____	_____																																																	
7. _____	_____	_____	_____																																																	
	<u>23</u>	= Total Cover		Prevalence Index worksheet: <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 30%;"></th> <th style="width: 10%; text-align: center;">Total % Cover of:</th> <th style="width: 10%;"></th> <th style="width: 10%; text-align: center;">Multiply By:</th> <th style="width: 10%;"></th> <th style="width: 10%;"></th> </tr> </thead> <tbody> <tr> <td>OBL species</td> <td style="text-align: center;">45</td> <td>x 1 =</td> <td></td> <td style="text-align: center;">45</td> <td></td> </tr> <tr> <td>FACW species</td> <td style="text-align: center;">0</td> <td>x 2 =</td> <td></td> <td style="text-align: center;">0</td> <td></td> </tr> <tr> <td>FAC species</td> <td style="text-align: center;">23</td> <td>x 3 =</td> <td></td> <td style="text-align: center;">69</td> <td></td> </tr> <tr> <td>FACU species</td> <td style="text-align: center;">0</td> <td>x 4 =</td> <td></td> <td style="text-align: center;">0</td> <td></td> </tr> <tr> <td>UPL species</td> <td style="text-align: center;">0</td> <td>x 5 =</td> <td></td> <td style="text-align: center;">0</td> <td></td> </tr> <tr> <td>Column Totals</td> <td style="text-align: center;">68</td> <td></td> <td>(A)</td> <td style="text-align: center;">114</td> <td>(B)</td> </tr> <tr> <td colspan="4">Prevalence Index = B/A =</td> <td style="text-align: center;"><u>1.7</u></td> <td></td> </tr> </tbody> </table>		Total % Cover of:		Multiply By:			OBL species	45	x 1 =		45		FACW species	0	x 2 =		0		FAC species	23	x 3 =		69		FACU species	0	x 4 =		0		UPL species	0	x 5 =		0		Column Totals	68		(A)	114	(B)	Prevalence Index = B/A =				<u>1.7</u>	
	Total % Cover of:		Multiply By:																																																	
OBL species	45	x 1 =			45																																															
FACW species	0	x 2 =			0																																															
FAC species	23	x 3 =			69																																															
FACU species	0	x 4 =			0																																															
UPL species	0	x 5 =			0																																															
Column Totals	68		(A)	114	(B)																																															
Prevalence Index = B/A =				<u>1.7</u>																																																
Sapling/Shrub Stratum (Plot size: <u>15 ft</u>)																																																				
1. _____	_____	_____	_____																																																	
2. _____	_____	_____	_____																																																	
3. _____	_____	_____	_____																																																	
4. _____	_____	_____	_____																																																	
5. _____	_____	_____	_____																																																	
6. _____	_____	_____	_____																																																	
7. _____	_____	_____	_____																																																	
	<u>0</u>	= Total Cover																																																		
Herb Stratum (Plot size: <u>5 ft</u>)																																																				
1. <i>Lythrum salicaria</i>	25	Yes	OBL	Hydrophytic Vegetation Indicators: ____ 1- Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is >50% <input checked="" type="checkbox"/> 3 - Prevalence Index is ≤ 3.0 ¹ ____ 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) ____ Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic																																																
2. <i>Juncus effusus</i>	20	Yes	OBL																																																	
3. _____	_____	_____	_____																																																	
4. _____	_____	_____	_____																																																	
5. _____	_____	_____	_____																																																	
6. _____	_____	_____	_____																																																	
7. _____	_____	_____	_____																																																	
8. _____	_____	_____	_____																																																	
9. _____	_____	_____	_____																																																	
10. _____	_____	_____	_____																																																	
11. _____	_____	_____	_____																																																	
12. _____	_____	_____	_____																																																	
	<u>45</u>	= Total Cover																																																		
Woody Vine Stratum (Plot size: <u>30 ft</u>)																																																				
1. _____	_____	_____	_____																																																	
2. _____	_____	_____	_____																																																	
3. _____	_____	_____	_____																																																	
4. _____	_____	_____	_____																																																	
	<u>0</u>	= Total Cover																																																		
Remarks: (Include photo numbers here or on a separate sheet.)																																																				

SOIL

Sampling Point: W-NWJ-05; PEM-1

[illegible]

Hydrology Photos



Vegetation Photos



Soil Photos



WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Trelina City/County: Waterloo, Seneca Sampling Date: 2019-June-25
 Applicant/Owner: NextEra State: NY Sampling Point: W-NWJ-05; PFO-1
 Investigator(s): Nick DeJohn, Nate Jones Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none): Concave Slope (%): 0-1
 Subregion (LRR or MLRA): LRR L Lat: 42.9026579764 Long: -76.9306214993 Datum: WGS84
 Soil Map Unit Name: Cosad loamy fine sand NWI classification: _____
 Are climatic/hydrologic conditions on the site typical for this time of year? Yes ____ No ✓ (If no, explain in Remarks.)
 Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes ✓ No ____
 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?	Yes <u>✓</u> No ____	
Hydric Soil Present?	Yes <u>✓</u> No ____	Is the Sampled Area within a Wetland? Yes <u>✓</u> No ____
Wetland Hydrology Present?	Yes <u>✓</u> No ____	If yes, optional Wetland Site ID: W-NWJ-05
Remarks: (Explain alternative procedures here or in a separate report) TRC coverype is PFO. Wetter than average year		

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u>				<u>Secondary Indicators (minimum of two required)</u>	
<input checked="" type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)			
<input checked="" type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)			
<input checked="" type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)	<input type="checkbox"/> Moss Trim Lines (B16)			
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Dry-Season Water Table (C2)			
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Crayfish Burrows (C8)			
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)			
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Stunted or Stressed Plants (D1)			
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input checked="" type="checkbox"/> Geomorphic Position (D2)			
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)			
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<input checked="" type="checkbox"/> Microtopographic Relief (D4)			
		<input checked="" type="checkbox"/> FAC-Neutral Test (D5)			
Field Observations:					
Surface Water Present?	Yes <u>✓</u> No ____	Depth (inches):	<u>3</u>	Wetland Hydrology Present? Yes <u>✓</u> No ____	
Water Table Present?	Yes <u>✓</u> No ____	Depth (inches):	<u>0</u>		
Saturation Present?	Yes <u>✓</u> No ____	Depth (inches):	<u>0</u>		
(includes capillary fringe)					
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:					
Remarks:					

VEGETATION -- Use scientific names of plants.

Sampling Point: W-NWJ-05; PFO-1

Tree Stratum (Plot size: <u>30 ft</u>)	Absolute % Cover	Dominant Species?	Indicator Status																																									
1. <i>Acer rubrum</i>	40	Yes	FAC	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>7</u> (A) Total Number of Dominant Species Across All Strata: <u>7</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)																																								
2. <i>Fraxinus pennsylvanica</i>	25	Yes	FACW																																									
3.																																												
4.																																												
5.																																												
6.																																												
7.																																												
	65	= Total Cover		Prevalence Index worksheet: <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 40%; text-align: left;">Total % Cover of:</th> <th style="width: 10%;"></th> <th style="width: 10%;">Multiply By:</th> <th style="width: 10%;"></th> <th style="width: 10%;"></th> </tr> </thead> <tbody> <tr> <td>OBL species</td> <td>30</td> <td>x 1 =</td> <td>30</td> <td></td> </tr> <tr> <td>FACW species</td> <td>80</td> <td>x 2 =</td> <td>160</td> <td></td> </tr> <tr> <td>FAC species</td> <td>75</td> <td>x 3 =</td> <td>225</td> <td></td> </tr> <tr> <td>FACU species</td> <td>0</td> <td>x 4 =</td> <td>0</td> <td></td> </tr> <tr> <td>UPL species</td> <td>0</td> <td>x 5 =</td> <td>0</td> <td></td> </tr> <tr> <td>Column Totals</td> <td>185</td> <td>(A)</td> <td>415</td> <td>(B)</td> </tr> <tr> <td colspan="5">Prevalence Index = B/A = <u>2.2</u></td> </tr> </tbody> </table>	Total % Cover of:		Multiply By:			OBL species	30	x 1 =	30		FACW species	80	x 2 =	160		FAC species	75	x 3 =	225		FACU species	0	x 4 =	0		UPL species	0	x 5 =	0		Column Totals	185	(A)	415	(B)	Prevalence Index = B/A = <u>2.2</u>				
Total % Cover of:		Multiply By:																																										
OBL species	30	x 1 =	30																																									
FACW species	80	x 2 =	160																																									
FAC species	75	x 3 =	225																																									
FACU species	0	x 4 =	0																																									
UPL species	0	x 5 =	0																																									
Column Totals	185	(A)	415	(B)																																								
Prevalence Index = B/A = <u>2.2</u>																																												
Sapling/Shrub Stratum (Plot size: <u>15 ft</u>)																																												
1. <i>Acer rubrum</i>	25	Yes	FAC																																									
2. <i>Fraxinus pennsylvanica</i>	10	Yes	FACW																																									
3. <i>Rhamnus cathartica</i>	10	Yes	FAC																																									
4.																																												
5.																																												
6.																																												
7.																																												
	45	= Total Cover																																										
Herb Stratum (Plot size: <u>5 ft</u>)																																												
1. <i>Onoclea sensibilis</i>	45	Yes	FACW	Hydrophytic Vegetation Indicators: ___ 1- Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is >50% <input checked="" type="checkbox"/> 3 - Prevalence Index is ≤ 3.0 ¹ ___ 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) ___ Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic																																								
2. <i>Carex hystericina</i>	30	Yes	OBL																																									
3.																																												
4.																																												
5.																																												
6.																																												
7.																																												
8.																																												
9.																																												
10.																																												
11.																																												
12.																																												
	75	= Total Cover																																										
Woody Vine Stratum (Plot size: <u>30 ft</u>)																																												
1.				Definitions of Vegetation Strata: Tree – Woody plants 3 in. (7.6 cm) or more in diameter at 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 size, and woody plants less than 3.28 ft tall. Woody vines – All woody vines greater than 3.28 ft in height.																																								
2.																																												
3.																																												
4.																																												
	0	= Total Cover																																										
Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No ___																																												
Remarks: (Include photo numbers here or on a separate sheet.)																																												

SOIL

Sampling Point: W-NWJ-05; PFO-1

[illegible]

Hydrology Photos



Vegetation Photos



WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Trelina City/County: Waterloo, Seneca Sampling Date: 2019-June-25
 Applicant/Owner: NextEra State: NY Sampling Point: W-NWJ-05; UPL-1
 Investigator(s): Nick DeJohn, Nate Jones Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): Agricultural Field Local relief (concave, convex, none): Flat Slope (%): 0-1
 Subregion (LRR or MLRA): LRR R Lat: 42.9019712052 Long: -76.9310903829 Datum: WGS84
 Soil Map Unit Name: Stafford loamy fine sand NWI classification: _____
 Are climatic/hydrologic conditions on the site typical for this time of year? Yes ____ No ✓ (If no, explain in Remarks.)
 Are Vegetation ✓, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes ✓ No ____
 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?	Yes ____ No <u>✓</u>	
Hydric Soil Present?	Yes ____ No <u>✓</u>	Is the Sampled Area within a Wetland? Yes ____ No <u>✓</u>
Wetland Hydrology Present?	Yes <u>✓</u> No ____	If yes, optional Wetland Site ID: _____
Remarks: (Explain alternative procedures here or in a separate report) TRC coverype is UPL. Circumstances are not normal due to agricultural activities, Recent rain		

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u>			<u>Secondary Indicators (minimum of two required)</u>		
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)			
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)			
<input checked="" type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)	<input type="checkbox"/> Moss Trim Lines (B16)			
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Dry-Season Water Table (C2)			
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Crayfish Burrows (C8)			
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)			
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Stunted or Stressed Plants (D1)			
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Geomorphic Position (D2)			
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)			
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<input type="checkbox"/> Microtopographic Relief (D4)			
		<input type="checkbox"/> FAC-Neutral Test (D5)			
Field Observations: Surface Water Present? Yes ____ No <u>✓</u> Depth (inches): _____ Water Table Present? Yes ____ No <u>✓</u> Depth (inches): _____ Saturation Present? Yes <u>✓</u> No ____ Depth (inches): <u>0</u> (includes capillary fringe)			Wetland Hydrology Present? Yes <u>✓</u> No ____		
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:					
Remarks:					

VEGETATION -- Use scientific names of plants.

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

Tree Stratum (Plot size: <u>30 ft</u>)	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
	0	= Total Cover		
Sapling/Shrub Stratum (Plot size: <u>15 ft</u>)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
	0	= Total Cover		
Herb Stratum (Plot size: <u>5 ft</u>)				
1. <i>Poa pratensis</i>	40	Yes	FACU	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
11. _____	_____	_____	_____	
12. _____	_____	_____	_____	
	40	= Total Cover		
Woody Vine Stratum (Plot size: <u>30 ft</u>)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
	0	= Total Cover		

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)

Total Number of Dominant Species Across All Strata: 1 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 0 (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply By:
OBL species 0	x 1 = 0
FACW species 0	x 2 = 0
FAC species 0	x 3 = 0
FACU species 40	x 4 = 160
UPL species 0	x 5 = 0
Column Totals 40	(A) 160 (B)

Prevalence Index = B/A = 4

Hydrophytic Vegetation Indicators:

____ 1- Rapid Test for Hydrophytic Vegetation

____ 2 - Dominance Test is > 50%

____ 3 - Prevalence Index is ≤ 3.0¹

____ 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)

____ Problematic Hydrophytic Vegetation¹ (Explain)

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 at 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 size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? Yes ____ No ☒

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

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

[illegible]

Hydrology Photos



Vegetation Photos



Soil Photos



WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Trelina City/County: Waterloo, Seneca Sampling Date: 2019-June-25
 Applicant/Owner: NextEra State: NY Sampling Point: W-NWJ-06; PEM-1
 Investigator(s): Nick DeJohn, Nate Jones Section, Township, Range:
 Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none): Flat Slope (%): 0-1
 Subregion (LRR or MLRA): LRR L Lat: 42.9016522319 Long: -76.9310813305 Datum: WGS84
 Soil Map Unit Name: Cosad loamy fine sand NWI classification:
 Are climatic/hydrologic conditions on the site typical for this time of year? Yes ___ No ☒ (If no, explain in Remarks.)
 Are Vegetation __, Soil __, or Hydrology __ significantly disturbed? Are "Normal Circumstances" present? Yes ___ No ☒
 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?	Yes <input checked="" type="checkbox"/> No ___	Is the Sampled Area within a Wetland?	Yes <input checked="" type="checkbox"/> No ___
Hydric Soil Present?	Yes <input checked="" type="checkbox"/> No ___	If yes, optional Wetland Site ID:	W-NWJ-06
Wetland Hydrology Present?	Yes <input checked="" type="checkbox"/> No ___		
Remarks: (Explain alternative procedures here or in a separate report)			
TRC coverype is PEM. Circumstances are not normal due to agricultural activities, wetter than average			

HYDROLOGY

Wetland Hydrology Indicators:			
Primary Indicators (minimum of one is required; check all that apply)		Secondary Indicators (minimum of two required)	
<input checked="" type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)	
<input checked="" type="checkbox"/> High Water Table (A2)	<input checked="" type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)	
<input checked="" type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)	<input type="checkbox"/> Moss Trim Lines (B16)	
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Dry-Season Water Table (C2)	
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Crayfish Burrows (C8)	
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)	
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Stunted or Stressed Plants (D1)	
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Geomorphic Position (D2)	
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)	
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<input type="checkbox"/> Microtopographic Relief (D4)	
		<input checked="" type="checkbox"/> FAC-Neutral Test (D5)	
Field Observations:			
Surface Water Present?	Yes <input checked="" type="checkbox"/> No ___	Depth (inches):	2
Water Table Present?	Yes <input checked="" type="checkbox"/> No ___	Depth (inches):	0
Saturation Present?	Yes <input checked="" type="checkbox"/> No ___	Depth (inches):	0
(includes capillary fringe)			
Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No ___			
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:			
Remarks:			

Sampling Point: W-NWJ-06; PEM-1

Northcentral and Northeast Region -- Version 2.0 Adapted by TRC

SOIL

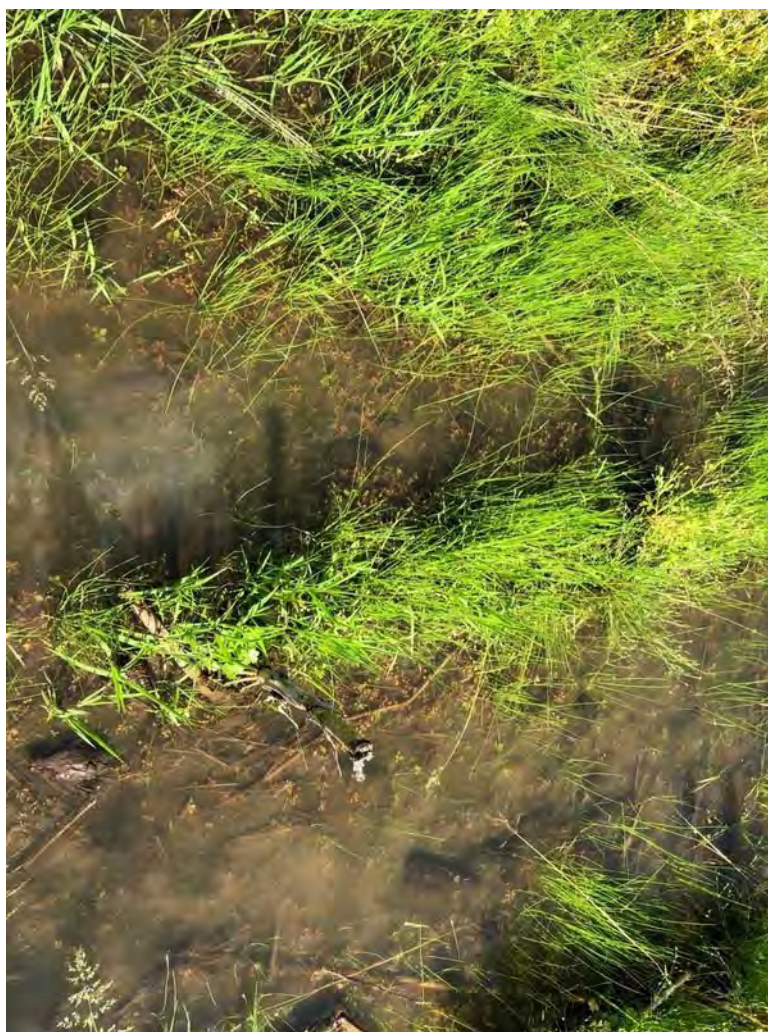
Sampling Point: W-NWJ-06; PEM-1

[illegible]

Hydrology Photos



Vegetation Photos



Soil Photos



WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Trelina City/County: Waterloo, Seneca Sampling Date: 2019-June-25
 Applicant/Owner: NextEra State: NY Sampling Point: W-NWJ-06; UPL-1
 Investigator(s): Nick DeJohn, Nate Jones Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): Agricultural Field Local relief (concave, convex, none): Flat Slope (%): 0-1
 Subregion (LRR or MLRA): LRR R Lat: 42.9015117092 Long: -76.9314306882 Datum: WGS84
 Soil Map Unit Name: Stafford loamy fine sand NWI classification: _____
 Are climatic/hydrologic conditions on the site typical for this time of year? Yes ____ No ✓ (If no, explain in Remarks.)
 Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes ____ No ✓
 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?	Yes ____ No <u>✓</u>	
Hydric Soil Present?	Yes ____ No <u>✓</u>	Is the Sampled Area within a Wetland? Yes ____ No <u>✓</u>
Wetland Hydrology Present?	Yes <u>✓</u> No ____	If yes, optional Wetland Site ID: _____
Remarks: (Explain alternative procedures here or in a separate report) TRC coverype is UPL. Circumstances are not normal due to agricultural activities, Recent rain		

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u>			<u>Secondary Indicators (minimum of two required)</u>		
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)			
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)			
<input checked="" type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)	<input type="checkbox"/> Moss Trim Lines (B16)			
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Dry-Season Water Table (C2)			
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Crayfish Burrows (C8)			
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)			
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Stunted or Stressed Plants (D1)			
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Geomorphic Position (D2)			
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)			
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<input type="checkbox"/> Microtopographic Relief (D4)			
		<input type="checkbox"/> FAC-Neutral Test (D5)			
Field Observations:					
Surface Water Present?	Yes ____ No <u>✓</u>	Depth (inches): _____	Wetland Hydrology Present? Yes <u>✓</u> No ____		
Water Table Present?	Yes ____ No <u>✓</u>	Depth (inches): _____			
Saturation Present?	Yes <u>✓</u> No ____	Depth (inches): <u>0</u>			
(includes capillary fringe)					
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:					
Remarks:					

VEGETATION -- Use scientific names of plants.

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

Tree Stratum (Plot size: <u>30 ft</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:			
1. _____	_____	_____	_____	Number of Dominant Species That Are OBL, FACW, or FAC:	<u>0</u>	(A)	
2. _____	_____	_____	_____	Total Number of Dominant Species Across All Strata:	<u>1</u>	(B)	
3. _____	_____	_____	_____	Percent of Dominant Species That Are OBL, FACW, or FAC:	<u>0</u>	(A/B)	
4. _____	_____	_____	_____	Prevalence Index worksheet:			
5. _____	_____	_____	_____	Total % Cover of:		Multiply By:	
6. _____	_____	_____	_____	OBL species	<u>0</u>	x 1 =	<u>0</u>
7. _____	_____	_____	_____	FACW species	<u>0</u>	x 2 =	<u>0</u>
	<u>0</u>	= Total Cover		FAC species	<u>0</u>	x 3 =	<u>0</u>
Sapling/Shrub Stratum (Plot size: <u>15 ft</u>)	_____	_____	_____	FACU species	<u>35</u>	x 4 =	<u>140</u>
1. _____	_____	_____	_____	UPL species	<u>0</u>	x 5 =	<u>0</u>
2. _____	_____	_____	_____	Column Totals	<u>35</u>	(A)	<u>140</u> (B)
3. _____	_____	_____	_____	Prevalence Index = B/A = <u>4</u>			
4. _____	_____	_____	_____	Hydrophytic Vegetation Indicators:			
5. _____	_____	_____	_____	____ 1- Rapid Test for Hydrophytic Vegetation			
6. _____	_____	_____	_____	____ 2 - Dominance Test is > 50%			
7. _____	_____	_____	_____	____ 3 - Prevalence Index is ≤ 3.0 ¹			
	<u>0</u>	= Total Cover		____ 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)			
Herb Stratum (Plot size: <u>5 ft</u>)	_____	_____	_____	____ Problematic Hydrophytic Vegetation ¹ (Explain)			
1. <i>Poa pratensis</i>	<u>35</u>	Yes	FACU	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic			
2. _____	_____	_____	_____	Definitions of Vegetation Strata:			
3. _____	_____	_____	_____	Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.			
4. _____	_____	_____	_____	Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.			
5. _____	_____	_____	_____	Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.			
6. _____	_____	_____	_____	Woody vines – All woody vines greater than 3.28 ft in height.			
7. _____	_____	_____	_____	Hydrophytic Vegetation Present? Yes ____ No <u>✓</u>			
8. _____	_____	_____	_____				
9. _____	_____	_____	_____				
10. _____	_____	_____	_____				
11. _____	_____	_____	_____				
12. _____	_____	_____	_____				
	<u>35</u>	= Total Cover					
Woody Vine Stratum (Plot size: <u>30 ft</u>)	_____	_____	_____				
1. _____	_____	_____	_____				
2. _____	_____	_____	_____				
3. _____	_____	_____	_____				
4. _____	_____	_____	_____				
	<u>0</u>	= Total Cover					
Remarks: (Include photo numbers here or on a separate sheet.)							

SOIL

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

[illegible]

Hydrology Photos



Vegetation Photos



Soil Photos



WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Trelina City/County: Waterloo, Seneca Sampling Date: 2019-June-25
 Applicant/Owner: NextEra State: NY Sampling Point: W-NWJ-07; PEM-1
 Investigator(s): Nick DeJohn, Nate Jones Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none): Concave Slope (%): 0-1
 Subregion (LRR or MLRA): LRR L Lat: 42.9006414581 Long: -76.9308627304 Datum: WGS84
 Soil Map Unit Name: Stafford loamy fine sand NWI classification: _____
 Are climatic/hydrologic conditions on the site typical for this time of year? Yes ____ No ✓ (If no, explain in Remarks.)
 Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes ____ No ✓
 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?	Yes <u>✓</u> No ____	
Hydric Soil Present?	Yes <u>✓</u> No ____	Is the Sampled Area within a Wetland? Yes <u>✓</u> No ____
Wetland Hydrology Present?	Yes <u>✓</u> No ____	If yes, optional Wetland Site ID: <u>W-NWJ-07</u>
Remarks: (Explain alternative procedures here or in a separate report) TRC coverype is PEM. Circumstances are not normal due to agricultural activities, Wetter than average year		

HYDROLOGY

Wetland Hydrology Indicators:			
<u>Primary Indicators (minimum of one is required; check all that apply)</u>		<u>Secondary Indicators (minimum of two required)</u>	
<input checked="" type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)	
<input checked="" type="checkbox"/> High Water Table (A2)	<input checked="" type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)	
<input checked="" type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)	<input type="checkbox"/> Moss Trim Lines (B16)	
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Dry-Season Water Table (C2)	
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Crayfish Burrows (C8)	
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)	
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input checked="" type="checkbox"/> Stunted or Stressed Plants (D1)	
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input checked="" type="checkbox"/> Geomorphic Position (D2)	
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)	
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<input type="checkbox"/> Microtopographic Relief (D4)	
		<input checked="" type="checkbox"/> FAC-Neutral Test (D5)	
Field Observations:			
Surface Water Present?	Yes <u>✓</u> No ____	Depth (inches):	<u>2</u>
Water Table Present?	Yes <u>✓</u> No ____	Depth (inches):	<u>0</u>
Saturation Present?	Yes <u>✓</u> No ____	Depth (inches):	<u>0</u>
(includes capillary fringe)		Wetland Hydrology Present? Yes <u>✓</u> No ____	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:			
Remarks:			

Sampling Point: W-NWJ-07; PEM-1

Tree Stratum (Plot size: 30 ft)			Absolute % Cover	Dominant Species?	Indicator Status
1.					
2.					
3.					
4.					
5.					
6.					
7.					
			0	= Total Cover	
Sapling/Shrub Stratum (Plot size: 15 ft)			Absolute % Cover	Dominant Species?	Indicator Status
1.					
2.					
3.					
4.					
5.					
6.					
7.					
			0	= Total Cover	
Herb Stratum (Plot size: 5 ft)			Absolute % Cover	Dominant Species?	Indicator Status
1.	<i>Juncus effusus</i>		45	Yes	OBL
2.	<i>Rumex crispus</i>		5	No	FAC
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
			50	= Total Cover	
Woody Vine Stratum (Plot size: 30 ft)			Absolute % Cover	Dominant Species?	Indicator Status
1.					
2.					
3.					
4.					
			0	= Total Cover	

Remarks: (Include photo numbers here or on a separate sheet.)

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)

Total Number of Dominant Species Across All Strata: 1 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply By:
OBL species 45	x 1 = 45
FACW species 0	x 2 = 0
FAC species 5	x 3 = 15
FACU species 0	x 4 = 0
UPL species 0	x 5 = 0
Column Totals 50	(A) 60 (B)
Prevalence Index = B/A = 1.2	

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 at 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 size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? Yes ☒ No ☐

SOIL

Sampling Point: W-NWJ-07; PEM-1

[illegible]



Vegetation Photos



Soil Photos



WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Trelina City/County: Waterloo, Seneca Sampling Date: 2019-June-25
 Applicant/Owner: NextEra State: NY Sampling Point: W-NWJ-07; UPL-1
 Investigator(s): Nick DeJohn, Nate Jones Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): Agricultural Field Local relief (concave, convex, none): Flat Slope (%): 0-1
 Subregion (LRR or MLRA): LRR L Lat: 42.9004234868 Long: -76.931050066 Datum: WGS84
 Soil Map Unit Name: Stafford loamy fine sand NWI classification: _____
 Are climatic/hydrologic conditions on the site typical for this time of year? Yes ____ No ✓ (If no, explain in Remarks.)
 Are Vegetation ✓, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes ____ No ✓
 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?	Yes <u>✓</u> No ____	
Hydric Soil Present?	Yes ____ No <u>✓</u>	Is the Sampled Area within a Wetland? Yes ____ No <u>✓</u>
Wetland Hydrology Present?	Yes <u>✓</u> No ____	If yes, optional Wetland Site ID: _____
Remarks: (Explain alternative procedures here or in a separate report) TRC coverype is UPL. Circumstances are not normal due to agricultural activities, Recent rain		

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u>				<u>Secondary Indicators (minimum of two required)</u>	
<input checked="" type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)			
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)			
<input checked="" type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)	<input type="checkbox"/> Moss Trim Lines (B16)			
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Dry-Season Water Table (C2)			
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Crayfish Burrows (C8)			
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)			
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Stunted or Stressed Plants (D1)			
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Geomorphic Position (D2)			
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)			
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<input type="checkbox"/> Microtopographic Relief (D4)			
		<input type="checkbox"/> FAC-Neutral Test (D5)			
Field Observations:					
Surface Water Present?	Yes <u>✓</u> No ____	Depth (inches):	<u>1</u>	Wetland Hydrology Present? Yes <u>✓</u> No ____	
Water Table Present?	Yes ____ No <u>✓</u>	Depth (inches):			
Saturation Present?	Yes <u>✓</u> No ____	Depth (inches):	<u>0</u>		
(includes capillary fringe)					
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:					
Remarks:					

VEGETATION -- Use scientific names of plants.

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

Tree Stratum (Plot size: <u>30 ft</u>)	Absolute % Cover	Dominant Species?	Indicator Status																																									
1. _____	_____	_____	_____	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)																																								
2. _____	_____	_____	_____																																									
3. _____	_____	_____	_____																																									
4. _____	_____	_____	_____																																									
5. _____	_____	_____	_____																																									
6. _____	_____	_____	_____																																									
7. _____	_____	_____	_____																																									
	<u>0</u>	= Total Cover		Prevalence Index worksheet: <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 40%; text-align: left;">Total % Cover of:</th> <th style="width: 10%;"></th> <th style="width: 10%;">Multiply By:</th> <th style="width: 10%;"></th> <th style="width: 10%;"></th> </tr> </thead> <tbody> <tr><td>OBL species</td><td><u>0</u></td><td>x 1 =</td><td><u>0</u></td><td></td></tr> <tr><td>FACW species</td><td><u>0</u></td><td>x 2 =</td><td><u>0</u></td><td></td></tr> <tr><td>FAC species</td><td><u>10</u></td><td>x 3 =</td><td><u>30</u></td><td></td></tr> <tr><td>FACU species</td><td><u>0</u></td><td>x 4 =</td><td><u>0</u></td><td></td></tr> <tr><td>UPL species</td><td><u>0</u></td><td>x 5 =</td><td><u>0</u></td><td></td></tr> <tr><td>Column Totals</td><td><u>10</u></td><td>(A)</td><td><u>30</u></td><td>(B)</td></tr> <tr><td colspan="5">Prevalence Index = B/A = <u>3</u></td></tr> </tbody> </table>	Total % Cover of:		Multiply By:			OBL species	<u>0</u>	x 1 =	<u>0</u>		FACW species	<u>0</u>	x 2 =	<u>0</u>		FAC species	<u>10</u>	x 3 =	<u>30</u>		FACU species	<u>0</u>	x 4 =	<u>0</u>		UPL species	<u>0</u>	x 5 =	<u>0</u>		Column Totals	<u>10</u>	(A)	<u>30</u>	(B)	Prevalence Index = B/A = <u>3</u>				
Total % Cover of:		Multiply By:																																										
OBL species	<u>0</u>	x 1 =	<u>0</u>																																									
FACW species	<u>0</u>	x 2 =	<u>0</u>																																									
FAC species	<u>10</u>	x 3 =	<u>30</u>																																									
FACU species	<u>0</u>	x 4 =	<u>0</u>																																									
UPL species	<u>0</u>	x 5 =	<u>0</u>																																									
Column Totals	<u>10</u>	(A)	<u>30</u>	(B)																																								
Prevalence Index = B/A = <u>3</u>																																												
Sapling/Shrub Stratum (Plot size: <u>15 ft</u>)																																												
1. _____	_____	_____	_____																																									
2. _____	_____	_____	_____																																									
3. _____	_____	_____	_____																																									
4. _____	_____	_____	_____																																									
5. _____	_____	_____	_____																																									
6. _____	_____	_____	_____																																									
7. _____	_____	_____	_____																																									
	<u>0</u>	= Total Cover																																										
Herb Stratum (Plot size: <u>5 ft</u>)																																												
1. <i>Juncus tenuis</i>	<u>10</u>	<u>Yes</u>	<u>FAC</u>																																									
2. _____	_____	_____	_____																																									
3. _____	_____	_____	_____																																									
4. _____	_____	_____	_____																																									
5. _____	_____	_____	_____																																									
6. _____	_____	_____	_____																																									
7. _____	_____	_____	_____																																									
8. _____	_____	_____	_____																																									
9. _____	_____	_____	_____																																									
10. _____	_____	_____	_____																																									
11. _____	_____	_____	_____																																									
12. _____	_____	_____	_____																																									
	<u>10</u>	= Total Cover																																										
Woody Vine Stratum (Plot size: <u>30 ft</u>)																																												
1. _____	_____	_____	_____																																									
2. _____	_____	_____	_____																																									
3. _____	_____	_____	_____																																									
4. _____	_____	_____	_____																																									
	<u>0</u>	= Total Cover																																										

Remarks: (Include photo numbers here or on a separate sheet.)

Active agricultural field

SOIL

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

[illegible]

Hydrology Photos



Vegetation Photos



Soil Photos



WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Trelina City/County: Waterloo, Seneca Sampling Date: 2019-June-25
 Applicant/Owner: NextEra State: NY Sampling Point: W-NWJ-08; PEM-1
 Investigator(s): Nick DeJohn, Nate Jones Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none): Concave Slope (%): 0-1
 Subregion (LRR or MLRA): LRR L Lat: 42.9003247898 Long: -76.9304666017 Datum: WGS84
 Soil Map Unit Name: Cosad loamy fine sand NWI classification: _____
 Are climatic/hydrologic conditions on the site typical for this time of year? Yes ____ No ✓ (If no, explain in Remarks.)
 Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes ____ No ✓
 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?	Yes <u>✓</u> No ____	
Hydric Soil Present?	Yes <u>✓</u> No ____	Is the Sampled Area within a Wetland? Yes <u>✓</u> No ____
Wetland Hydrology Present?	Yes <u>✓</u> No ____	If yes, optional Wetland Site ID: <u>W-NWJ-08</u>
Remarks: (Explain alternative procedures here or in a separate report) TRC coverype is PEM. Circumstances are not normal due to agricultural activities, Wetter than average year		

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u>				<u>Secondary Indicators (minimum of two required)</u>	
<input checked="" type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)			
<input checked="" type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)			
<input checked="" type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)	<input type="checkbox"/> Moss Trim Lines (B16)			
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Dry-Season Water Table (C2)			
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Crayfish Burrows (C8)			
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)			
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Stunted or Stressed Plants (D1)			
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Geomorphic Position (D2)			
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)			
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<input type="checkbox"/> Microtopographic Relief (D4)			
		<input checked="" type="checkbox"/> FAC-Neutral Test (D5)			
Field Observations:					
Surface Water Present?	Yes <u>✓</u> No ____	Depth (inches):	<u>1</u>	Wetland Hydrology Present? Yes <u>✓</u> No ____	
Water Table Present?	Yes <u>✓</u> No ____	Depth (inches):	<u>0</u>		
Saturation Present?	Yes <u>✓</u> No ____	Depth (inches):	<u>0</u>		
(includes capillary fringe)					
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:					
Remarks:					

VEGETATION -- Use scientific names of plants.

Sampling Point: W-NWJ-08; PEM-1

Tree Stratum (Plot size: <u>30 ft</u>)	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
	0	= Total Cover		
Sapling/Shrub Stratum (Plot size: <u>15 ft</u>)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
	0	= Total Cover		
Herb Stratum (Plot size: <u>5 ft</u>)				
1. <i>Phalaris arundinacea</i>	40	Yes	FACW	
2. <i>Scirpus atrovirens</i>	25	Yes	OBL	
3. <i>Onoclea sensibilis</i>	10	No	FACW	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
11. _____	_____	_____	_____	
12. _____	_____	_____	_____	
	75	= Total Cover		
Woody Vine Stratum (Plot size: <u>30 ft</u>)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
	0	= Total Cover		

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)

Total Number of Dominant Species Across All Strata: 2 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply By:
OBL species 25	x 1 = 25
FACW species 50	x 2 = 100
FAC species 0	x 3 = 0
FACU species 0	x 4 = 0
UPL species 0	x 5 = 0
Column Totals 75	(A) 125 (B)

Prevalence Index = B/A = 1.7

Hydrophytic Vegetation Indicators:

☒ 1 - Rapid Test for Hydrophytic Vegetation

☒ 2 - Dominance Test is >50%

☒ 3 - Prevalence Index is ≤ 3.0¹

____ 4 - Morphological Adaptations¹ (Provide 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 at 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 size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? Yes ☒ No ____

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: W-NWJ-08; PEM-1

[illegible]

Hydrology Photos



Vegetation Photos



Soil Photos



WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Trelina City/County: Waterloo, Seneca Sampling Date: 2019-June-25
 Applicant/Owner: NextEra State: NY Sampling Point: W-NWJ-08; PFO-1
 Investigator(s): Nick DeJohn, Nate Jones Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none): Concave Slope (%): 2-5
 Subregion (LRR or MLRA): LRR R Lat: 42.9002933158 Long: -76.9303294738 Datum: WGS84
 Soil Map Unit Name: Cosad loamy fine sand NWI classification: _____
 Are climatic/hydrologic conditions on the site typical for this time of year? Yes ____ No ✓ (If no, explain in Remarks.)
 Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes ✓ No ____
 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?	Yes <u>✓</u> No ____	
Hydric Soil Present?	Yes <u>✓</u> No ____	Is the Sampled Area within a Wetland? Yes <u>✓</u> No ____
Wetland Hydrology Present?	Yes <u>✓</u> No ____	If yes, optional Wetland Site ID: <u>W-NWJ-08</u>
Remarks: (Explain alternative procedures here or in a separate report) TRC coverype is PFO. Wetter than average year		

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u>				<u>Secondary Indicators (minimum of two required)</u>	
<input checked="" type="checkbox"/> Surface Water (A1)	<input checked="" type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)			
<input checked="" type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)			
<input checked="" type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)	<input type="checkbox"/> Moss Trim Lines (B16)			
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Dry-Season Water Table (C2)			
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Crayfish Burrows (C8)			
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)			
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Stunted or Stressed Plants (D1)			
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Geomorphic Position (D2)			
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)			
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<input type="checkbox"/> Microtopographic Relief (D4)			
		<input checked="" type="checkbox"/> FAC-Neutral Test (D5)			
Field Observations:					
Surface Water Present?	Yes <u>✓</u> No ____	Depth (inches):	<u>3</u>	Wetland Hydrology Present? Yes <u>✓</u> No ____	
Water Table Present?	Yes <u>✓</u> No ____	Depth (inches):	<u>0</u>		
Saturation Present?	Yes <u>✓</u> No ____	Depth (inches):	<u>0</u>		
(includes capillary fringe)					
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:					
Remarks:					

VEGETATION -- Use scientific names of plants.

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

Tree Stratum (Plot size: <u>30 ft</u>)				Dominance Test worksheet:	
	Absolute % Cover	Dominant Species?	Indicator Status		
1. <i>Acer rubrum</i>	60	Yes	FAC	Number of Dominant Species That Are OBL, FACW, or FAC:	5 (A)
2. <i>Fraxinus pennsylvanica</i>	20	Yes	FACW	Total Number of Dominant Species Across All Strata:	5 (B)
3. _____	_____	_____	_____	Percent of Dominant Species That Are OBL, FACW, or FAC:	100 (A/B)
4. _____	_____	_____	_____	Prevalence Index worksheet:	
5. _____	_____	_____	_____	Total % Cover of:	Multiply By:
6. _____	_____	_____	_____	OBL species	5 x 1 = 5
7. _____	_____	_____	_____	FACW species	37 x 2 = 74
	80 = Total Cover			FAC species	118 x 3 = 354
Sapling/Shrub Stratum (Plot size: <u>15 ft</u>)				FACU species	0 x 4 = 0
1. <i>Rhamnus cathartica</i>	35	Yes	FAC	UPL species	0 x 5 = 0
2. _____	_____	_____	_____	Column Totals	160 (A) 433 (B)
3. _____	_____	_____	_____	Prevalence Index = B/A = <u>2.7</u>	
4. _____	_____	_____	_____	Hydrophytic Vegetation Indicators:	
5. _____	_____	_____	_____	____ 1- Rapid Test for Hydrophytic Vegetation	
6. _____	_____	_____	_____	<input checked="" type="checkbox"/> 2 - Dominance Test is >50%	
7. _____	_____	_____	_____	<input checked="" type="checkbox"/> 3 - Prevalence Index is ≤ 3.0 ¹	
	35 = Total Cover			____ 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)	
Herb Stratum (Plot size: <u>5 ft</u>)				____ Problematic Hydrophytic Vegetation ¹ (Explain)	
1. <i>Toxicodendron radicans</i>	20	Yes	FAC	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic	
2. <i>Onoclea sensibilis</i>	17	Yes	FACW	Definitions of Vegetation Strata:	
3. <i>Carex stipata</i>	5	No	OBL	Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.	
4. <i>Rhamnus cathartica</i>	3	No	FAC	Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.	
5. _____	_____	_____	_____	Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.	
6. _____	_____	_____	_____	Woody vines – All woody vines greater than 3.28 ft in height.	
7. _____	_____	_____	_____	Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No _____	
8. _____	_____	_____	_____		
9. _____	_____	_____	_____		
10. _____	_____	_____	_____		
11. _____	_____	_____	_____		
12. _____	_____	_____	_____		
	45 = Total Cover				
Woody Vine Stratum (Plot size: <u>30 ft</u>)					
1. _____	_____	_____	_____		
2. _____	_____	_____	_____		
3. _____	_____	_____	_____		
4. _____	_____	_____	_____		
	0 = Total Cover				
Remarks: (Include photo numbers here or on a separate sheet.)					

SOIL

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

[illegible]

Hydrology Photos



Vegetation Photos



Soil Photos



WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Trelina City/County: Waterloo, Seneca Sampling Date: 2019-June-25
 Applicant/Owner: NextEra State: NY Sampling Point: W-NWJ-08; UPL-1
 Investigator(s): Nick DeJohn, Nate Jones Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): Agricultural Field Local relief (concave, convex, none): Flat Slope (%): 0-1
 Subregion (LRR or MLRA): LRR L Lat: 42.9002680025 Long: -76.930542877 Datum: WGS84
 Soil Map Unit Name: Stafford loamy fine sand NWI classification: _____
 Are climatic/hydrologic conditions on the site typical for this time of year? Yes ____ No ✓ (If no, explain in Remarks.)
 Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes ____ No ✓
 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?	Yes ____ No <u>✓</u>	
Hydric Soil Present?	Yes ____ No <u>✓</u>	Is the Sampled Area within a Wetland? Yes ____ No <u>✓</u>
Wetland Hydrology Present?	Yes ____ No <u>✓</u>	If yes, optional Wetland Site ID: _____
Remarks: (Explain alternative procedures here or in a separate report) TRC coverype is UPL. Circumstances are not normal due to agricultural activities, Recent rain		

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u>			<u>Secondary Indicators (minimum of two required)</u>		
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)			
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)			
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)	<input type="checkbox"/> Moss Trim Lines (B16)			
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Dry-Season Water Table (C2)			
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Crayfish Burrows (C8)			
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)			
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Stunted or Stressed Plants (D1)			
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Geomorphic Position (D2)			
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)			
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<input type="checkbox"/> Microtopographic Relief (D4)			
		<input type="checkbox"/> FAC-Neutral Test (D5)			
Field Observations: Surface Water Present? Yes ____ No <u>✓</u> Depth (inches): _____ Water Table Present? Yes ____ No <u>✓</u> Depth (inches): _____ Saturation Present? Yes ____ No <u>✓</u> Depth (inches): _____ (includes capillary fringe)			Wetland Hydrology Present? Yes ____ No <u>✓</u>		
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: 					
Remarks:					

VEGETATION -- Use scientific names of plants.

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

Tree Stratum (Plot size: <u>30 ft</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:				
1. _____	_____	_____	_____	Number of Dominant Species That Are OBL, FACW, or FAC:	0	(A)		
2. _____	_____	_____	_____	Total Number of Dominant Species Across All Strata:	2	(B)		
3. _____	_____	_____	_____	Percent of Dominant Species That Are OBL, FACW, or FAC:	0	(A/B)		
4. _____	_____	_____	_____	Prevalence Index worksheet:				
5. _____	_____	_____	_____	<u>Total % Cover of:</u>		<u>Multiply By:</u>		
6. _____	_____	_____	_____	OBL species	0	x 1 =	0	
7. _____	_____	_____	_____	FACW species	0	x 2 =	0	
	0	= Total Cover			FAC species	0	x 3 =	0
Sapling/Shrub Stratum (Plot size: <u>15 ft</u>)				FACU species	75	x 4 =	300	
1. _____	_____	_____	_____	UPL species	20	x 5 =	100	
2. _____	_____	_____	_____	Column Totals	95	(A)	400 (B)	
3. _____	_____	_____	_____	Prevalence Index = B/A = <u>4.2</u>				
4. _____	_____	_____	_____	Hydrophytic Vegetation Indicators:				
5. _____	_____	_____	_____	____ 1- Rapid Test for Hydrophytic Vegetation				
6. _____	_____	_____	_____	____ 2 - Dominance Test is > 50%				
7. _____	_____	_____	_____	____ 3 - Prevalence Index is ≤ 3.0 ¹				
	0	= Total Cover			____ 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)			
Herb Stratum (Plot size: <u>5 ft</u>)				____ Problematic Hydrophytic Vegetation ¹ (Explain)				
1. <i>Trifolium repens</i>	60	Yes	FACU	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic				
2. <i>Leucanthemum vulgare</i>	20	Yes	UPL	Definitions of Vegetation Strata:				
3. <i>Dactylis glomerata</i>	15	No	FACU	Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.				
4. _____	_____	_____	_____	Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.				
5. _____	_____	_____	_____	Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.				
6. _____	_____	_____	_____	Woody vines – All woody vines greater than 3.28 ft in height.				
7. _____	_____	_____	_____	Hydrophytic Vegetation Present? Yes ____ No <u>✓</u>				
8. _____	_____	_____	_____					
9. _____	_____	_____	_____					
10. _____	_____	_____	_____					
11. _____	_____	_____	_____					
12. _____	_____	_____	_____					
	95	= Total Cover						
Woody Vine Stratum (Plot size: <u>30 ft</u>)								
1. _____	_____	_____	_____					
2. _____	_____	_____	_____					
3. _____	_____	_____	_____					
4. _____	_____	_____	_____					
	0	= Total Cover						
Remarks: (Include photo numbers here or on a separate sheet.)								

SOIL

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

[illegible]

Hydrology Photos



Vegetation Photos



Soil Photos



WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Trelina City/County: Waterloo, Seneca Sampling Date: 2019-June-26
 Applicant/Owner: NextEra State: NY Sampling Point: W-NWJ-22; PEM-1
 Investigator(s): Nick DeJohn, Nate Jones Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none): Concave Slope (%): 0-1
 Subregion (LRR or MLRA): LRR L Lat: 42.8950068664 Long: -76.9248021943 Datum: WGS84
 Soil Map Unit Name: Schoharie silty clay loam, 0 to 2 percent slopes NWI classification: _____
 Are climatic/hydrologic conditions on the site typical for this time of year? Yes ____ No ☒ (If no, explain in Remarks.)
 Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes ☒ No ____
 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?	Yes <input checked="" type="checkbox"/> No ____	
Hydric Soil Present?	Yes <input checked="" type="checkbox"/> No ____	Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No ____
Wetland Hydrology Present?	Yes <input checked="" type="checkbox"/> No ____	If yes, optional Wetland Site ID: <u>W-NWJ-22</u>
Remarks: (Explain alternative procedures here or in a separate report)		
<p>TRC coverype is PEM. Wetter than average year</p>		

HYDROLOGY

Wetland Hydrology Indicators:			
<u>Primary Indicators (minimum of one is required; check all that apply)</u>		<u>Secondary Indicators (minimum of two required)</u>	
<input checked="" type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)	
<input checked="" type="checkbox"/> High Water Table (A2)	<input checked="" type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)	
<input checked="" type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)	<input type="checkbox"/> Moss Trim Lines (B16)	
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Dry-Season Water Table (C2)	
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Crayfish Burrows (C8)	
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)	
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Stunted or Stressed Plants (D1)	
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Geomorphic Position (D2)	
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)	
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<input type="checkbox"/> Microtopographic Relief (D4)	
		<input checked="" type="checkbox"/> FAC-Neutral Test (D5)	
Field Observations:			
Surface Water Present?	Yes <input checked="" type="checkbox"/> No ____	Depth (inches):	<u>4</u>
Water Table Present?	Yes <input checked="" type="checkbox"/> No ____	Depth (inches):	<u>0</u>
Saturation Present?	Yes <input checked="" type="checkbox"/> No ____	Depth (inches):	<u>0</u>
(includes capillary fringe)		Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No ____	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:			
Remarks:			

VEGETATION -- Use scientific names of plants.

Sampling Point: W-NWJ-22; PEM-1

Tree Stratum (Plot size: <u>30 ft</u>)	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
	0	= Total Cover		
Sapling/Shrub Stratum (Plot size: <u>15 ft</u>)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
	0	= Total Cover		
Herb Stratum (Plot size: <u>5 ft</u>)				
1. <i>Phalaris arundinacea</i>	35	Yes	FACW	
2. <i>Juncus effusus</i>	25	Yes	OBL	
3. <i>Typha latifolia</i>	8	No	OBL	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
11. _____	_____	_____	_____	
12. _____	_____	_____	_____	
	68	= Total Cover		
Woody Vine Stratum (Plot size: <u>30 ft</u>)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
	0	= Total Cover		

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)

Total Number of Dominant Species Across All Strata: 2 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply By:
OBL species 33	x 1 = 33
FACW species 35	x 2 = 70
FAC species 0	x 3 = 0
FACU species 0	x 4 = 0
UPL species 0	x 5 = 0
Column Totals 68	(A) 103 (B)

Prevalence Index = B/A = 1.5

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 at 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 size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? Yes ☒ No ____

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: W-NWJ-22; PEM-1

[illegible]

Hydrology Photos



Vegetation Photos



Soil Photos



WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Trelina City/County: Waterloo, Seneca Sampling Date: 2019-June-25
 Applicant/Owner: NextEra State: NY Sampling Point: W-NWJ-09; PFO-1
 Investigator(s): Nick DeJohn, Nate Jones Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none): Concave Slope (%): 2-5
 Subregion (LRR or MLRA): LRR R Lat: 42.9000195628 Long: -76.9307697751 Datum: WGS84
 Soil Map Unit Name: Claverack loamy fine sand, 2 to 6 percent slopes NWI classification: _____
 Are climatic/hydrologic conditions on the site typical for this time of year? Yes ____ No ☒ (If no, explain in Remarks.)
 Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes ☒ No ____
 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?	Yes <input checked="" type="checkbox"/> No ____	
Hydric Soil Present?	Yes <input checked="" type="checkbox"/> No ____	Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No ____
Wetland Hydrology Present?	Yes <input checked="" type="checkbox"/> No ____	If yes, optional Wetland Site ID: <u>W-NWJ-09</u>
Remarks: (Explain alternative procedures here or in a separate report) TRC coverype is PFO. Trees growing outside of wetland. Looks like PFO on aerial		

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u>			<u>Secondary Indicators (minimum of two required)</u>		
<input type="checkbox"/> Surface Water (A1)	<input checked="" type="checkbox"/> Water-Stained Leaves (B9)		<input type="checkbox"/> Surface Soil Cracks (B6)		
<input checked="" type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)		<input type="checkbox"/> Drainage Patterns (B10)		
<input checked="" type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)		<input type="checkbox"/> Moss Trim Lines (B16)		
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)		<input type="checkbox"/> Dry-Season Water Table (C2)		
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)		<input type="checkbox"/> Crayfish Burrows (C8)		
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)		<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)		
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)		<input type="checkbox"/> Stunted or Stressed Plants (D1)		
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)		<input type="checkbox"/> Geomorphic Position (D2)		
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)		<input type="checkbox"/> Shallow Aquitard (D3)		
<input checked="" type="checkbox"/> Sparsely Vegetated Concave Surface (B8)			<input type="checkbox"/> Microtopographic Relief (D4)		
<input type="checkbox"/> FAC-Neutral Test (D5)					
Field Observations: Surface Water Present? Yes ____ No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present? Yes <input checked="" type="checkbox"/> No ____ Depth (inches): <u>4</u> Saturation Present? Yes <input checked="" type="checkbox"/> No ____ Depth (inches): <u>0</u> (includes capillary fringe)			Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No ____		
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: 					
Remarks: 					

VEGETATION -- Use scientific names of plants.

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

Tree Stratum (Plot size: <u>30 ft</u>)				Dominance Test worksheet:	
	Absolute % Cover	Dominant Species?	Indicator Status		
1. <i>Acer rubrum</i>	25	Yes	FAC	Number of Dominant Species That Are OBL, FACW, or FAC:	3 (A)
2. <i>Fraxinus pennsylvanica</i>	10	Yes	FACW	Total Number of Dominant Species Across All Strata:	4 (B)
3. _____	_____	_____	_____	Percent of Dominant Species That Are OBL, FACW, or FAC:	75 (A/B)
4. _____	_____	_____	_____		
5. _____	_____	_____	_____		
6. _____	_____	_____	_____		
7. _____	_____	_____	_____		
	35 = Total Cover				
Sapling/Shrub Stratum (Plot size: <u>15 ft</u>)				Prevalence Index worksheet:	
				Total % Cover of:	Multiply By:
1. _____	_____	_____	_____	OBL species	0 x 1 = 0
2. _____	_____	_____	_____	FACW species	10 x 2 = 20
3. _____	_____	_____	_____	FAC species	30 x 3 = 90
4. _____	_____	_____	_____	FACU species	5 x 4 = 20
5. _____	_____	_____	_____	UPL species	0 x 5 = 0
6. _____	_____	_____	_____	Column Totals	45 (A) 130 (B)
7. _____	_____	_____	_____	Prevalence Index = B/A = 2.9	
	0 = Total Cover				
Herb Stratum (Plot size: <u>5 ft</u>)				Hydrophytic Vegetation Indicators:	
1. <i>Toxicodendron radicans</i>	5	Yes	FAC	____ 1- Rapid Test for Hydrophytic Vegetation	
2. <i>Solidago caesia</i>	5	Yes	FACU	<input checked="" type="checkbox"/> 2 - Dominance Test is >50%	
3. _____	_____	_____	_____	<input checked="" type="checkbox"/> 3 - Prevalence Index is ≤ 3.0 ¹	
4. _____	_____	_____	_____	____ 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)	
5. _____	_____	_____	_____	____ Problematic Hydrophytic Vegetation ¹ (Explain)	
6. _____	_____	_____	_____	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic	
7. _____	_____	_____	_____		
8. _____	_____	_____	_____		
9. _____	_____	_____	_____		
10. _____	_____	_____	_____		
11. _____	_____	_____	_____		
12. _____	_____	_____	_____		
	10 = Total Cover				
Woody Vine Stratum (Plot size: <u>30 ft</u>)				Definitions of Vegetation Strata:	
1. _____	_____	_____	_____	Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.	
2. _____	_____	_____	_____	Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.	
3. _____	_____	_____	_____	Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.	
4. _____	_____	_____	_____	Woody vines – All woody vines greater than 3.28 ft in height.	
	0 = Total Cover			Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No _____	

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

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

[illegible]

Hydrology Photos



Vegetation Photos



Soil Photos



WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Trelina City/County: Waterloo, Seneca Sampling Date: 2019-June-25
 Applicant/Owner: NextEra State: NY Sampling Point: W-NWJ-09; UPL-1
 Investigator(s): Nick DeJohn, Nate Jones Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): Flat Local relief (concave, convex, none): Flat Slope (%): 0-1
 Subregion (LRR or MLRA): LRR L Lat: 42.8993530758 Long: -76.9311614615 Datum: WGS84
 Soil Map Unit Name: Claverack loamy fine sand, 2 to 6 percent slopes NWI classification: _____
 Are climatic/hydrologic conditions on the site typical for this time of year? Yes ____ No ✓ (If no, explain in Remarks.)
 Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes ✓ No ____
 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?	Yes ____ No <u>✓</u>	
Hydric Soil Present?	Yes ____ No <u>✓</u>	Is the Sampled Area within a Wetland? Yes ____ No <u>✓</u>
Wetland Hydrology Present?	Yes <u>✓</u> No ____	If yes, optional Wetland Site ID: _____
Remarks: (Explain alternative procedures here or in a separate report) TRC coverype is UPL. Recent rain		

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u>			<u>Secondary Indicators (minimum of two required)</u>		
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)			
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)			
<input checked="" type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)	<input type="checkbox"/> Moss Trim Lines (B16)			
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Dry-Season Water Table (C2)			
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Crayfish Burrows (C8)			
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)			
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Stunted or Stressed Plants (D1)			
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Geomorphic Position (D2)			
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)			
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<input type="checkbox"/> Microtopographic Relief (D4)			
		<input type="checkbox"/> FAC-Neutral Test (D5)			
Field Observations: Surface Water Present? Yes ____ No <u>✓</u> Depth (inches): _____ Water Table Present? Yes ____ No <u>✓</u> Depth (inches): _____ Saturation Present? Yes <u>✓</u> No ____ Depth (inches): <u>0</u> (includes capillary fringe)			Wetland Hydrology Present? Yes <u>✓</u> No ____		
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:					
Remarks:					

VEGETATION -- Use scientific names of plants.

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

Tree Stratum (Plot size: <u>30 ft</u>)	Absolute % Cover	Dominant Species?	Indicator Status																																									
1. <i>Acer rubrum</i>	45	Yes	FAC	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>4</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50</u> (A/B)																																								
2. <i>Not Listed Plant</i>	20	Yes	UPL																																									
3. _____	_____	_____	_____																																									
4. _____	_____	_____	_____																																									
5. _____	_____	_____	_____																																									
6. _____	_____	_____	_____																																									
7. _____	_____	_____	_____																																									
	65	= Total Cover		Prevalence Index worksheet: <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 30%;">Total % Cover of:</th> <th style="width: 10%;"></th> <th style="width: 10%;">Multiply By:</th> <th style="width: 10%;"></th> <th style="width: 10%;"></th> </tr> </thead> <tbody> <tr> <td>OBL species</td> <td>0</td> <td>x 1 =</td> <td>0</td> <td></td> </tr> <tr> <td>FACW species</td> <td>50</td> <td>x 2 =</td> <td>100</td> <td></td> </tr> <tr> <td>FAC species</td> <td>45</td> <td>x 3 =</td> <td>135</td> <td></td> </tr> <tr> <td>FACU species</td> <td>35</td> <td>x 4 =</td> <td>140</td> <td></td> </tr> <tr> <td>UPL species</td> <td>20</td> <td>x 5 =</td> <td>100</td> <td></td> </tr> <tr> <td>Column Totals</td> <td>150</td> <td>(A)</td> <td>475</td> <td>(B)</td> </tr> <tr> <td colspan="5">Prevalence Index = B/A = <u>3.2</u></td> </tr> </tbody> </table>	Total % Cover of:		Multiply By:			OBL species	0	x 1 =	0		FACW species	50	x 2 =	100		FAC species	45	x 3 =	135		FACU species	35	x 4 =	140		UPL species	20	x 5 =	100		Column Totals	150	(A)	475	(B)	Prevalence Index = B/A = <u>3.2</u>				
Total % Cover of:		Multiply By:																																										
OBL species	0	x 1 =	0																																									
FACW species	50	x 2 =	100																																									
FAC species	45	x 3 =	135																																									
FACU species	35	x 4 =	140																																									
UPL species	20	x 5 =	100																																									
Column Totals	150	(A)	475	(B)																																								
Prevalence Index = B/A = <u>3.2</u>																																												
Sapling/Shrub Stratum (Plot size: <u>15 ft</u>)																																												
1. _____	_____	_____	_____																																									
2. _____	_____	_____	_____																																									
3. _____	_____	_____	_____																																									
4. _____	_____	_____	_____																																									
5. _____	_____	_____	_____																																									
6. _____	_____	_____	_____																																									
7. _____	_____	_____	_____																																									
	0	= Total Cover																																										
Herb Stratum (Plot size: <u>5 ft</u>)																																												
1. <i>Impatiens capensis</i>	50	Yes	FACW	Hydrophytic Vegetation Indicators: ____ 1- Rapid Test for Hydrophytic Vegetation ____ 2 - Dominance Test is > 50% ____ 3 - Prevalence Index is ≤ 3.0 ¹ ____ 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) ____ Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic																																								
2. <i>Alliaria petiolata</i>	35	Yes	FACU																																									
3. _____	_____	_____	_____																																									
4. _____	_____	_____	_____																																									
5. _____	_____	_____	_____																																									
6. _____	_____	_____	_____																																									
7. _____	_____	_____	_____																																									
8. _____	_____	_____	_____																																									
9. _____	_____	_____	_____																																									
10. _____	_____	_____	_____																																									
11. _____	_____	_____	_____																																									
12. _____	_____	_____	_____																																									
	85	= Total Cover																																										
Woody Vine Stratum (Plot size: <u>30 ft</u>)																																												
1. _____	_____	_____	_____																																									
2. _____	_____	_____	_____																																									
3. _____	_____	_____	_____																																									
4. _____	_____	_____	_____																																									
	0	= Total Cover																																										
Remarks: (Include photo numbers here or on a separate sheet.)				Definitions of Vegetation Strata: Tree – Woody plants 3 in. (7.6 cm) or more in diameter at 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 size, and woody plants less than 3.28 ft tall. Woody vines – All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation Present? Yes ____ No <u>✓</u>																																								

SOIL

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

[illegible]

Hydrology Photos



Vegetation Photos



Soil Photos



WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Trelina City/County: Waterloo, Seneca Sampling Date: 2019-June-25
 Applicant/Owner: NextEra State: NY Sampling Point: W-NWJ-10; PEM-1
 Investigator(s): Nick DeJohn, Nate Jones Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none): Concave Slope (%): 2-5
 Subregion (LRR or MLRA): LRR L Lat: 42.8988492815 Long: -76.9311240782 Datum: WGS84
 Soil Map Unit Name: Claverack loamy fine sand, 2 to 6 percent slopes NWI classification: _____
 Are climatic/hydrologic conditions on the site typical for this time of year? Yes ____ No ✓ (If no, explain in Remarks.)
 Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes ✓ No ____
 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?	Yes <u>✓</u> No ____	
Hydric Soil Present?	Yes <u>✓</u> No ____	Is the Sampled Area within a Wetland? Yes <u>✓</u> No ____
Wetland Hydrology Present?	Yes <u>✓</u> No ____	If yes, optional Wetland Site ID: <u>W-NWJ-10</u>
Remarks: (Explain alternative procedures here or in a separate report)		
<p>TRC coverype is PEM. Wetter than average year</p>		

HYDROLOGY

Wetland Hydrology Indicators:			
<u>Primary Indicators (minimum of one is required; check all that apply)</u>		<u>Secondary Indicators (minimum of two required)</u>	
<input checked="" type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)	
<input checked="" type="checkbox"/> High Water Table (A2)	<input checked="" type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)	
<input checked="" type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)	<input type="checkbox"/> Moss Trim Lines (B16)	
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Dry-Season Water Table (C2)	
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Crayfish Burrows (C8)	
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)	
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Stunted or Stressed Plants (D1)	
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Geomorphic Position (D2)	
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)	
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<input type="checkbox"/> Microtopographic Relief (D4)	
		<input checked="" type="checkbox"/> FAC-Neutral Test (D5)	
Field Observations:			
Surface Water Present?	Yes <u>✓</u> No ____	Depth (inches):	<u>1</u>
Water Table Present?	Yes <u>✓</u> No ____	Depth (inches):	<u>0</u>
Saturation Present?	Yes <u>✓</u> No ____	Depth (inches):	<u>0</u>
(includes capillary fringe)		Wetland Hydrology Present? Yes <u>✓</u> No ____	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:			
Remarks:			

VEGETATION -- Use scientific names of plants.

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

Tree Stratum (Plot size: <u>30 ft</u>)				Dominance Test worksheet:	
	Absolute % Cover	Dominant Species?	Indicator Status		
1. <i>Salix nigra</i>	15	Yes	OBL	Number of Dominant Species That Are OBL, FACW, or FAC:	4 (A)
2. <i>Acer rubrum</i>	10	Yes	FAC	Total Number of Dominant Species Across All Strata:	4 (B)
3. _____	_____	_____	_____	Percent of Dominant Species That Are OBL, FACW, or FAC:	100 (A/B)
4. _____	_____	_____	_____	Prevalence Index worksheet:	
5. _____	_____	_____	_____	Total % Cover of:	Multiply By:
6. _____	_____	_____	_____	OBL species	40 x 1 = 40
7. _____	_____	_____	_____	FACW species	40 x 2 = 80
	25	= Total Cover		FAC species	10 x 3 = 30
Sapling/Shrub Stratum (Plot size: <u>15 ft</u>)				FACU species	0 x 4 = 0
1. _____	_____	_____	_____	UPL species	0 x 5 = 0
2. _____	_____	_____	_____	Column Totals	90 (A) 150 (B)
3. _____	_____	_____	_____	Prevalence Index = B/A = 1.7	
4. _____	_____	_____	_____	Hydrophytic Vegetation Indicators:	
5. _____	_____	_____	_____	____ 1- Rapid Test for Hydrophytic Vegetation	
6. _____	_____	_____	_____	<input checked="" type="checkbox"/> 2 - Dominance Test is >50%	
7. _____	_____	_____	_____	<input checked="" type="checkbox"/> 3 - Prevalence Index is ≤ 3.0 ¹	
	0	= Total Cover		____ 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)	
Herb Stratum (Plot size: <u>5 ft</u>)				____ Problematic Hydrophytic Vegetation ¹ (Explain)	
1. <i>Onoclea sensibilis</i>	40	Yes	FACW	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic	
2. <i>Carex crinita</i>	15	Yes	OBL	Definitions of Vegetation Strata:	
3. <i>Juncus effusus</i>	10	No	OBL	Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.	
4. _____	_____	_____	_____	Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.	
5. _____	_____	_____	_____	Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.	
6. _____	_____	_____	_____	Woody vines – All woody vines greater than 3.28 ft in height.	
7. _____	_____	_____	_____	Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No _____	
8. _____	_____	_____	_____		
9. _____	_____	_____	_____		
10. _____	_____	_____	_____		
11. _____	_____	_____	_____		
12. _____	_____	_____	_____		
	65	= Total Cover			
Woody Vine Stratum (Plot size: <u>30 ft</u>)					
1. _____	_____	_____	_____		
2. _____	_____	_____	_____		
3. _____	_____	_____	_____		
4. _____	_____	_____	_____		
	0	= Total Cover			
Remarks: (Include photo numbers here or on a separate sheet.)					

SOIL

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

[illegible]

Vegetation Photos



Soil Photos



WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Trelina City/County: Waterloo, Seneca Sampling Date: 2019-June-25
 Applicant/Owner: NextEra State: NY Sampling Point: W-NWJ-10; PFO-1
 Investigator(s): Nick DeJohn, Nate Jones Section, Township, Range:
 Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none): Concave Slope (%): 0-1
 Subregion (LRR or MLRA): LRR L Lat: 42.8993195482 Long: -76.9311916363 Datum: WGS84
 Soil Map Unit Name: Cosad loamy fine sand NWI classification:
 Are climatic/hydrologic conditions on the site typical for this time of year? Yes ___ No ☒ (If no, explain in Remarks.)
 Are Vegetation ___ Soil ___ or Hydrology ___ significantly disturbed? Are "Normal Circumstances" present? Yes ☒ No ___
 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?	Yes <input checked="" type="checkbox"/> No ___	Is the Sampled Area within a Wetland?	Yes <input checked="" type="checkbox"/> No ___
Hydric Soil Present?	Yes <input checked="" type="checkbox"/> No ___	If yes, optional Wetland Site ID:	W-NWJ-10
Wetland Hydrology Present?	Yes <input checked="" type="checkbox"/> No ___		
Remarks: (Explain alternative procedures here or in a separate report)			
TRC coverype is PFO. Wetter than average year			

HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)	
Primary Indicators (minimum of one is required; check all that apply)			
<input checked="" type="checkbox"/> Surface Water (A1)	<input checked="" type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)	
<input checked="" type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)	
<input checked="" type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)	<input type="checkbox"/> Moss Trim Lines (B16)	
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Dry-Season Water Table (C2)	
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Crayfish Burrows (C8)	
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)	
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Stunted or Stressed Plants (D1)	
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Geomorphic Position (D2)	
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)	
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<input type="checkbox"/> Microtopographic Relief (D4)	
		<input checked="" type="checkbox"/> FAC-Neutral Test (D5)	
Field Observations:			
Surface Water Present?	Yes <input checked="" type="checkbox"/> No ___	Depth (inches):	2
Water Table Present?	Yes <input checked="" type="checkbox"/> No ___	Depth (inches):	0
Saturation Present?	Yes <input checked="" type="checkbox"/> No ___	Depth (inches):	0
(includes capillary fringe)		Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No ___	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:			
Remarks:			

VEGETATION -- Use scientific names of plants.

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

Tree Stratum (Plot size: <u>30 ft</u>)	Absolute % Cover	Dominant Species?	Indicator Status																	
1. <i>Acer rubrum</i>	30	Yes	FAC	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>4</u> (A) Total Number of Dominant Species Across All Strata: <u>4</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)																
2. <i>Fraxinus pennsylvanica</i>	15	Yes	FACW																	
3. <i>Populus deltoides</i>	10	No	FAC																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____	Prevalence Index worksheet: <table style="width: 100%;"> <tr> <th style="text-align: left;">Total % Cover of:</th> <th style="text-align: left;">Multiply By:</th> </tr> <tr> <td>OBL species <u>0</u></td> <td>x 1 = <u>0</u></td> </tr> <tr> <td>FACW species <u>45</u></td> <td>x 2 = <u>90</u></td> </tr> <tr> <td>FAC species <u>40</u></td> <td>x 3 = <u>120</u></td> </tr> <tr> <td>FACU species <u>0</u></td> <td>x 4 = <u>0</u></td> </tr> <tr> <td>UPL species <u>0</u></td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals <u>85</u></td> <td>(A) <u>210</u> (B)</td> </tr> <tr> <td colspan="2">Prevalence Index = B/A = <u>2.5</u></td> </tr> </table>	Total % Cover of:	Multiply By:	OBL species <u>0</u>	x 1 = <u>0</u>	FACW species <u>45</u>	x 2 = <u>90</u>	FAC species <u>40</u>	x 3 = <u>120</u>	FACU species <u>0</u>	x 4 = <u>0</u>	UPL species <u>0</u>	x 5 = <u>0</u>	Column Totals <u>85</u>	(A) <u>210</u> (B)	Prevalence Index = B/A = <u>2.5</u>	
Total % Cover of:	Multiply By:																			
OBL species <u>0</u>	x 1 = <u>0</u>																			
FACW species <u>45</u>	x 2 = <u>90</u>																			
FAC species <u>40</u>	x 3 = <u>120</u>																			
FACU species <u>0</u>	x 4 = <u>0</u>																			
UPL species <u>0</u>	x 5 = <u>0</u>																			
Column Totals <u>85</u>	(A) <u>210</u> (B)																			
Prevalence Index = B/A = <u>2.5</u>																				
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
	<u>55</u>	= Total Cover																		
Sapling/Shrub Stratum (Plot size: <u>15 ft</u>)				Hydrophytic Vegetation Indicators: ____ 1- Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is >50% <input checked="" type="checkbox"/> 3 - Prevalence Index is ≤ 3.0 ¹ ____ 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) ____ Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic																
1. <i>Ulmus americana</i>	5	Yes	FACW																	
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____	Definitions of Vegetation Strata: Tree – Woody plants 3 in. (7.6 cm) or more in diameter at 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 size, and woody plants less than 3.28 ft tall. Woody vines – All woody vines greater than 3.28 ft in height.																
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
	<u>5</u>	= Total Cover		Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No ____																
Herb Stratum (Plot size: <u>5 ft</u>)																				
1. <i>Onoclea sensibilis</i>	25	Yes	FACW																	
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
8. _____	_____	_____	_____																	
9. _____	_____	_____	_____																	
10. _____	_____	_____	_____																	
11. _____	_____	_____	_____																	
12. _____	_____	_____	_____																	
	<u>25</u>	= Total Cover																		
Woody Vine Stratum (Plot size: <u>30 ft</u>)																				
1. _____	_____	_____	_____																	
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
	<u>0</u>	= Total Cover																		

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

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

[illegible]

Hydrology Photos



Vegetation Photos



Soil Photos



WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Trelina City/County: Waterloo, Seneca Sampling Date: 2019-June-25
 Applicant/Owner: NextEra State: NY Sampling Point: W-NWJ-10; UPL-1
 Investigator(s): Nick DeJohn, Nate Jones Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): Flat Local relief (concave, convex, none): None Slope (%): 0-1
 Subregion (LRR or MLRA): LRR L Lat: 42.8988988605 Long: -76.9311503974 Datum: WGS84
 Soil Map Unit Name: Claverack loamy fine sand, 2 to 6 percent slopes NWI classification: _____
 Are climatic/hydrologic conditions on the site typical for this time of year? Yes ____ No ✓ (If no, explain in Remarks.)
 Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes ✓ No ____
 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?	Yes ____ No <u>✓</u>	
Hydric Soil Present?	Yes ____ No <u>✓</u>	Is the Sampled Area within a Wetland? Yes ____ No <u>✓</u>
Wetland Hydrology Present?	Yes ____ No <u>✓</u>	If yes, optional Wetland Site ID: _____
Remarks: (Explain alternative procedures here or in a separate report) TRC coverype is UPL. Recent rain		

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u>			<u>Secondary Indicators (minimum of two required)</u>		
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)			
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)			
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)	<input type="checkbox"/> Moss Trim Lines (B16)			
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Dry-Season Water Table (C2)			
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Crayfish Burrows (C8)			
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)			
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Stunted or Stressed Plants (D1)			
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Geomorphic Position (D2)			
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)			
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<input type="checkbox"/> Microtopographic Relief (D4)			
		<input type="checkbox"/> FAC-Neutral Test (D5)			
Field Observations: Surface Water Present? Yes ____ No <u>✓</u> Depth (inches): _____ Water Table Present? Yes ____ No <u>✓</u> Depth (inches): _____ Saturation Present? Yes ____ No <u>✓</u> Depth (inches): _____ (includes capillary fringe)			Wetland Hydrology Present? Yes ____ No <u>✓</u>		
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: 					
Remarks:					

VEGETATION -- Use scientific names of plants.

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

Tree Stratum (Plot size: <u>30 ft</u>)				Dominance Test worksheet:	
	Absolute % Cover	Dominant Species?	Indicator Status		
1. <i>Juglans nigra</i>	30	Yes	FACU	Number of Dominant Species That Are OBL, FACW, or FAC:	0 (A)
2. _____	_____	_____	_____	Total Number of Dominant Species Across All Strata:	5 (B)
3. _____	_____	_____	_____	Percent of Dominant Species That Are OBL, FACW, or FAC:	0 (A/B)
4. _____	_____	_____	_____	Prevalence Index worksheet:	
5. _____	_____	_____	_____	Total % Cover of:	Multiply By:
6. _____	_____	_____	_____	OBL species	0 x 1 = 0
7. _____	_____	_____	_____	FACW species	0 x 2 = 0
	30 = Total Cover			FAC species	0 x 3 = 0
Sapling/Shrub Stratum (Plot size: <u>15 ft</u>)				FACU species	138 x 4 = 552
1. <i>Lonicera japonica</i>	40	Yes	FACU	UPL species	0 x 5 = 0
2. _____	_____	_____	_____	Column Totals	138 (A) 552 (B)
3. _____	_____	_____	_____	Prevalence Index = B/A = 4	
4. _____	_____	_____	_____	Hydrophytic Vegetation Indicators:	
5. _____	_____	_____	_____	____ 1- Rapid Test for Hydrophytic Vegetation	
6. _____	_____	_____	_____	____ 2 - Dominance Test is > 50%	
7. _____	_____	_____	_____	____ 3 - Prevalence Index is ≤ 3.0 ¹	
	40 = Total Cover			____ 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)	
Herb Stratum (Plot size: <u>5 ft</u>)				____ Problematic Hydrophytic Vegetation ¹ (Explain)	
1. <i>Dactylis glomerata</i>	35	Yes	FACU	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic	
2. <i>Rubus allegheniensis</i>	18	Yes	FACU	Definitions of Vegetation Strata:	
3. <i>Alliaria petiolata</i>	15	Yes	FACU	Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.	
4. _____	_____	_____	_____	Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.	
5. _____	_____	_____	_____	Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.	
6. _____	_____	_____	_____	Woody vines – All woody vines greater than 3.28 ft in height.	
7. _____	_____	_____	_____	Hydrophytic Vegetation Present? Yes ____ No <input checked="" type="checkbox"/>	
8. _____	_____	_____	_____		
9. _____	_____	_____	_____		
10. _____	_____	_____	_____		
11. _____	_____	_____	_____		
12. _____	_____	_____	_____		
	68 = Total Cover				
Woody Vine Stratum (Plot size: <u>30 ft</u>)					
1. _____	_____	_____	_____		
2. _____	_____	_____	_____		
3. _____	_____	_____	_____		
4. _____	_____	_____	_____		
	0 = Total Cover				
Remarks: (Include photo numbers here or on a separate sheet.)					

SOIL

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

[illegible]

Hydrology Photos



Vegetation Photos



Soil Photos



WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Trelina City/County: Waterloo, Seneca Sampling Date: 2019-June-25
 Applicant/Owner: NextEra State: NY Sampling Point: W-NWJ-11; PEM-1
 Investigator(s): Nick DeJohn, Nate Jones Section, Township, Range:
 Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none): Concave Slope (%): 2-5
 Subregion (LRR or MLRA): LRR L Lat: 42.8905414744 Long: -76.9253825583 Datum: WGS84
 Soil Map Unit Name: Cosad loamy fine sand NWI classification:
 Are climatic/hydrologic conditions on the site typical for this time of year? Yes ___ No ☒ (If no, explain in Remarks.)
 Are Vegetation __, Soil __, or Hydrology __ significantly disturbed? Are "Normal Circumstances" present? Yes ☒ No ___
 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?	Yes <input checked="" type="checkbox"/> No ___	Is the Sampled Area within a Wetland?	Yes <input checked="" type="checkbox"/> No ___
Hydric Soil Present?	Yes <input checked="" type="checkbox"/> No ___	If yes, optional Wetland Site ID:	W-NWJ-11
Wetland Hydrology Present?	Yes <input checked="" type="checkbox"/> No ___		
Remarks: (Explain alternative procedures here or in a separate report)			
TRC coverype is PEM. Wetter than average year			

HYDROLOGY

Wetland Hydrology Indicators:			
Primary Indicators (minimum of one is required; check all that apply)		Secondary Indicators (minimum of two required)	
<input checked="" type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)	
<input checked="" type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)	
<input checked="" type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)	<input type="checkbox"/> Moss Trim Lines (B16)	
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Dry-Season Water Table (C2)	
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Crayfish Burrows (C8)	
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)	
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Stunted or Stressed Plants (D1)	
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Geomorphic Position (D2)	
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)	
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<input type="checkbox"/> Microtopographic Relief (D4)	
		<input checked="" type="checkbox"/> FAC-Neutral Test (D5)	
Field Observations:			
Surface Water Present?	Yes <input checked="" type="checkbox"/> No ___	Depth (inches):	1
Water Table Present?	Yes <input checked="" type="checkbox"/> No ___	Depth (inches):	0
Saturation Present?	Yes <input checked="" type="checkbox"/> No ___	Depth (inches):	0
(includes capillary fringe)		Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No ___	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:			
Remarks:			

VEGETATION -- Use scientific names of plants.

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

Tree Stratum (Plot size: <u>30 ft</u>)	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
	0	= Total Cover		
Sapling/Shrub Stratum (Plot size: <u>15 ft</u>)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
	0	= Total Cover		
Herb Stratum (Plot size: <u>5 ft</u>)				
1. <i>Typha latifolia</i>	40	Yes	OBL	
2. <i>Juncus effusus</i>	30	Yes	OBL	
3. <i>Symphotrichum puniceum</i>	8	No	OBL	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
11. _____	_____	_____	_____	
12. _____	_____	_____	_____	
	78	= Total Cover		
Woody Vine Stratum (Plot size: <u>30 ft</u>)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
	0	= Total Cover		

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)

Total Number of Dominant Species Across All Strata: 2 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply By:
OBL species 78	x 1 = 78
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

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 at 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 size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? Yes ☒ No ____

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

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

[illegible]

Hydrology Photos



Vegetation Photos



Soil Photos



WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Trelina City/County: Waterloo, Seneca Sampling Date: 2019-June-25
 Applicant/Owner: NextEra State: NY Sampling Point: W-NWJ-11; UPL-1
 Investigator(s): Nick DeJohn, Nate Jones Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): Hillslope Local relief (concave, convex, none): Convex Slope (%): 2-5
 Subregion (LRR or MLRA): LRR L Lat: 42.8905616329 Long: -76.9257438184 Datum: WGS84
 Soil Map Unit Name: Arkport loamy fine sand, 1 to 6 percent slopes NWI classification: _____
 Are climatic/hydrologic conditions on the site typical for this time of year? Yes ____ No ✓ (If no, explain in Remarks.)
 Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes ✓ No ____
 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?	Yes ____ No <u>✓</u>	
Hydric Soil Present?	Yes ____ No <u>✓</u>	Is the Sampled Area within a Wetland? Yes ____ No <u>✓</u>
Wetland Hydrology Present?	Yes ____ No <u>✓</u>	If yes, optional Wetland Site ID: _____
Remarks: (Explain alternative procedures here or in a separate report) TRC coverype is UPL. Recent rain		

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u>			<u>Secondary Indicators (minimum of two required)</u>		
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)			
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)			
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)	<input type="checkbox"/> Moss Trim Lines (B16)			
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Dry-Season Water Table (C2)			
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Crayfish Burrows (C8)			
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)			
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Stunted or Stressed Plants (D1)			
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Geomorphic Position (D2)			
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)			
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<input type="checkbox"/> Microtopographic Relief (D4)			
		<input type="checkbox"/> FAC-Neutral Test (D5)			
Field Observations: Surface Water Present? Yes ____ No <u>✓</u> Depth (inches): _____ Water Table Present? Yes ____ No <u>✓</u> Depth (inches): _____ Saturation Present? Yes ____ No <u>✓</u> Depth (inches): _____ (includes capillary fringe)			Wetland Hydrology Present? Yes ____ No <u>✓</u>		
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: 					
Remarks:					

VEGETATION -- Use scientific names of plants.

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

Tree Stratum (Plot size: <u>30 ft</u>)			Absolute % Cover	Dominant Species?	Indicator Status
1.					
2.					
3.					
4.					
5.					
6.					
7.					
			<u>0</u>	= Total Cover	
Sapling/Shrub Stratum (Plot size: <u>15 ft</u>)			Absolute % Cover	Dominant Species?	Indicator Status
1.					
2.					
3.					
4.					
5.					
6.					
7.					
			<u>0</u>	= Total Cover	
Herb Stratum (Plot size: <u>5 ft</u>)			Absolute % Cover	Dominant Species?	Indicator Status
1.	<i>Trifolium repens</i>		45	Yes	FACU
2.	<i>Solidago canadensis</i>		30	Yes	FACU
3.	<i>Reynoutria japonica</i>		8	No	FACU
4.	<i>Eutrochium purpureum</i>		2	No	FAC
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
			<u>85</u>	= Total Cover	
Woody Vine Stratum (Plot size: <u>30 ft</u>)			Absolute % Cover	Dominant Species?	Indicator Status
1.					
2.					
3.					
4.					
			<u>0</u>	= Total Cover	

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)

Total Number of Dominant Species Across All Strata: 2 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 0 (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply By:	
OBL species	<u>0</u>	x 1 =	<u>0</u>
FACW species	<u>0</u>	x 2 =	<u>0</u>
FAC species	<u>2</u>	x 3 =	<u>6</u>
FACU species	<u>83</u>	x 4 =	<u>332</u>
UPL species	<u>0</u>	x 5 =	<u>0</u>
Column Totals	<u>85</u>	(A)	<u>338</u> (B)
Prevalence Index = B/A = <u>4</u>			

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 at 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 size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? Yes No ✓

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

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

[illegible]

Hydrology Photos



Vegetation Photos



Soil Photos



WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Trelina City/County: Waterloo, Seneca Sampling Date: 2019-June-25
 Applicant/Owner: NextEra State: NY Sampling Point: W-NWJ-12; PEM-1
 Investigator(s): Nick DeJohn, Nate Jones Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none): Concave Slope (%): 0-1
 Subregion (LRR or MLRA): LRR L Lat: 42.8967076214 Long: -76.9312961587 Datum: WGS84
 Soil Map Unit Name: Claverack loamy fine sand, 0 to 2 percent slopes NWI classification: _____
 Are climatic/hydrologic conditions on the site typical for this time of year? Yes ____ No ✓ (If no, explain in Remarks.)
 Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes ✓ No ____
 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?	Yes <u>✓</u> No ____	
Hydric Soil Present?	Yes <u>✓</u> No ____	Is the Sampled Area within a Wetland? Yes <u>✓</u> No ____
Wetland Hydrology Present?	Yes <u>✓</u> No ____	If yes, optional Wetland Site ID: <u>W-NWJ-12</u>
Remarks: (Explain alternative procedures here or in a separate report)		
TRC coverype is PEM. Wetter than average year		

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u>				<u>Secondary Indicators (minimum of two required)</u>	
<input checked="" type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)			
<input checked="" type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)			
<input checked="" type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)	<input type="checkbox"/> Moss Trim Lines (B16)			
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Dry-Season Water Table (C2)			
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Crayfish Burrows (C8)			
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)			
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Stunted or Stressed Plants (D1)			
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Geomorphic Position (D2)			
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)			
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<input type="checkbox"/> Microtopographic Relief (D4)			
		<input checked="" type="checkbox"/> FAC-Neutral Test (D5)			
Field Observations:					
Surface Water Present?	Yes <u>✓</u> No ____	Depth (inches):	<u>1</u>	Wetland Hydrology Present? Yes <u>✓</u> No ____	
Water Table Present?	Yes <u>✓</u> No ____	Depth (inches):	<u>0</u>		
Saturation Present?	Yes <u>✓</u> No ____	Depth (inches):	<u>0</u>		
(includes capillary fringe)					
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:					
Remarks:					

Sampling Point: W-NWJ-12; PEM-1

Northcentral and Northeast Region -- Version 2.0 Adapted by TRC

SOIL

Sampling Point: W-NWJ-12; PEM-1

[illegible]

Hydrology Photos



Vegetation Photos



Soil Photos



WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Trelina City/County: Waterloo, Seneca Sampling Date: 2019-June-25
 Applicant/Owner: NextEra State: NY Sampling Point: W-NWJ-12; UPL-1
 Investigator(s): Nick DeJohn, Nate Jones Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): Agricultural Field Local relief (concave, convex, none): Flat Slope (%): 0-1
 Subregion (LRR or MLRA): LRR L Lat: 42.8965492035 Long: -76.9314523135 Datum: WGS84
 Soil Map Unit Name: Claverack loamy fine sand, 2 to 6 percent slopes NWI classification: _____
 Are climatic/hydrologic conditions on the site typical for this time of year? Yes ____ No ✓ (If no, explain in Remarks.)
 Are Vegetation ✓, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes ✓ No ____
 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?	Yes ____ No <u>✓</u>	
Hydric Soil Present?	Yes ____ No <u>✓</u>	Is the Sampled Area within a Wetland? Yes ____ No <u>✓</u>
Wetland Hydrology Present?	Yes ____ No <u>✓</u>	If yes, optional Wetland Site ID: _____
Remarks: (Explain alternative procedures here or in a separate report) TRC coverype is UPL. Circumstances are not normal due to agricultural activities, Recent rain		

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u>			<u>Secondary Indicators (minimum of two required)</u>		
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)			
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)			
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)	<input type="checkbox"/> Moss Trim Lines (B16)			
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Dry-Season Water Table (C2)			
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Crayfish Burrows (C8)			
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)			
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Stunted or Stressed Plants (D1)			
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Geomorphic Position (D2)			
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)			
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<input type="checkbox"/> Microtopographic Relief (D4)			
		<input type="checkbox"/> FAC-Neutral Test (D5)			
Field Observations:					
Surface Water Present?	Yes ____ No <u>✓</u>	Depth (inches): _____	Wetland Hydrology Present? Yes ____ No <u>✓</u>		
Water Table Present?	Yes ____ No <u>✓</u>	Depth (inches): _____			
Saturation Present?	Yes ____ No <u>✓</u>	Depth (inches): _____			
(includes capillary fringe)					
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:					
Remarks:					

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

US Army Corps of Engineers

SOIL

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

[illegible]

Vegetation Photos



Soil Photos



WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Trelina City/County: Waterloo, Seneca Sampling Date: 2019-June-25
 Applicant/Owner: NextEra State: NY Sampling Point: W-NWJ-13; PEM-1
 Investigator(s): Nick DeJohn, Nate Jones Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): Agricultural Field Local relief (concave, convex, none): Concave Slope (%): 0-1
 Subregion (LRR or MLRA): LRR L Lat: 42.8945225012 Long: -76.9313613699 Datum: WGS84
 Soil Map Unit Name: Cosad loamy fine sand NWI classification: _____
 Are climatic/hydrologic conditions on the site typical for this time of year? Yes ____ No ☒ (If no, explain in Remarks.)
 Are Vegetation ☒ Soil ____ or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes ☒ No ____
 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?	Yes <input checked="" type="checkbox"/> No ____	
Hydric Soil Present?	Yes <input checked="" type="checkbox"/> No ____	Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No ____
Wetland Hydrology Present?	Yes <input checked="" type="checkbox"/> No ____	If yes, optional Wetland Site ID: W-NWJ-13
Remarks: (Explain alternative procedures here or in a separate report) TRC coverype is PEM. Circumstances are not normal due to agricultural activities, Wetter than average year		

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u>				<u>Secondary Indicators (minimum of two required)</u>	
<input checked="" type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)			
<input checked="" type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)			
<input checked="" type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)	<input type="checkbox"/> Moss Trim Lines (B16)			
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Dry-Season Water Table (C2)			
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Crayfish Burrows (C8)			
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)			
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Stunted or Stressed Plants (D1)			
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Geomorphic Position (D2)			
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)			
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<input type="checkbox"/> Microtopographic Relief (D4)			
		<input checked="" type="checkbox"/> FAC-Neutral Test (D5)			
Field Observations:					
Surface Water Present?	Yes <input checked="" type="checkbox"/> No ____	Depth (inches):	<u>3</u>	Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No ____	
Water Table Present?	Yes <input checked="" type="checkbox"/> No ____	Depth (inches):	<u>0</u>		
Saturation Present?	Yes <input checked="" type="checkbox"/> No ____	Depth (inches):	<u>0</u>		
(includes capillary fringe)					
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:					
Remarks:					

VEGETATION -- Use scientific names of plants.

Sampling Point: W-NWJ-13; PEM-1

Tree Stratum (Plot size: <u>30 ft</u>)	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
	0	= Total Cover		
Sapling/Shrub Stratum (Plot size: <u>15 ft</u>)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
	0	= Total Cover		
Herb Stratum (Plot size: <u>5 ft</u>)				
1. <i>Eleocharis palustris</i>	60	Yes	OBL	
2. <i>Alisma triviale</i>	20	Yes	OBL	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
11. _____	_____	_____	_____	
12. _____	_____	_____	_____	
	80	= Total Cover		
Woody Vine Stratum (Plot size: <u>30 ft</u>)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
	0	= Total Cover		

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)

Total Number of Dominant Species Across All Strata: 2 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply By:
OBL species 80	x 1 = 80
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 80	(A) 80 (B)

Prevalence Index = B/A = 1

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 at 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 size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? Yes ☒ No ____

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: W-NWJ-13; PEM-1

[illegible]

Hydrology Photos



Vegetation Photos



Soil Photos



WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Trelina City/County: Waterloo, Seneca Sampling Date: 2019-June-25
 Applicant/Owner: NextEra State: NY Sampling Point: W-NWJ-13; UPL-1
 Investigator(s): Nick DeJohn, Nate Jones Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): Agricultural Field Local relief (concave, convex, none): Flat Slope (%): 0-1
 Subregion (LRR or MLRA): LRR L Lat: 42.8945965134 Long: -76.9313970768 Datum: WGS84
 Soil Map Unit Name: Claverack loamy fine sand NWI classification: _____
 Are climatic/hydrologic conditions on the site typical for this time of year? Yes ____ No ✓ (If no, explain in Remarks.)
 Are Vegetation ✓, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes ✓ No ____
 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?	Yes ____ No <u>✓</u>	
Hydric Soil Present?	Yes ____ No <u>✓</u>	Is the Sampled Area within a Wetland? Yes ____ No <u>✓</u>
Wetland Hydrology Present?	Yes ____ No <u>✓</u>	If yes, optional Wetland Site ID: _____
Remarks: (Explain alternative procedures here or in a separate report) TRC coverype is UPL. Circumstances are not normal due to agricultural activities, Recent rain		

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u>			<u>Secondary Indicators (minimum of two required)</u>		
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)			
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)			
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)	<input type="checkbox"/> Moss Trim Lines (B16)			
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Dry-Season Water Table (C2)			
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Crayfish Burrows (C8)			
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)			
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Stunted or Stressed Plants (D1)			
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Geomorphic Position (D2)			
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)			
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<input type="checkbox"/> Microtopographic Relief (D4)			
		<input type="checkbox"/> FAC-Neutral Test (D5)			
Field Observations: Surface Water Present? Yes ____ No <u>✓</u> Depth (inches): _____ Water Table Present? Yes ____ No <u>✓</u> Depth (inches): _____ Saturation Present? Yes ____ No <u>✓</u> Depth (inches): _____ (includes capillary fringe)			Wetland Hydrology Present? Yes ____ No <u>✓</u>		
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: 					
Remarks:					

VEGETATION -- Use scientific names of plants.

Sampling Point: W-NWJ-13; UPL-1

Tree Stratum (Plot size: <u>30 ft</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:				
1. _____	_____	_____	_____	Number of Dominant Species That Are OBL, FACW, or FAC:	0	(A)		
2. _____	_____	_____	_____	Total Number of Dominant Species Across All Strata:	1	(B)		
3. _____	_____	_____	_____	Percent of Dominant Species That Are OBL, FACW, or FAC:	0	(A/B)		
4. _____	_____	_____	_____	Prevalence Index worksheet:				
5. _____	_____	_____	_____	<u>Total % Cover of:</u>		<u>Multiply By:</u>		
6. _____	_____	_____	_____	OBL species	0	x 1 =	0	
7. _____	_____	_____	_____	FACW species	0	x 2 =	0	
	0	= Total Cover			FAC species	0	x 3 =	0
Sapling/Shrub Stratum (Plot size: <u>15 ft</u>)				FACU species	30	x 4 =	120	
1. _____	_____	_____	_____	UPL species	5	x 5 =	25	
2. _____	_____	_____	_____	Column Totals	35	(A)	145 (B)	
3. _____	_____	_____	_____	Prevalence Index = B/A = <u>4.1</u>				
4. _____	_____	_____	_____	Hydrophytic Vegetation Indicators:				
5. _____	_____	_____	_____	____ 1- Rapid Test for Hydrophytic Vegetation				
6. _____	_____	_____	_____	____ 2 - Dominance Test is > 50%				
7. _____	_____	_____	_____	____ 3 - Prevalence Index is ≤ 3.0 ¹				
	0	= Total Cover			____ 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)			
Herb Stratum (Plot size: <u>5 ft</u>)				____ Problematic Hydrophytic Vegetation ¹ (Explain)				
1. <i>Ambrosia artemisiifolia</i>	30	Yes	FACU	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic				
2. <i>Leucanthemum vulgare</i>	5	No	UPL					
3. _____	_____	_____	_____	Definitions of Vegetation Strata:				
4. _____	_____	_____	_____	Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.				
5. _____	_____	_____	_____	Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.				
6. _____	_____	_____	_____	Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.				
7. _____	_____	_____	_____	Woody vines – All woody vines greater than 3.28 ft in height.				
8. _____	_____	_____	_____	Hydrophytic Vegetation Present? Yes ____ No <u>✓</u>				
9. _____	_____	_____	_____					
10. _____	_____	_____	_____					
11. _____	_____	_____	_____					
12. _____	_____	_____	_____					
	35	= Total Cover						
Woody Vine Stratum (Plot size: <u>30 ft</u>)								
1. _____	_____	_____	_____					
2. _____	_____	_____	_____					
3. _____	_____	_____	_____					
4. _____	_____	_____	_____					
	0	= Total Cover						
<p>Remarks: (Include photo numbers here or on a separate sheet.)</p> <p>Fallow field</p>								

SOIL

Sampling Point: W-NWJ-13; UPL-1

[illegible]

Hydrology Photos



Vegetation Photos



Soil Photos



WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Trelina City/County: Waterloo, Seneca Sampling Date: 2019-June-25
 Applicant/Owner: NextEra State: NY Sampling Point: W-NWJ-14; PEM-1
 Investigator(s): Nick DeJohn, Nate Jones Section, Township, Range:
 Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none): Concave Slope (%): 0-1
 Subregion (LRR or MLRA): LRR L Lat: 42.893138649 Long: -76.9306793344 Datum: WGS84
 Soil Map Unit Name: Claverack loamy fine sand, 2 to 6 percent slopes NWI classification:
 Are climatic/hydrologic conditions on the site typical for this time of year? Yes ___ No ☒ (If no, explain in Remarks.)
 Are Vegetation __, Soil __, or Hydrology __ significantly disturbed? Are "Normal Circumstances" present? Yes ☒ No ___
 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?	Yes <input checked="" type="checkbox"/> No ___	Is the Sampled Area within a Wetland?	Yes <input checked="" type="checkbox"/> No ___
Hydric Soil Present?	Yes <input checked="" type="checkbox"/> No ___	If yes, optional Wetland Site ID:	W-NWJ-14
Wetland Hydrology Present?	Yes <input checked="" type="checkbox"/> No ___		
Remarks: (Explain alternative procedures here or in a separate report)			
TRC coverype is PEM. Wetter than average year			

HYDROLOGY

Wetland Hydrology Indicators:			
Primary Indicators (minimum of one is required; check all that apply)		Secondary Indicators (minimum of two required)	
<input checked="" type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)	
<input checked="" type="checkbox"/> High Water Table (A2)	<input checked="" type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)	
<input checked="" type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)	<input type="checkbox"/> Moss Trim Lines (B16)	
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Dry-Season Water Table (C2)	
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Crayfish Burrows (C8)	
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)	
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input checked="" type="checkbox"/> Stunted or Stressed Plants (D1)	
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input checked="" type="checkbox"/> Geomorphic Position (D2)	
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)	
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<input type="checkbox"/> Microtopographic Relief (D4)	
		<input checked="" type="checkbox"/> FAC-Neutral Test (D5)	
Field Observations:			
Surface Water Present?	Yes <input checked="" type="checkbox"/> No ___	Depth (inches):	3
Water Table Present?	Yes <input checked="" type="checkbox"/> No ___	Depth (inches):	0
Saturation Present?	Yes <input checked="" type="checkbox"/> No ___	Depth (inches):	0
(includes capillary fringe)		Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No ___	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:			
Remarks:			

VEGETATION -- Use scientific names of plants.

Sampling Point: W-NWJ-14; PEM-1

Tree Stratum (Plot size: <u>30 ft</u>)		Absolute % Cover	Dominant Species?	Indicator Status
1.	<i>Salix nigra</i>	15	Yes	OBL
2.	<i>Fraxinus pennsylvanica</i>	5	Yes	FACW
3.				
4.				
5.				
6.				
7.				
		20	= Total Cover	
Sapling/Shrub Stratum (Plot size: <u>15 ft</u>)		Absolute % Cover	Dominant Species?	Indicator Status
1.	<i>Rhamnus cathartica</i>	10	Yes	FAC
2.				
3.				
4.				
5.				
6.				
7.				
		10	= Total Cover	
Herb Stratum (Plot size: <u>5 ft</u>)		Absolute % Cover	Dominant Species?	Indicator Status
1.	<i>Typha latifolia</i>	40	Yes	OBL
2.	<i>Lythrum salicaria</i>	20	Yes	OBL
3.	<i>Solidago rugosa</i>	10	No	FAC
4.	<i>Equisetum fluviatile</i>	10	No	OBL
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
		80	= Total Cover	
Woody Vine Stratum (Plot size: <u>30 ft</u>)		Absolute % Cover	Dominant Species?	Indicator Status
1.				
2.				
3.				
4.				
		0	= Total Cover	

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 5 (A)

Total Number of Dominant Species Across All Strata: 5 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply By:	
OBL species	<u>85</u>	x 1 =	<u>85</u>
FACW species	<u>5</u>	x 2 =	<u>10</u>
FAC species	<u>20</u>	x 3 =	<u>60</u>
FACU species	<u>0</u>	x 4 =	<u>0</u>
UPL species	<u>0</u>	x 5 =	<u>0</u>
Column Totals	<u>110</u>	(A)	<u>155</u> (B)
Prevalence Index = B/A = <u>1.4</u>			

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 at 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 size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? Yes ☒ No

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: W-NWJ-14; PEM-1

[illegible]

Hydrology Photos



Vegetation Photos



Soil Photos



WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Trelina City/County: Waterloo, Seneca Sampling Date: 2019-June-25
 Applicant/Owner: NextEra State: NY Sampling Point: W-NWJ-14; PFO-1
 Investigator(s): Nick DeJohn, Nate Jones Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none): Concave Slope (%): 0-1
 Subregion (LRR or MLRA): LRR R Lat: 42.8926954559 Long: -76.9305363391 Datum: WGS84
 Soil Map Unit Name: Cosad loamy fine sand NWI classification: _____
 Are climatic/hydrologic conditions on the site typical for this time of year? Yes ____ No ☒ (If no, explain in Remarks.)
 Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes ☒ No ____
 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?	Yes <input checked="" type="checkbox"/> No ____	
Hydric Soil Present?	Yes <input checked="" type="checkbox"/> No ____	Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No ____
Wetland Hydrology Present?	Yes <input checked="" type="checkbox"/> No ____	If yes, optional Wetland Site ID: <u>W-NWJ-14</u>
Remarks: (Explain alternative procedures here or in a separate report) TRC coverype is PFO. Wetter than average year		

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u>				<u>Secondary Indicators (minimum of two required)</u>	
<input checked="" type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)			
<input checked="" type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)			
<input checked="" type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)	<input type="checkbox"/> Moss Trim Lines (B16)			
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Dry-Season Water Table (C2)			
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Crayfish Burrows (C8)			
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)			
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input checked="" type="checkbox"/> Stunted or Stressed Plants (D1)			
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input checked="" type="checkbox"/> Geomorphic Position (D2)			
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)			
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<input checked="" type="checkbox"/> Microtopographic Relief (D4)			
		<input type="checkbox"/> FAC-Neutral Test (D5)			
Field Observations:					
Surface Water Present?	Yes <input checked="" type="checkbox"/> No ____	Depth (inches):	<u>1</u>	Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No ____	
Water Table Present?	Yes <input checked="" type="checkbox"/> No ____	Depth (inches):	<u>0</u>		
Saturation Present?	Yes <input checked="" type="checkbox"/> No ____	Depth (inches):	<u>0</u>		
(includes capillary fringe)					
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:					
Remarks:					

VEGETATION -- Use scientific names of plants.

Sampling Point: W-NWJ-14; PFO-1

Tree Stratum (Plot size: <u>30 ft</u>)	Absolute % Cover	Dominant Species?	Indicator Status																																									
1. <i>Fraxinus pennsylvanica</i>	25	Yes	FACW	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>4</u> (A) Total Number of Dominant Species Across All Strata: <u>6</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>66.7</u> (A/B)																																								
2. <i>Populus deltoides</i>	10	Yes	FAC																																									
3.																																												
4.																																												
5.																																												
6.																																												
7.																																												
	35	= Total Cover		Prevalence Index worksheet: <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 40%;">Total % Cover of:</th> <th style="width: 10%;"></th> <th style="width: 10%;">Multiply By:</th> <th style="width: 10%;"></th> <th style="width: 10%;"></th> </tr> </thead> <tbody> <tr> <td>OBL species</td> <td>0</td> <td>x 1 =</td> <td>0</td> <td></td> </tr> <tr> <td>FACW species</td> <td>25</td> <td>x 2 =</td> <td>50</td> <td></td> </tr> <tr> <td>FAC species</td> <td>90</td> <td>x 3 =</td> <td>270</td> <td></td> </tr> <tr> <td>FACU species</td> <td>35</td> <td>x 4 =</td> <td>140</td> <td></td> </tr> <tr> <td>UPL species</td> <td>0</td> <td>x 5 =</td> <td>0</td> <td></td> </tr> <tr> <td>Column Totals</td> <td>150</td> <td>(A)</td> <td>460</td> <td>(B)</td> </tr> <tr> <td colspan="4">Prevalence Index = B/A =</td> <td><u>3.1</u></td> </tr> </tbody> </table>	Total % Cover of:		Multiply By:			OBL species	0	x 1 =	0		FACW species	25	x 2 =	50		FAC species	90	x 3 =	270		FACU species	35	x 4 =	140		UPL species	0	x 5 =	0		Column Totals	150	(A)	460	(B)	Prevalence Index = B/A =				<u>3.1</u>
Total % Cover of:		Multiply By:																																										
OBL species	0	x 1 =	0																																									
FACW species	25	x 2 =	50																																									
FAC species	90	x 3 =	270																																									
FACU species	35	x 4 =	140																																									
UPL species	0	x 5 =	0																																									
Column Totals	150	(A)	460	(B)																																								
Prevalence Index = B/A =				<u>3.1</u>																																								
Sapling/Shrub Stratum (Plot size: <u>15 ft</u>)																																												
1. <i>Rhamnus cathartica</i>	40	Yes	FAC																																									
2.																																												
3.																																												
4.																																												
5.																																												
6.																																												
7.																																												
	40	= Total Cover																																										
Herb Stratum (Plot size: <u>5 ft</u>)																																												
1. <i>Toxicodendron radicans</i>	40	Yes	FAC	Hydrophytic Vegetation Indicators: ___ 1- Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is >50% ___ 3 - Prevalence Index is ≤ 3.0 ¹ ___ 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) ___ Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic																																								
2. <i>Parthenocissus quinquefolia</i>	20	Yes	FACU																																									
3. <i>Solidago caesia</i>	15	Yes	FACU																																									
4.																																												
5.																																												
6.																																												
7.																																												
8.																																												
9.																																												
10.																																												
11.																																												
12.																																												
	75	= Total Cover																																										
Woody Vine Stratum (Plot size: <u>30 ft</u>)																																												
1.				Definitions of Vegetation Strata: Tree – Woody plants 3 in. (7.6 cm) or more in diameter at 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 size, and woody plants less than 3.28 ft tall. Woody vines – All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No ___																																								
2.																																												
3.																																												
4.																																												
	0	= Total Cover																																										

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: W-NWJ-14; PFO-1

[illegible]

Hydrology Photos



Vegetation Photos



Soil Photos



WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Trelina City/County: Waterloo, Seneca Sampling Date: 2019-June-25
 Applicant/Owner: NextEra State: NY Sampling Point: W-NWJ-14; UPL-1
 Investigator(s): Nick DeJohn, Nate Jones Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): Agricultural Field Local relief (concave, convex, none): Flat Slope (%): 0-1
 Subregion (LRR or MLRA): LRR L Lat: 42.8926653229 Long: -76.930575315 Datum: WGS84
 Soil Map Unit Name: Cosad loamy fine sand NWI classification: _____
 Are climatic/hydrologic conditions on the site typical for this time of year? Yes ____ No ✓ (If no, explain in Remarks.)
 Are Vegetation ✓, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes ✓ No ____
 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?	Yes ____ No <u>✓</u>	
Hydric Soil Present?	Yes ____ No <u>✓</u>	Is the Sampled Area within a Wetland? Yes ____ No <u>✓</u>
Wetland Hydrology Present?	Yes ____ No <u>✓</u>	If yes, optional Wetland Site ID: _____
Remarks: (Explain alternative procedures here or in a separate report) TRC coverype is UPL. Circumstances are not normal due to agricultural activities, Recent rain		

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u>			<u>Secondary Indicators (minimum of two required)</u>		
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)			
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)			
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)	<input type="checkbox"/> Moss Trim Lines (B16)			
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Dry-Season Water Table (C2)			
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Crayfish Burrows (C8)			
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)			
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Stunted or Stressed Plants (D1)			
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Geomorphic Position (D2)			
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)			
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<input type="checkbox"/> Microtopographic Relief (D4)			
		<input type="checkbox"/> FAC-Neutral Test (D5)			
Field Observations: Surface Water Present? Yes ____ No <u>✓</u> Depth (inches): _____ Water Table Present? Yes ____ No <u>✓</u> Depth (inches): _____ Saturation Present? Yes ____ No <u>✓</u> Depth (inches): _____ (includes capillary fringe)			Wetland Hydrology Present? Yes ____ No <u>✓</u>		
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: 					
Remarks:					

VEGETATION -- Use scientific names of plants.

Sampling Point: W-NWJ-14; UPL-1

Tree Stratum (Plot size: <u>30 ft</u>)	Absolute % Cover	Dominant Species?	Indicator Status																																																	
1. _____	_____	_____	_____	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A/B)																																																
2. _____	_____	_____	_____																																																	
3. _____	_____	_____	_____																																																	
4. _____	_____	_____	_____																																																	
5. _____	_____	_____	_____																																																	
6. _____	_____	_____	_____																																																	
7. _____	_____	_____	_____																																																	
	0	= Total Cover		Prevalence Index worksheet: <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 40%;"></th> <th style="width: 10%; text-align: center;">Total % Cover of:</th> <th style="width: 10%;"></th> <th style="width: 10%; text-align: center;">Multiply By:</th> <th style="width: 10%;"></th> <th style="width: 10%;"></th> </tr> </thead> <tbody> <tr> <td>OBL species</td> <td style="text-align: center;">0</td> <td>x 1 =</td> <td></td> <td style="text-align: center;">0</td> <td></td> </tr> <tr> <td>FACW species</td> <td style="text-align: center;">0</td> <td>x 2 =</td> <td></td> <td style="text-align: center;">0</td> <td></td> </tr> <tr> <td>FAC species</td> <td style="text-align: center;">0</td> <td>x 3 =</td> <td></td> <td style="text-align: center;">0</td> <td></td> </tr> <tr> <td>FACU species</td> <td style="text-align: center;">15</td> <td>x 4 =</td> <td></td> <td style="text-align: center;">60</td> <td></td> </tr> <tr> <td>UPL species</td> <td style="text-align: center;">0</td> <td>x 5 =</td> <td></td> <td style="text-align: center;">0</td> <td></td> </tr> <tr> <td>Column Totals</td> <td style="text-align: center;">15</td> <td></td> <td>(A)</td> <td style="text-align: center;">60</td> <td>(B)</td> </tr> <tr> <td colspan="6" style="text-align: center;">Prevalence Index = B/A = <u>4</u></td> </tr> </tbody> </table>		Total % Cover of:		Multiply By:			OBL species	0	x 1 =		0		FACW species	0	x 2 =		0		FAC species	0	x 3 =		0		FACU species	15	x 4 =		60		UPL species	0	x 5 =		0		Column Totals	15		(A)	60	(B)	Prevalence Index = B/A = <u>4</u>					
	Total % Cover of:		Multiply By:																																																	
OBL species	0	x 1 =			0																																															
FACW species	0	x 2 =			0																																															
FAC species	0	x 3 =			0																																															
FACU species	15	x 4 =			60																																															
UPL species	0	x 5 =			0																																															
Column Totals	15		(A)	60	(B)																																															
Prevalence Index = B/A = <u>4</u>																																																				
				Hydrophytic Vegetation Indicators: ____ 1- Rapid Test for Hydrophytic Vegetation ____ 2 - Dominance Test is > 50% ____ 3 - Prevalence Index is ≤ 3.0 ¹ ____ 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) ____ Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic																																																
1. _____	_____	_____	_____																																																	
2. _____	_____	_____	_____																																																	
3. _____	_____	_____	_____																																																	
4. _____	_____	_____	_____																																																	
5. _____	_____	_____	_____																																																	
6. _____	_____	_____	_____																																																	
	0	= Total Cover		Definitions of Vegetation Strata: Tree – Woody plants 3 in. (7.6 cm) or more in diameter at 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 size, and woody plants less than 3.28 ft tall. Woody vines – All woody vines greater than 3.28 ft in height.																																																
7. _____	_____	_____	_____																																																	
8. _____	_____	_____	_____																																																	
9. _____	_____	_____	_____																																																	
10. _____	_____	_____	_____																																																	
11. _____	_____	_____	_____																																																	
12. _____	_____	_____	_____																																																	
	15	= Total Cover		Hydrophytic Vegetation Present? Yes ____ No <u>✓</u>																																																
1. _____	_____	_____	_____																																																	
2. _____	_____	_____	_____																																																	
3. _____	_____	_____	_____																																																	
4. _____	_____	_____	_____																																																	
	0	= Total Cover																																																		

Remarks: (Include photo numbers here or on a separate sheet.)

 Fallow field

SOIL

Sampling Point: W-NWJ-14; UPL-1

[illegible]

Hydrology Photos



Vegetation Photos



Soil Photos



WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Trelina City/County: Waterloo, Seneca Sampling Date: 2019-June-25
 Applicant/Owner: NextEra State: NY Sampling Point: W-NWJ-15; PEM-1
 Investigator(s): Nick DeJohn, Nate Jones Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none): Concave Slope (%): 0-1
 Subregion (LRR or MLRA): LRR L Lat: 42.892848677 Long: -76.9297915232 Datum: WGS84
 Soil Map Unit Name: Cosad loamy fine sand NWI classification: _____
 Are climatic/hydrologic conditions on the site typical for this time of year? Yes ____ No ✓ (If no, explain in Remarks.)
 Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes ✓ No ____
 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?	Yes <u>✓</u> No ____	
Hydric Soil Present?	Yes <u>✓</u> No ____	Is the Sampled Area within a Wetland? Yes <u>✓</u> No ____
Wetland Hydrology Present?	Yes <u>✓</u> No ____	If yes, optional Wetland Site ID: W-NWJ-15
Remarks: (Explain alternative procedures here or in a separate report) TRC coverype is PEM. Wetter than average year		

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u>				<u>Secondary Indicators (minimum of two required)</u>	
<input checked="" type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)			
<input checked="" type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)			
<input checked="" type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)	<input type="checkbox"/> Moss Trim Lines (B16)			
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Dry-Season Water Table (C2)			
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Crayfish Burrows (C8)			
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)			
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Stunted or Stressed Plants (D1)			
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Geomorphic Position (D2)			
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)			
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<input type="checkbox"/> Microtopographic Relief (D4)			
		<input checked="" type="checkbox"/> FAC-Neutral Test (D5)			
Field Observations:					
Surface Water Present?	Yes <u>✓</u> No ____	Depth (inches):	<u>1</u>	Wetland Hydrology Present? Yes <u>✓</u> No ____	
Water Table Present?	Yes <u>✓</u> No ____	Depth (inches):	<u>0</u>		
Saturation Present?	Yes <u>✓</u> No ____	Depth (inches):	<u>0</u>		
(includes capillary fringe)					
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:					
Remarks:					

Sampling Point: W-NWJ-15; PEM-1

Tree Stratum (Plot size: 30 ft)			Absolute % Cover	Dominant Species?	Indicator Status
1.					
2.					
3.					
4.					
5.					
6.					
7.					
			0	= Total Cover	
Sapling/Shrub Stratum (Plot size: 15 ft)			Absolute % Cover	Dominant Species?	Indicator Status
1.					
2.					
3.					
4.					
5.					
6.					
7.					
			0	= Total Cover	
Herb Stratum (Plot size: 5 ft)			Absolute % Cover	Dominant Species?	Indicator Status
1.	<i>Eleocharis palustris</i>		70	Yes	OBL
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
			70	= Total Cover	
Woody Vine Stratum (Plot size: 30 ft)			Absolute % Cover	Dominant Species?	Indicator Status
1.					
2.					
3.					
4.					
			0	= Total Cover	

Remarks: (Include photo numbers here or on a separate sheet.)

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)

Total Number of Dominant Species Across All Strata: 1 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply By:
OBL species 70	x 1 = 70
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 70	(A) 70 (B)
Prevalence Index = B/A = 1	

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 at 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 size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? Yes ☒ No ☐

SOIL

Sampling Point: W-NWJ-15; PEM-1

[illegible]

Hydrology Photos



Vegetation Photos



Soil Photos



WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Trelina City/County: Waterloo, Seneca Sampling Date: 2019-June-25
 Applicant/Owner: NextEra State: NY Sampling Point: W-NWJ-15; PFO-1
 Investigator(s): Nick DeJohn, Nate Jones Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none): Concave Slope (%): 0-1
 Subregion (LRR or MLRA): LRR L Lat: 42.8925183043 Long: -76.9298813772 Datum: WGS84
 Soil Map Unit Name: Cosad loamy fine sand NWI classification: _____
 Are climatic/hydrologic conditions on the site typical for this time of year? Yes ____ No ☒ (If no, explain in Remarks.)
 Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes ☒ No ____
 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?	Yes <input checked="" type="checkbox"/> No ____	
Hydric Soil Present?	Yes <input checked="" type="checkbox"/> No ____	Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No ____
Wetland Hydrology Present?	Yes <input checked="" type="checkbox"/> No ____	If yes, optional Wetland Site ID: W-NWJ-15
Remarks: (Explain alternative procedures here or in a separate report) TRC coverype is PFO. Wetter than average year		

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u>				<u>Secondary Indicators (minimum of two required)</u>	
<input checked="" type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)			
<input checked="" type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)			
<input checked="" type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)	<input type="checkbox"/> Moss Trim Lines (B16)			
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Dry-Season Water Table (C2)			
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Crayfish Burrows (C8)			
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)			
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Stunted or Stressed Plants (D1)			
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Geomorphic Position (D2)			
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)			
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<input type="checkbox"/> Microtopographic Relief (D4)			
		<input type="checkbox"/> FAC-Neutral Test (D5)			
Field Observations:					
Surface Water Present?	Yes <input checked="" type="checkbox"/> No ____	Depth (inches):	<u>2</u>	Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No ____	
Water Table Present?	Yes <input checked="" type="checkbox"/> No ____	Depth (inches):	<u>0</u>		
Saturation Present?	Yes <input checked="" type="checkbox"/> No ____	Depth (inches):	<u>0</u>		
(includes capillary fringe)					
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:					
Remarks:					

VEGETATION -- Use scientific names of plants.

Sampling Point: W-NWJ-15; PFO-1

Tree Stratum (Plot size: <u>30 ft</u>)				Dominance Test worksheet:	
	Absolute % Cover	Dominant Species?	Indicator Status		
1. <i>Fraxinus pennsylvanica</i>	60	Yes	FACW	Number of Dominant Species That Are OBL, FACW, or FAC:	3 (A)
2. _____	_____	_____	_____	Total Number of Dominant Species Across All Strata:	4 (B)
3. _____	_____	_____	_____	Percent of Dominant Species That Are OBL, FACW, or FAC:	75 (A/B)
4. _____	_____	_____	_____	Prevalence Index worksheet:	
5. _____	_____	_____	_____	Total % Cover of:	Multiply By:
6. _____	_____	_____	_____	OBL species	0 x 1 = 0
7. _____	_____	_____	_____	FACW species	60 x 2 = 120
	60 = Total Cover			FAC species	57 x 3 = 171
Sapling/Shrub Stratum (Plot size: <u>15 ft</u>)				FACU species	20 x 4 = 80
1. <i>Rhamnus cathartica</i>	15	Yes	FAC	UPL species	0 x 5 = 0
2. _____	_____	_____	_____	Column Totals	137 (A) 371 (B)
3. _____	_____	_____	_____	Prevalence Index = B/A =	2.7
4. _____	_____	_____	_____	Hydrophytic Vegetation Indicators:	
5. _____	_____	_____	_____	____ 1- Rapid Test for Hydrophytic Vegetation	
6. _____	_____	_____	_____	<input checked="" type="checkbox"/> 2 - Dominance Test is >50%	
7. _____	_____	_____	_____	<input checked="" type="checkbox"/> 3 - Prevalence Index is ≤ 3.0 ¹	
	15 = Total Cover			____ 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)	
Herb Stratum (Plot size: <u>5 ft</u>)				____ Problematic Hydrophytic Vegetation ¹ (Explain)	
1. <i>Toxicodendron radicans</i>	35	Yes	FAC	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic	
2. <i>Parthenocissus quinquefolia</i>	20	Yes	FACU	Definitions of Vegetation Strata:	
3. <i>Persicaria virginiana</i>	5	No	FAC	Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.	
4. _____	_____	_____	_____	Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.	
5. _____	_____	_____	_____	Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.	
6. _____	_____	_____	_____	Woody vines – All woody vines greater than 3.28 ft in height.	
7. _____	_____	_____	_____	Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No _____	
8. _____	_____	_____	_____		
9. _____	_____	_____	_____		
10. _____	_____	_____	_____		
11. _____	_____	_____	_____		
12. _____	_____	_____	_____		
	60 = Total Cover				
Woody Vine Stratum (Plot size: <u>30 ft</u>)					
1. <i>Toxicodendron radicans</i>	2	No	FAC		
2. _____	_____	_____	_____		
3. _____	_____	_____	_____		
4. _____	_____	_____	_____		
	2 = Total Cover				
Remarks: (Include photo numbers here or on a separate sheet.)					

SOIL

Sampling Point: W-NWJ-15; PFO-1

[illegible]

Hydrology Photos



Soil Photos



WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Trelina City/County: Waterloo, Seneca Sampling Date: 2019-June-25
 Applicant/Owner: NextEra State: NY Sampling Point: W-NWJ-15; UPL-1
 Investigator(s): Nick DeJohn, Nate Jones Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): Agricultural Field Local relief (concave, convex, none): Flat Slope (%): 0-1
 Subregion (LRR or MLRA): LRR R Lat: 42.8925640276 Long: -76.9298035093 Datum: WGS84
 Soil Map Unit Name: Cosad loamy fine sand NWI classification: _____
 Are climatic/hydrologic conditions on the site typical for this time of year? Yes ____ No ✓ (If no, explain in Remarks.)
 Are Vegetation ✓, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes ✓ No ____
 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?	Yes ____ No <u>✓</u>	
Hydric Soil Present?	Yes ____ No <u>✓</u>	Is the Sampled Area within a Wetland? Yes ____ No <u>✓</u>
Wetland Hydrology Present?	Yes ____ No <u>✓</u>	If yes, optional Wetland Site ID: _____
Remarks: (Explain alternative procedures here or in a separate report) TRC coverype is UPL. Circumstances are not normal due to agricultural activities, Recent rain		

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u>			<u>Secondary Indicators (minimum of two required)</u>		
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)			
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)			
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)	<input type="checkbox"/> Moss Trim Lines (B16)			
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Dry-Season Water Table (C2)			
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Crayfish Burrows (C8)			
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)			
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Stunted or Stressed Plants (D1)			
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Geomorphic Position (D2)			
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)			
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<input type="checkbox"/> Microtopographic Relief (D4)			
		<input type="checkbox"/> FAC-Neutral Test (D5)			
Field Observations:					
Surface Water Present?	Yes ____ No <u>✓</u>	Depth (inches): _____	Wetland Hydrology Present? Yes ____ No <u>✓</u>		
Water Table Present?	Yes ____ No <u>✓</u>	Depth (inches): _____			
Saturation Present?	Yes ____ No <u>✓</u>	Depth (inches): _____			
(includes capillary fringe)					
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:					
Remarks:					

VEGETATION -- Use scientific names of plants.

Sampling Point: W-NWJ-15; UPL-1

Tree Stratum (Plot size: <u>30 ft</u>)	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
	<u>0</u>	= Total Cover		
Sapling/Shrub Stratum (Plot size: <u>15 ft</u>)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
	<u>0</u>	= Total Cover		
Herb Stratum (Plot size: <u>5 ft</u>)				
1. <i>Ambrosia artemisiifolia</i>	25	Yes	FACU	
2. <i>Plantago major</i>	5	No	FACU	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
11. _____	_____	_____	_____	
12. _____	_____	_____	_____	
	<u>30</u>	= Total Cover		
Woody Vine Stratum (Plot size: <u>30 ft</u>)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
	<u>0</u>	= Total Cover		

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)

Total Number of Dominant Species Across All Strata: 1 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 0 (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply By:
OBL species <u>0</u>	x 1 = <u>0</u>
FACW species <u>0</u>	x 2 = <u>0</u>
FAC species <u>0</u>	x 3 = <u>0</u>
FACU species <u>30</u>	x 4 = <u>120</u>
UPL species <u>0</u>	x 5 = <u>0</u>
Column Totals <u>30</u>	(A) <u>120</u> (B)

Prevalence Index = B/A = 4

Hydrophytic Vegetation Indicators:

____ 1- Rapid Test for Hydrophytic Vegetation

____ 2 - Dominance Test is > 50%

____ 3 - Prevalence Index is ≤ 3.0¹

____ 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)

____ Problematic Hydrophytic Vegetation¹ (Explain)

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 at 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 size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? Yes ____ No ✓

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: W-NWJ-15; UPL-1

[illegible]

Vegetation Photos



Soil Photos



WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Trelina City/County: Geneva, Seneca Sampling Date: 2019-June-25
 Applicant/Owner: NextEra State: NY Sampling Point: W-NWJ-16; PEM-1
 Investigator(s): Nick DeJohn, Nate Jones Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none): Concave Slope (%): 0-1
 Subregion (LRR or MLRA): LRR R Lat: 42.892328 Long: -76.926437 Datum: WGS84
 Soil Map Unit Name: Cosad loamy fine sand NWI classification: _____
 Are climatic/hydrologic conditions on the site typical for this time of year? Yes ☒ No ____ (If no, explain in Remarks.)
 Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes ____ No ☒
 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?	Yes <input checked="" type="checkbox"/> No ____	Is the Sampled Area within a Wetland?	Yes <input checked="" type="checkbox"/> No ____
Hydric Soil Present?	Yes <input checked="" type="checkbox"/> No ____	If yes, optional Wetland Site ID:	W-NWJ-16
Wetland Hydrology Present?	Yes <input checked="" type="checkbox"/> No ____		
Remarks: (Explain alternative procedures here or in a separate report)			
TRC coertype is PEM. Circumstances are not normal due to agricultural activities			

HYDROLOGY

Wetland Hydrology Indicators:			
Primary Indicators (minimum of one is required; check all that apply)		Secondary Indicators (minimum of two required)	
<input checked="" type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)	
<input checked="" type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)	
<input checked="" type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)	<input type="checkbox"/> Moss Trim Lines (B16)	
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Dry-Season Water Table (C2)	
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Crayfish Burrows (C8)	
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)	
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input checked="" type="checkbox"/> Stunted or Stressed Plants (D1)	
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input checked="" type="checkbox"/> Geomorphic Position (D2)	
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)	
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<input type="checkbox"/> Microtopographic Relief (D4)	
		<input checked="" type="checkbox"/> FAC-Neutral Test (D5)	
Field Observations:			
Surface Water Present?	Yes <input checked="" type="checkbox"/> No ____	Depth (inches):	<u>2</u>
Water Table Present?	Yes <input checked="" type="checkbox"/> No ____	Depth (inches):	<u>0</u>
Saturation Present?	Yes <input checked="" type="checkbox"/> No ____	Depth (inches):	<u>0</u>
(includes capillary fringe)			
Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No ____			
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:			
Remarks:			

VEGETATION -- Use scientific names of plants.

Sampling Point: W-NWJ-16; PEM-1

Tree Stratum (Plot size: <u>30 ft</u>)	Absolute % Cover	Dominant Species?	Indicator Status		
1. _____	_____	_____	_____		
2. _____	_____	_____	_____		
3. _____	_____	_____	_____		
4. _____	_____	_____	_____		
5. _____	_____	_____	_____		
6. _____	_____	_____	_____		
7. _____	_____	_____	_____		
	0	= Total Cover			
Sapling/Shrub Stratum (Plot size: <u>15 ft</u>)					
1. _____	_____	_____	_____		
2. _____	_____	_____	_____		
3. _____	_____	_____	_____		
4. _____	_____	_____	_____		
5. _____	_____	_____	_____		
6. _____	_____	_____	_____		
7. _____	_____	_____	_____		
	0	= Total Cover			
Herb Stratum (Plot size: <u>5 ft</u>)					
1. <i>Juncus tenuis</i>	40	Yes	FAC		
2. <i>Eleocharis obtusa</i>	20	Yes	OBL		
3. <i>Ranunculus sceleratus</i>	15	Yes	OBL		
4. _____	_____	_____	_____		
5. _____	_____	_____	_____		
6. _____	_____	_____	_____		
7. _____	_____	_____	_____		
8. _____	_____	_____	_____		
9. _____	_____	_____	_____		
10. _____	_____	_____	_____		
11. _____	_____	_____	_____		
12. _____	_____	_____	_____		
	75	= Total Cover			
Woody Vine Stratum (Plot size: <u>30 ft</u>)					
1. _____	_____	_____	_____		
2. _____	_____	_____	_____		
3. _____	_____	_____	_____		
4. _____	_____	_____	_____		
	0	= Total Cover			

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 3 (A)

Total Number of Dominant Species Across All Strata: 3 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply By:	
OBL species	35	x 1 =	35
FACW species	0	x 2 =	0
FAC species	40	x 3 =	120
FACU species	0	x 4 =	0
UPL species	0	x 5 =	0
Column Totals	75	(A)	155 (B)
Prevalence Index = B/A = 2.1			

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 at 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 size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? Yes ☒ No ____

Remarks: (Include photo numbers here or on a separate sheet.)

Active agricultural field

SOIL

Sampling Point: W-NWJ-16; PEM-1

[illegible]

Vegetation Photos



Soil Photos



WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Trelina City/County: Geneva, Seneca Sampling Date: 2019-June-25
 Applicant/Owner: NextEra State: NY Sampling Point: W-NWJ-16; UPL-1
 Investigator(s): Nick DeJohn, Nate Jones Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): Agricultural Field Local relief (concave, convex, none): Flat Slope (%): 0-1
 Subregion (LRR or MLRA): LRR R Lat: 42.892345 Long: -76.926628 Datum: WGS84
 Soil Map Unit Name: Cosad loamy fine sand NWI classification: _____
 Are climatic/hydrologic conditions on the site typical for this time of year? Yes ☒ No ____ (If no, explain in Remarks.)
 Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes ____ No ☒
 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?	Yes ____ No <input checked="" type="checkbox"/>	
Hydric Soil Present?	Yes ____ No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland? Yes ____ No <input checked="" type="checkbox"/>
Wetland Hydrology Present?	Yes ____ No <input checked="" type="checkbox"/>	If yes, optional Wetland Site ID: _____
Remarks: (Explain alternative procedures here or in a separate report)		
TRC coverype is UPL. Circumstances are not normal due to agricultural activities		

HYDROLOGY

Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply)			Secondary Indicators (minimum of two required)		
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)			
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)			
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)	<input type="checkbox"/> Moss Trim Lines (B16)			
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Dry-Season Water Table (C2)			
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Crayfish Burrows (C8)			
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)			
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Stunted or Stressed Plants (D1)			
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Geomorphic Position (D2)			
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)			
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<input type="checkbox"/> Microtopographic Relief (D4)			
		<input type="checkbox"/> FAC-Neutral Test (D5)			
Field Observations:					
Surface Water Present?	Yes ____ No <input checked="" type="checkbox"/>	Depth (inches): _____	Wetland Hydrology Present? Yes ____ No <input checked="" type="checkbox"/>		
Water Table Present?	Yes ____ No <input checked="" type="checkbox"/>	Depth (inches): _____			
Saturation Present?	Yes ____ No <input checked="" type="checkbox"/>	Depth (inches): _____			
(includes capillary fringe)					
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:					
Remarks:					

VEGETATION -- Use scientific names of plants.

Sampling Point: W-NWJ-16; UPL-1

Tree Stratum (Plot size: <u>30 ft</u>)	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
	0	= Total Cover		
Sapling/Shrub Stratum (Plot size: <u>15 ft</u>)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
	0	= Total Cover		
Herb Stratum (Plot size: <u>5 ft</u>)				
1. <i>Ambrosia artemisiifolia</i>	30	Yes	FACU	
2. <i>Juncus tenuis</i>	10	Yes	FAC	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
11. _____	_____	_____	_____	
12. _____	_____	_____	_____	
	40	= Total Cover		
Woody Vine Stratum (Plot size: <u>30 ft</u>)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
	0	= Total Cover		

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)

Total Number of Dominant Species Across All Strata: 2 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 50 (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply By:
OBL species 0	x 1 = 0
FACW species 0	x 2 = 0
FAC species 10	x 3 = 30
FACU species 30	x 4 = 120
UPL species 0	x 5 = 0
Column Totals 40	(A) 150 (B)

Prevalence Index = B/A = 3.8

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 at 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 size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? Yes ____ No ☒

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: W-NWJ-16; UPL-1

[illegible]

Vegetation Photos



Soil Photos



WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Trelina City/County: Waterloo, Seneca Sampling Date: 2019-June-26
 Applicant/Owner: NextEra State: NY Sampling Point: W-NWJ-17; PEM-1
 Investigator(s): Nick DeJohn, Nate Jones Section, Township, Range:
 Landform (hillslope, terrace, etc.): Agricultural Field Local relief (concave, convex, none): Flat Slope (%): 0-1
 Subregion (LRR or MLRA): LRR L Lat: 42.8943665559 Long: -76.929425234 Datum: WGS84
 Soil Map Unit Name: Odessa silt loam, 0 to 2 percent slopes NWI classification:
 Are climatic/hydrologic conditions on the site typical for this time of year? Yes ___ No ☒ (If no, explain in Remarks.)
 Are Vegetation ☒ Soil ___ or Hydrology ___ significantly disturbed? Are "Normal Circumstances" present? Yes ☒ No ___
 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?	Yes <input checked="" type="checkbox"/> No ___	Is the Sampled Area within a Wetland?	Yes <input checked="" type="checkbox"/> No ___
Hydric Soil Present?	Yes <input checked="" type="checkbox"/> No ___	If yes, optional Wetland Site ID:	W-NWJ-17
Wetland Hydrology Present?	Yes <input checked="" type="checkbox"/> No ___		
Remarks: (Explain alternative procedures here or in a separate report)			
TRC coverype is PEM. Circumstances are not normal due to agricultural activities, Wetter than average year			

HYDROLOGY

Wetland Hydrology Indicators:			
Primary Indicators (minimum of one is required; check all that apply)		Secondary Indicators (minimum of two required)	
<input checked="" type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)	
<input checked="" type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)	
<input checked="" type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)	<input type="checkbox"/> Moss Trim Lines (B16)	
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Dry-Season Water Table (C2)	
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Crayfish Burrows (C8)	
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)	
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Stunted or Stressed Plants (D1)	
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Geomorphic Position (D2)	
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)	
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<input type="checkbox"/> Microtopographic Relief (D4)	
		<input checked="" type="checkbox"/> FAC-Neutral Test (D5)	
Field Observations:			
Surface Water Present?	Yes <input checked="" type="checkbox"/> No ___	Depth (inches):	1
Water Table Present?	Yes <input checked="" type="checkbox"/> No ___	Depth (inches):	0
Saturation Present?	Yes <input checked="" type="checkbox"/> No ___	Depth (inches):	0
(includes capillary fringe)		Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No ___	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:			
Remarks:			

Sampling Point: W-NWJ-17; PEM-1

Northcentral and Northeast Region -- Version 2.0 Adapted by TRC

SOIL

Sampling Point: W-NWJ-17; PEM-1

[illegible]

Hydrology Photos



Vegetation Photos



Soil Photos



WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Trelina City/County: Waterloo, Seneca Sampling Date: 2019-June-26
 Applicant/Owner: NextEra State: NY Sampling Point: W-NWJ-17; UPL-1
 Investigator(s): Nick DeJohn, Nate Jones Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): Agricultural Field Local relief (concave, convex, none): Flat Slope (%): 0-1
 Subregion (LRR or MLRA): LRR L Lat: 42.894460978 Long: -76.9297127333 Datum: WGS84
 Soil Map Unit Name: Odessa silt loam, 0 to 2 percent slopes NWI classification: _____
 Are climatic/hydrologic conditions on the site typical for this time of year? Yes ____ No ✓ (If no, explain in Remarks.)
 Are Vegetation ✓, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes ✓ No ____
 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?	Yes ____ No <u>✓</u>	
Hydric Soil Present?	Yes ____ No <u>✓</u>	Is the Sampled Area within a Wetland? Yes ____ No <u>✓</u>
Wetland Hydrology Present?	Yes ____ No <u>✓</u>	If yes, optional Wetland Site ID: _____
Remarks: (Explain alternative procedures here or in a separate report) TRC coverype is UPL. Circumstances are not normal due to agricultural activities, Wetter than average year		

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u>			<u>Secondary Indicators (minimum of two required)</u>		
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)			
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)			
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)	<input type="checkbox"/> Moss Trim Lines (B16)			
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Dry-Season Water Table (C2)			
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Crayfish Burrows (C8)			
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)			
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Stunted or Stressed Plants (D1)			
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Geomorphic Position (D2)			
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)			
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<input type="checkbox"/> Microtopographic Relief (D4)			
		<input type="checkbox"/> FAC-Neutral Test (D5)			
Field Observations:					
Surface Water Present?	Yes ____ No <u>✓</u>	Depth (inches): _____	Wetland Hydrology Present? Yes ____ No <u>✓</u>		
Water Table Present?	Yes ____ No <u>✓</u>	Depth (inches): _____			
Saturation Present?	Yes ____ No <u>✓</u>	Depth (inches): _____			
(includes capillary fringe)					
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:					
Remarks:					

VEGETATION -- Use scientific names of plants.

Sampling Point: W-NWJ-17; UPL-1

Tree Stratum (Plot size: <u>30 ft</u>)	Absolute % Cover	Dominant Species?	Indicator Status																																																	
1. _____	_____	_____	_____	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A/B)																																																
2. _____	_____	_____	_____																																																	
3. _____	_____	_____	_____																																																	
4. _____	_____	_____	_____																																																	
5. _____	_____	_____	_____																																																	
6. _____	_____	_____	_____																																																	
7. _____	_____	_____	_____																																																	
	<u>0</u>	= Total Cover		Prevalence Index worksheet: <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 30%;"></th> <th style="width: 10%; text-align: center;">Total % Cover of:</th> <th style="width: 10%;"></th> <th style="width: 10%; text-align: center;">Multiply By:</th> <th style="width: 10%;"></th> <th style="width: 10%;"></th> </tr> </thead> <tbody> <tr> <td>OBL species</td> <td style="text-align: center;"><u>0</u></td> <td>x 1 =</td> <td></td> <td style="text-align: center;"><u>0</u></td> <td></td> </tr> <tr> <td>FACW species</td> <td style="text-align: center;"><u>0</u></td> <td>x 2 =</td> <td></td> <td style="text-align: center;"><u>0</u></td> <td></td> </tr> <tr> <td>FAC species</td> <td style="text-align: center;"><u>0</u></td> <td>x 3 =</td> <td></td> <td style="text-align: center;"><u>0</u></td> <td></td> </tr> <tr> <td>FACU species</td> <td style="text-align: center;"><u>45</u></td> <td>x 4 =</td> <td></td> <td style="text-align: center;"><u>180</u></td> <td></td> </tr> <tr> <td>UPL species</td> <td style="text-align: center;"><u>0</u></td> <td>x 5 =</td> <td></td> <td style="text-align: center;"><u>0</u></td> <td></td> </tr> <tr> <td>Column Totals</td> <td style="text-align: center;"><u>45</u></td> <td>(A)</td> <td></td> <td style="text-align: center;"><u>180</u></td> <td>(B)</td> </tr> <tr> <td colspan="6">Prevalence Index = B/A = <u>4</u></td> </tr> </tbody> </table>		Total % Cover of:		Multiply By:			OBL species	<u>0</u>	x 1 =		<u>0</u>		FACW species	<u>0</u>	x 2 =		<u>0</u>		FAC species	<u>0</u>	x 3 =		<u>0</u>		FACU species	<u>45</u>	x 4 =		<u>180</u>		UPL species	<u>0</u>	x 5 =		<u>0</u>		Column Totals	<u>45</u>	(A)		<u>180</u>	(B)	Prevalence Index = B/A = <u>4</u>					
	Total % Cover of:		Multiply By:																																																	
OBL species	<u>0</u>	x 1 =			<u>0</u>																																															
FACW species	<u>0</u>	x 2 =			<u>0</u>																																															
FAC species	<u>0</u>	x 3 =			<u>0</u>																																															
FACU species	<u>45</u>	x 4 =			<u>180</u>																																															
UPL species	<u>0</u>	x 5 =			<u>0</u>																																															
Column Totals	<u>45</u>	(A)		<u>180</u>	(B)																																															
Prevalence Index = B/A = <u>4</u>																																																				
8. _____	_____	_____	_____																																																	
9. _____	_____	_____	_____																																																	
10. _____	_____	_____	_____																																																	
11. _____	_____	_____	_____																																																	
12. _____	_____	_____	_____																																																	
	<u>45</u>	= Total Cover		Hydrophytic Vegetation Indicators: ____ 1- Rapid Test for Hydrophytic Vegetation ____ 2 - Dominance Test is > 50% ____ 3 - Prevalence Index is ≤ 3.0 ¹ ____ 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) ____ Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic																																																
1. <i>Trifolium repens</i>	45	Yes	FACU																																																	
2. _____	_____	_____	_____																																																	
3. _____	_____	_____	_____																																																	
4. _____	_____	_____	_____																																																	
5. _____	_____	_____	_____																																																	
6. _____	_____	_____	_____																																																	
7. _____	_____	_____	_____																																																	
8. _____	_____	_____	_____																																																	
9. _____	_____	_____	_____																																																	
10. _____	_____	_____	_____																																																	
11. _____	_____	_____	_____																																																	
12. _____	_____	_____	_____																																																	
	<u>45</u>	= Total Cover		Definitions of Vegetation Strata: Tree – Woody plants 3 in. (7.6 cm) or more in diameter at 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 size, and woody plants less than 3.28 ft tall. Woody vines – All woody vines greater than 3.28 ft in height.																																																
Woody Vine Stratum (Plot size: <u>30 ft</u>)																																																				
1. _____	_____	_____	_____																																																	
2. _____	_____	_____	_____																																																	
3. _____	_____	_____	_____																																																	
4. _____	_____	_____	_____																																																	
	<u>0</u>	= Total Cover																																																		

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: W-NWJ-17; UPL-1

[illegible]

Vegetation Photos



Soil Photos



WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Trelina City/County: Waterloo, Seneca Sampling Date: 2019-June-26
 Applicant/Owner: NextEra State: NY Sampling Point: W-NWJ-18; PEM-1
 Investigator(s): Nick DeJohn, Nate Jones Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none): Concave Slope (%): 0-1
 Subregion (LRR or MLRA): LRR L Lat: 42.8928813665 Long: -76.928744875 Datum: WGS84
 Soil Map Unit Name: Claverack loamy fine sand, 2 to 6 percent slopes NWI classification: _____
 Are climatic/hydrologic conditions on the site typical for this time of year? Yes ____ No ✓ (If no, explain in Remarks.)
 Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes ✓ No ____
 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?	Yes <u>✓</u> No ____	
Hydric Soil Present?	Yes <u>✓</u> No ____	Is the Sampled Area within a Wetland? Yes <u>✓</u> No ____
Wetland Hydrology Present?	Yes <u>✓</u> No ____	If yes, optional Wetland Site ID: <u>W-NWJ-18</u>
Remarks: (Explain alternative procedures here or in a separate report) TRC coverype is PEM. Wetter than average year		

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u>				<u>Secondary Indicators (minimum of two required)</u>	
<input checked="" type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)			
<input checked="" type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)			
<input checked="" type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)	<input type="checkbox"/> Moss Trim Lines (B16)			
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Dry-Season Water Table (C2)			
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Crayfish Burrows (C8)			
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)			
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Stunted or Stressed Plants (D1)			
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Geomorphic Position (D2)			
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)			
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<input type="checkbox"/> Microtopographic Relief (D4)			
		<input checked="" type="checkbox"/> FAC-Neutral Test (D5)			
Field Observations:					
Surface Water Present?	Yes <u>✓</u> No ____	Depth (inches):	<u>1</u>	Wetland Hydrology Present? Yes <u>✓</u> No ____	
Water Table Present?	Yes <u>✓</u> No ____	Depth (inches):	<u>0</u>		
Saturation Present?	Yes <u>✓</u> No ____	Depth (inches):	<u>0</u>		
(includes capillary fringe)					
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:					
Remarks:					

Sampling Point: W-NWJ-18; PEM-1

Tree Stratum (Plot size: 30 ft)			Absolute % Cover	Dominant Species?	Indicator Status
1.					
2.					
3.					
4.					
5.					
6.					
7.					
			0	= Total Cover	
Sapling/Shrub Stratum (Plot size: 15 ft)			Absolute % Cover	Dominant Species?	Indicator Status
1.					
2.					
3.					
4.					
5.					
6.					
7.					
			0	= Total Cover	
Herb Stratum (Plot size: 5 ft)			Absolute % Cover	Dominant Species?	Indicator Status
1.	<i>Eleocharis palustris</i>		30	Yes	OBL
2.	<i>Typha latifolia</i>		20	Yes	OBL
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
			50	= Total Cover	
Woody Vine Stratum (Plot size: 30 ft)			Absolute % Cover	Dominant Species?	Indicator Status
1.					
2.					
3.					
4.					
			0	= Total Cover	

Remarks: (Include photo numbers here or on a separate sheet.)

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)

Total Number of Dominant Species Across All Strata: 2 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply By:
OBL species 50	x 1 = 50
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 50	(A) 50 (B)

Prevalence Index = B/A = 1

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 at 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 size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? Yes ☒ No ☐

SOIL

Sampling Point: W-NWJ-18; PEM-1

[illegible]

Hydrology Photos



Vegetation Photos



Soil Photos



WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Trelina City/County: Waterloo, Seneca Sampling Date: 2019-June-26
 Applicant/Owner: NextEra State: NY Sampling Point: W-NWJ-18; UPL-1
 Investigator(s): Nick DeJohn, Nate Jones Section, Township, Range:
 Landform (hillslope, terrace, etc.): Agricultural Field Local relief (concave, convex, none): Flat Slope (%): 0-1
 Subregion (LRR or MLRA): LRR L Lat: 42.8928657761 Long: -76.9288441167 Datum: WGS84
 Soil Map Unit Name: Claverack loamy fine sand, 2 to 6 percent slopes NWI classification:
 Are climatic/hydrologic conditions on the site typical for this time of year? Yes ___ No ☒ (If no, explain in Remarks.)
 Are Vegetation ☒ Soil ___ or Hydrology ___ significantly disturbed? Are "Normal Circumstances" present? Yes ☒ No ___
 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?	Yes ___ No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland?	Yes ___ No <input checked="" type="checkbox"/>
Hydric Soil Present?	Yes ___ No <input checked="" type="checkbox"/>	If yes, optional Wetland Site ID:	
Wetland Hydrology Present?	Yes ___ No <input checked="" type="checkbox"/>		
Remarks: (Explain alternative procedures here or in a separate report)			
TRC coverype is UPL. Circumstances are not normal due to agricultural activities, Wetter than average year			

HYDROLOGY

Wetland Hydrology Indicators:		
Primary Indicators (minimum of one is required; check all that apply)		Secondary Indicators (minimum of two required)
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)	<input type="checkbox"/> Moss Trim Lines (B16)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Stunted or Stressed Plants (D1)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<input type="checkbox"/> Microtopographic Relief (D4)
		<input type="checkbox"/> FAC-Neutral Test (D5)
Field Observations:		
Surface Water Present?	Yes ___ No <input checked="" type="checkbox"/>	Depth (inches): _____
Water Table Present?	Yes ___ No <input checked="" type="checkbox"/>	Depth (inches): _____
Saturation Present?	Yes ___ No <input checked="" type="checkbox"/>	Depth (inches): _____
(includes capillary fringe)		
Wetland Hydrology Present? Yes ___ No <input checked="" type="checkbox"/>		
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:		
Remarks:		

VEGETATION -- Use scientific names of plants.

Sampling Point: W-NWJ-18; UPL-1

Tree Stratum (Plot size: <u>30 ft</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:				
1. _____	_____	_____	_____	Number of Dominant Species That Are OBL, FACW, or FAC:	0	(A)		
2. _____	_____	_____	_____	Total Number of Dominant Species Across All Strata:	2	(B)		
3. _____	_____	_____	_____	Percent of Dominant Species That Are OBL, FACW, or FAC:	0	(A/B)		
4. _____	_____	_____	_____	Prevalence Index worksheet:				
5. _____	_____	_____	_____	<u>Total % Cover of:</u>		<u>Multiply By:</u>		
6. _____	_____	_____	_____	OBL species	0	x 1 =	0	
7. _____	_____	_____	_____	FACW species	0	x 2 =	0	
	0	= Total Cover			FAC species	0	x 3 =	0
Sapling/Shrub Stratum (Plot size: <u>15 ft</u>)				FACU species	65	x 4 =	260	
1. _____	_____	_____	_____	UPL species	5	x 5 =	25	
2. _____	_____	_____	_____	Column Totals	70	(A)	285 (B)	
3. _____	_____	_____	_____	Prevalence Index = B/A = <u>4.1</u>				
4. _____	_____	_____	_____	Hydrophytic Vegetation Indicators:				
5. _____	_____	_____	_____	____ 1- Rapid Test for Hydrophytic Vegetation				
6. _____	_____	_____	_____	____ 2 - Dominance Test is > 50%				
7. _____	_____	_____	_____	____ 3 - Prevalence Index is ≤ 3.0 ¹				
	0	= Total Cover			____ 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)			
Herb Stratum (Plot size: <u>5 ft</u>)				____ Problematic Hydrophytic Vegetation ¹ (Explain)				
1. <i>Trifolium repens</i>	45	Yes	FACU	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic				
2. <i>Trifolium pratense</i>	20	Yes	FACU	Definitions of Vegetation Strata:				
3. <i>Asclepias syriaca</i>	5	No	UPL	Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.				
4. _____	_____	_____	_____	Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.				
5. _____	_____	_____	_____	Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.				
6. _____	_____	_____	_____	Woody vines – All woody vines greater than 3.28 ft in height.				
7. _____	_____	_____	_____	Hydrophytic Vegetation Present? Yes ____ No <u>✓</u>				
8. _____	_____	_____	_____					
9. _____	_____	_____	_____					
10. _____	_____	_____	_____					
11. _____	_____	_____	_____					
12. _____	_____	_____	_____					
	70	= Total Cover						
Woody Vine Stratum (Plot size: <u>30 ft</u>)								
1. _____	_____	_____	_____					
2. _____	_____	_____	_____					
3. _____	_____	_____	_____					
4. _____	_____	_____	_____					
	0	= Total Cover						
Remarks: (Include photo numbers here or on a separate sheet.)								

SOIL

Sampling Point: W-NWJ-18; UPL-1

[illegible]

Vegetation Photos



Soil Photos



WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Trelina City/County: Waterloo, Seneca Sampling Date: 2019-June-26
 Applicant/Owner: NextEra State: NY Sampling Point: W-NWJ-19; PEM-1
 Investigator(s): Nick DeJohn, Nate Jones Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none): Concave Slope (%): 0-1
 Subregion (LRR or MLRA): LRR L Lat: 42.8921504645 Long: -76.9266676717 Datum: WGS84
 Soil Map Unit Name: Schoharie silty clay loam, 2 to 6 percent slopes NWI classification: _____
 Are climatic/hydrologic conditions on the site typical for this time of year? Yes ____ No ☒ (If no, explain in Remarks.)
 Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes ☒ No ____
 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?	Yes <input checked="" type="checkbox"/> No ____	
Hydric Soil Present?	Yes <input checked="" type="checkbox"/> No ____	Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No ____
Wetland Hydrology Present?	Yes <input checked="" type="checkbox"/> No ____	If yes, optional Wetland Site ID: <u>W-NWJ-19</u>
Remarks: (Explain alternative procedures here or in a separate report) TRC coverype is PEM. Wetter than average year		

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u>				<u>Secondary Indicators (minimum of two required)</u>	
<input checked="" type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)			
<input checked="" type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)			
<input checked="" type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)	<input type="checkbox"/> Moss Trim Lines (B16)			
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Dry-Season Water Table (C2)			
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Crayfish Burrows (C8)			
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)			
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Stunted or Stressed Plants (D1)			
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Geomorphic Position (D2)			
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)			
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<input type="checkbox"/> Microtopographic Relief (D4)			
		<input checked="" type="checkbox"/> FAC-Neutral Test (D5)			
Field Observations:					
Surface Water Present?	Yes <input checked="" type="checkbox"/> No ____	Depth (inches):	<u>2</u>	Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No ____	
Water Table Present?	Yes <input checked="" type="checkbox"/> No ____	Depth (inches):	<u>1</u>		
Saturation Present?	Yes <input checked="" type="checkbox"/> No ____	Depth (inches):	<u>1</u>		
(includes capillary fringe)					
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:					
Remarks:					

VEGETATION -- Use scientific names of plants.

Sampling Point: W-NWJ-19; PEM-1

Tree Stratum (Plot size: <u>30 ft</u>)	Absolute % Cover	Dominant Species?	Indicator Status																																									
1. _____	_____	_____	_____	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)																																								
2. _____	_____	_____	_____																																									
3. _____	_____	_____	_____																																									
4. _____	_____	_____	_____																																									
5. _____	_____	_____	_____																																									
6. _____	_____	_____	_____																																									
7. _____	_____	_____	_____																																									
	<u>0</u>	= Total Cover		Prevalence Index worksheet: <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 40%;"></th> <th style="width: 10%; text-align: center;">Total % Cover of:</th> <th style="width: 10%;"></th> <th style="width: 10%; text-align: center;">Multiply By:</th> <th style="width: 10%;"></th> </tr> </thead> <tbody> <tr><td>OBL species</td><td style="text-align: center;">60</td><td></td><td style="text-align: center;">x 1 =</td><td style="text-align: center;">60</td></tr> <tr><td>FACW species</td><td style="text-align: center;">0</td><td></td><td style="text-align: center;">x 2 =</td><td style="text-align: center;">0</td></tr> <tr><td>FAC species</td><td style="text-align: center;">0</td><td></td><td style="text-align: center;">x 3 =</td><td style="text-align: center;">0</td></tr> <tr><td>FACU species</td><td style="text-align: center;">0</td><td></td><td style="text-align: center;">x 4 =</td><td style="text-align: center;">0</td></tr> <tr><td>UPL species</td><td style="text-align: center;">0</td><td></td><td style="text-align: center;">x 5 =</td><td style="text-align: center;">0</td></tr> <tr><td>Column Totals</td><td style="text-align: center;">60</td><td></td><td style="text-align: center;">(A)</td><td style="text-align: center;">60 (B)</td></tr> <tr><td colspan="4">Prevalence Index = B/A =</td><td style="text-align: center;"><u>1</u></td></tr> </tbody> </table>		Total % Cover of:		Multiply By:		OBL species	60		x 1 =	60	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	60		(A)	60 (B)	Prevalence Index = B/A =				<u>1</u>
	Total % Cover of:		Multiply By:																																									
OBL species	60		x 1 =		60																																							
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	60		(A)	60 (B)																																								
Prevalence Index = B/A =				<u>1</u>																																								
Sapling/Shrub Stratum (Plot size: <u>15 ft</u>)																																												
1. _____	_____	_____	_____																																									
2. _____	_____	_____	_____																																									
3. _____	_____	_____	_____																																									
4. _____	_____	_____	_____																																									
5. _____	_____	_____	_____																																									
6. _____	_____	_____	_____																																									
7. _____	_____	_____	_____																																									
	<u>0</u>	= Total Cover																																										
Herb Stratum (Plot size: <u>5 ft</u>)																																												
1. <i>Eleocharis palustris</i>	40	Yes	OBL																																									
2. <i>Alisma triviale</i>	20	Yes	OBL																																									
3. _____	_____	_____	_____																																									
4. _____	_____	_____	_____																																									
5. _____	_____	_____	_____																																									
6. _____	_____	_____	_____																																									
7. _____	_____	_____	_____																																									
8. _____	_____	_____	_____																																									
9. _____	_____	_____	_____																																									
10. _____	_____	_____	_____																																									
11. _____	_____	_____	_____																																									
12. _____	_____	_____	_____																																									
	<u>60</u>	= Total Cover																																										
Woody Vine Stratum (Plot size: <u>30 ft</u>)																																												
1. _____	_____	_____	_____																																									
2. _____	_____	_____	_____																																									
3. _____	_____	_____	_____																																									
4. _____	_____	_____	_____																																									
	<u>0</u>	= Total Cover																																										
Remarks: (Include photo numbers here or on a separate sheet.)																																												

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 at 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 size, and woody plants less than 3.28 ft tall.
Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? Yes ☒ No ☐

SOIL

Sampling Point: W-NWJ-19; PEM-1

[illegible]

Hydrology Photos



Vegetation Photos



Soil Photos



WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Trelina City/County: Waterloo, Seneca Sampling Date: 2019-June-26
 Applicant/Owner: NextEra State: NY Sampling Point: W-NWJ-19; UPL-1
 Investigator(s): Nick DeJohn, Nate Jones Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): Agricultural Field Local relief (concave, convex, none): Flat Slope (%): 0-1
 Subregion (LRR or MLRA): LRR L Lat: 42.8922649613 Long: -76.9269156922 Datum: WGS84
 Soil Map Unit Name: Schoharie silty clay loam, 2 to 6 percent slopes NWI classification: _____
 Are climatic/hydrologic conditions on the site typical for this time of year? Yes ____ No ✓ (If no, explain in Remarks.)
 Are Vegetation ✓, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes ✓ No ____
 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?	Yes ____ No <u>✓</u>	
Hydric Soil Present?	Yes ____ No <u>✓</u>	Is the Sampled Area within a Wetland? Yes ____ No <u>✓</u>
Wetland Hydrology Present?	Yes ____ No <u>✓</u>	If yes, optional Wetland Site ID: _____
Remarks: (Explain alternative procedures here or in a separate report)		
TRC coverype is UPL. Circumstances are not normal due to agricultural activities, Recent rain		

HYDROLOGY

Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply)			Secondary Indicators (minimum of two required)		
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)			
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)			
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)	<input type="checkbox"/> Moss Trim Lines (B16)			
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Dry-Season Water Table (C2)			
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Crayfish Burrows (C8)			
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)			
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Stunted or Stressed Plants (D1)			
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Geomorphic Position (D2)			
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)			
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<input type="checkbox"/> Microtopographic Relief (D4)			
		<input type="checkbox"/> FAC-Neutral Test (D5)			
Field Observations:					
Surface Water Present?	Yes ____ No <u>✓</u>	Depth (inches): _____	Wetland Hydrology Present? Yes ____ No <u>✓</u>		
Water Table Present?	Yes ____ No <u>✓</u>	Depth (inches): _____			
Saturation Present?	Yes ____ No <u>✓</u>	Depth (inches): _____			
(includes capillary fringe)					
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:					
Remarks:					

VEGETATION -- Use scientific names of plants.

Sampling Point: W-NWJ-19; UPL-1

Tree Stratum (Plot size: <u>30 ft</u>)	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
	0	= Total Cover		
Sapling/Shrub Stratum (Plot size: <u>15 ft</u>)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
	0	= Total Cover		
Herb Stratum (Plot size: <u>5 ft</u>)				
1. <i>Ambrosia artemisiifolia</i>	15	Yes	FACU	
2. <i>Erigeron annuus</i>	5	Yes	FACU	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
11. _____	_____	_____	_____	
12. _____	_____	_____	_____	
	20	= Total Cover		
Woody Vine Stratum (Plot size: <u>30 ft</u>)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
	0	= Total Cover		

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)

Total Number of Dominant Species Across All Strata: 2 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 0 (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply By:
OBL species 0	x 1 = 0
FACW species 0	x 2 = 0
FAC species 0	x 3 = 0
FACU species 20	x 4 = 80
UPL species 0	x 5 = 0
Column Totals 20	(A) 80 (B)

Prevalence Index = B/A = 4

Hydrophytic Vegetation Indicators:

____ 1- Rapid Test for Hydrophytic Vegetation

____ 2 - Dominance Test is > 50%

____ 3 - Prevalence Index is ≤ 3.0¹

____ 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)

____ Problematic Hydrophytic Vegetation¹ (Explain)

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 at 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 size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? Yes ____ No ✓

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: W-NWJ-19; UPL-1

[illegible]

Vegetation Photos



Soil Photos



WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Trelina City/County: Waterloo, Seneca Sampling Date: 2019-June-26
 Applicant/Owner: NextEra State: NY Sampling Point: W-NWJ-20; PEM-1
 Investigator(s): Nick DeJohn, Nate Jones Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none): Concave Slope (%): 0-1
 Subregion (LRR or MLRA): LRR L Lat: 42.8923514625 Long: -76.9268885349 Datum: WGS84
 Soil Map Unit Name: Schoharie silt loam, 2 to 6 percent slopes NWI classification: _____
 Are climatic/hydrologic conditions on the site typical for this time of year? Yes ____ No ✓ (If no, explain in Remarks.)
 Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes ✓ No ____
 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?	Yes <u>✓</u> No ____	
Hydric Soil Present?	Yes <u>✓</u> No ____	Is the Sampled Area within a Wetland? Yes <u>✓</u> No ____
Wetland Hydrology Present?	Yes <u>✓</u> No ____	If yes, optional Wetland Site ID: <u>W-NWJ-20</u>
Remarks: (Explain alternative procedures here or in a separate report)		
<p>TRC coverype is PEM. Wetter than average year</p>		

HYDROLOGY

Wetland Hydrology Indicators:			
<u>Primary Indicators (minimum of one is required; check all that apply)</u>		<u>Secondary Indicators (minimum of two required)</u>	
<input checked="" type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)	
<input checked="" type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)	
<input checked="" type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)	<input type="checkbox"/> Moss Trim Lines (B16)	
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Dry-Season Water Table (C2)	
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Crayfish Burrows (C8)	
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)	
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Stunted or Stressed Plants (D1)	
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Geomorphic Position (D2)	
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)	
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<input type="checkbox"/> Microtopographic Relief (D4)	
		<input checked="" type="checkbox"/> FAC-Neutral Test (D5)	
Field Observations:			
Surface Water Present?	Yes <u>✓</u> No ____	Depth (inches):	<u>1</u>
Water Table Present?	Yes <u>✓</u> No ____	Depth (inches):	<u>0</u>
Saturation Present?	Yes <u>✓</u> No ____	Depth (inches):	<u>0</u>
(includes capillary fringe)		Wetland Hydrology Present? Yes <u>✓</u> No ____	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:			
Remarks:			

VEGETATION -- Use scientific names of plants.

Sampling Point: W-NWJ-20; PEM-1

Tree Stratum (Plot size: <u>30 ft</u>)			Absolute % Cover	Dominant Species?	Indicator Status
1.	<i>Acer rubrum</i>		30	Yes	FAC
2.					
3.					
4.					
5.					
6.					
7.					
			30	= Total Cover	
Sapling/Shrub Stratum (Plot size: <u>15 ft</u>)			Absolute % Cover	Dominant Species?	Indicator Status
1.	<i>Rhamnus cathartica</i>		10	Yes	FAC
2.					
3.					
4.					
5.					
6.					
7.					
			10	= Total Cover	
Herb Stratum (Plot size: <u>5 ft</u>)			Absolute % Cover	Dominant Species?	Indicator Status
1.	<i>Scirpus atrovirens</i>		45	Yes	OBL
2.	<i>Carex vulpinoidea</i>		20	Yes	OBL
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
			65	= Total Cover	
Woody Vine Stratum (Plot size: <u>30 ft</u>)			Absolute % Cover	Dominant Species?	Indicator Status
1.					
2.					
3.					
4.					
			0	= Total Cover	

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 4 (A)

Total Number of Dominant Species Across All Strata: 4 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply By:	
OBL species	<u>65</u>	x 1 =	<u>65</u>
FACW species	<u>0</u>	x 2 =	<u>0</u>
FAC species	<u>40</u>	x 3 =	<u>120</u>
FACU species	<u>0</u>	x 4 =	<u>0</u>
UPL species	<u>0</u>	x 5 =	<u>0</u>
Column Totals	<u>105</u>	(A)	<u>185</u> (B)
Prevalence Index = B/A =		<u>1.8</u>	

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 at 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 size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? Yes ☒ No

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: W-NWJ-20; PEM-1

[illegible]

Hydrology Photos



Vegetation Photos



Soil Photos



WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Trelina City/County: Waterloo, Seneca Sampling Date: 2019-June-26
 Applicant/Owner: NextEra State: NY Sampling Point: W-NWJ-20; UPL-1
 Investigator(s): Nick DeJohn, Nate Jones Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): Agricultural Field Local relief (concave, convex, none): Flat Slope (%): 0-1
 Subregion (LRR or MLRA): LRR L Lat: 42.8909792193 Long: -76.9269698393 Datum: WGS84
 Soil Map Unit Name: Schoharie silt loam, 2 to 6 percent slopes NWI classification: _____
 Are climatic/hydrologic conditions on the site typical for this time of year? Yes ____ No ✓ (If no, explain in Remarks.)
 Are Vegetation ✓, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes ✓ No ____
 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?	Yes ____ No <u>✓</u>	
Hydric Soil Present?	Yes ____ No <u>✓</u>	Is the Sampled Area within a Wetland? Yes ____ No <u>✓</u>
Wetland Hydrology Present?	Yes ____ No <u>✓</u>	If yes, optional Wetland Site ID: _____
Remarks: (Explain alternative procedures here or in a separate report) TRC coverype is UPL. Circumstances are not normal due to agricultural activities, Recent rain		

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u>			<u>Secondary Indicators (minimum of two required)</u>		
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)			
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)			
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)	<input type="checkbox"/> Moss Trim Lines (B16)			
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Dry-Season Water Table (C2)			
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Crayfish Burrows (C8)			
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)			
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Stunted or Stressed Plants (D1)			
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Geomorphic Position (D2)			
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)			
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<input type="checkbox"/> Microtopographic Relief (D4)			
		<input type="checkbox"/> FAC-Neutral Test (D5)			
Field Observations: Surface Water Present? Yes ____ No <u>✓</u> Depth (inches): _____ Water Table Present? Yes ____ No <u>✓</u> Depth (inches): _____ Saturation Present? Yes ____ No <u>✓</u> Depth (inches): _____ (includes capillary fringe)			Wetland Hydrology Present? Yes ____ No <u>✓</u>		
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:					
Remarks:					

VEGETATION -- Use scientific names of plants.

Sampling Point: W-NWJ-20; UPL-1

Tree Stratum (Plot size: <u>30 ft</u>)	Absolute % Cover	Dominant Species?	Indicator Status																																									
1. <i>Acer rubrum</i>	10	Yes	FAC	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>4</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50</u> (A/B)																																								
2. _____	_____	_____	_____																																									
3. _____	_____	_____	_____																																									
4. _____	_____	_____	_____																																									
5. _____	_____	_____	_____																																									
6. _____	_____	_____	_____																																									
7. _____	_____	_____	_____																																									
	10	= Total Cover		Prevalence Index worksheet: <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 40%; text-align: left;">Total % Cover of:</th> <th style="width: 10%;"></th> <th style="width: 10%; text-align: left;">Multiply By:</th> <th style="width: 10%;"></th> <th style="width: 10%;"></th> </tr> </thead> <tbody> <tr> <td>OBL species</td> <td>0</td> <td>x 1 =</td> <td>0</td> <td></td> </tr> <tr> <td>FACW species</td> <td>0</td> <td>x 2 =</td> <td>0</td> <td></td> </tr> <tr> <td>FAC species</td> <td>20</td> <td>x 3 =</td> <td>60</td> <td></td> </tr> <tr> <td>FACU species</td> <td>35</td> <td>x 4 =</td> <td>140</td> <td></td> </tr> <tr> <td>UPL species</td> <td>0</td> <td>x 5 =</td> <td>0</td> <td></td> </tr> <tr> <td>Column Totals</td> <td>55</td> <td>(A)</td> <td>200</td> <td>(B)</td> </tr> <tr> <td colspan="5">Prevalence Index = B/A = <u>3.6</u></td> </tr> </tbody> </table>	Total % Cover of:		Multiply By:			OBL species	0	x 1 =	0		FACW species	0	x 2 =	0		FAC species	20	x 3 =	60		FACU species	35	x 4 =	140		UPL species	0	x 5 =	0		Column Totals	55	(A)	200	(B)	Prevalence Index = B/A = <u>3.6</u>				
Total % Cover of:		Multiply By:																																										
OBL species	0	x 1 =	0																																									
FACW species	0	x 2 =	0																																									
FAC species	20	x 3 =	60																																									
FACU species	35	x 4 =	140																																									
UPL species	0	x 5 =	0																																									
Column Totals	55	(A)	200	(B)																																								
Prevalence Index = B/A = <u>3.6</u>																																												
1. _____	_____	_____	_____																																									
2. _____	_____	_____	_____																																									
3. _____	_____	_____	_____																																									
4. _____	_____	_____	_____																																									
5. _____	_____	_____	_____																																									
6. _____	_____	_____	_____																																									
7. _____	_____	_____	_____																																									
	0	= Total Cover		Hydrophytic Vegetation Indicators: ____ 1- Rapid Test for Hydrophytic Vegetation ____ 2 - Dominance Test is > 50% ____ 3 - Prevalence Index is ≤ 3.0 ¹ ____ 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) ____ Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic																																								
Herb Stratum (Plot size: <u>5 ft</u>)																																												
1. <i>Trifolium repens</i>	20	Yes	FACU																																									
2. <i>Ambrosia artemisiifolia</i>	15	Yes	FACU																																									
3. <i>Equisetum arvense</i>	10	Yes	FAC																																									
4. _____	_____	_____	_____																																									
5. _____	_____	_____	_____																																									
6. _____	_____	_____	_____																																									
7. _____	_____	_____	_____																																									
8. _____	_____	_____	_____																																									
9. _____	_____	_____	_____																																									
10. _____	_____	_____	_____																																									
11. _____	_____	_____	_____																																									
12. _____	_____	_____	_____																																									
	45	= Total Cover																																										
Woody Vine Stratum (Plot size: <u>30 ft</u>)																																												
1. _____	_____	_____	_____																																									
2. _____	_____	_____	_____																																									
3. _____	_____	_____	_____																																									
4. _____	_____	_____	_____																																									
	0	= Total Cover																																										
Remarks: (Include photo numbers here or on a separate sheet.)																																												

SOIL

Sampling Point: W-NWJ-20; UPL-1

[illegible]

Vegetation Photos



Soil Photos



WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Trelina City/County: Waterloo, Seneca Sampling Date: 2019-June-26
 Applicant/Owner: NextEra State: NY Sampling Point: W-NWJ-21; PEM-1
 Investigator(s): Nick DeJohn, Nate Jones Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none): Concave Slope (%): 0-1
 Subregion (LRR or MLRA): LRR L Lat: 42.8932587617 Long: -76.9251791295 Datum: WGS84
 Soil Map Unit Name: Odessa silt loam, 0 to 2 percent slopes NWI classification: _____
 Are climatic/hydrologic conditions on the site typical for this time of year? Yes ____ No ✓ (If no, explain in Remarks.)
 Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes ✓ No ____
 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?	Yes <u>✓</u> No ____	
Hydric Soil Present?	Yes <u>✓</u> No ____	Is the Sampled Area within a Wetland? Yes <u>✓</u> No ____
Wetland Hydrology Present?	Yes <u>✓</u> No ____	If yes, optional Wetland Site ID: <u>W-NWJ-21</u>
Remarks: (Explain alternative procedures here or in a separate report)		
<p>TRC coverype is PEM. Wetter than average year</p>		

HYDROLOGY

Wetland Hydrology Indicators:			
<u>Primary Indicators (minimum of one is required; check all that apply)</u>		<u>Secondary Indicators (minimum of two required)</u>	
<input checked="" type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)	
<input checked="" type="checkbox"/> High Water Table (A2)	<input checked="" type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)	
<input checked="" type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)	<input type="checkbox"/> Moss Trim Lines (B16)	
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Dry-Season Water Table (C2)	
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Crayfish Burrows (C8)	
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)	
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Stunted or Stressed Plants (D1)	
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Geomorphic Position (D2)	
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)	
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<input type="checkbox"/> Microtopographic Relief (D4)	
		<input checked="" type="checkbox"/> FAC-Neutral Test (D5)	
Field Observations:			
Surface Water Present?	Yes <u>✓</u> No ____	Depth (inches):	<u>4</u>
Water Table Present?	Yes <u>✓</u> No ____	Depth (inches):	<u>0</u>
Saturation Present?	Yes <u>✓</u> No ____	Depth (inches):	<u>0</u>
(includes capillary fringe)		Wetland Hydrology Present? Yes <u>✓</u> No ____	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:			
Remarks:			

VEGETATION -- Use scientific names of plants.

Sampling Point: W-NWJ-21; PEM-1

Tree Stratum (Plot size: <u>30 ft</u>)	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
	0	= Total Cover		
Sapling/Shrub Stratum (Plot size: <u>15 ft</u>)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
	0	= Total Cover		
Herb Stratum (Plot size: <u>5 ft</u>)				
1. <i>Phragmites australis</i>	20	Yes	FACW	
2. <i>Juncus effusus</i>	15	Yes	OBL	
3. <i>Alisma triviale</i>	5	No	OBL	
4. <i>Populus deltoides</i>	5	No	FAC	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
11. _____	_____	_____	_____	
12. _____	_____	_____	_____	
	45	= Total Cover		
Woody Vine Stratum (Plot size: <u>30 ft</u>)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
	0	= Total Cover		

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)

Total Number of Dominant Species Across All Strata: 2 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply By:
OBL species 20	x 1 = 20
FACW species 20	x 2 = 40
FAC species 5	x 3 = 15
FACU species 0	x 4 = 0
UPL species 0	x 5 = 0
Column Totals 45	(A) 75 (B)

Prevalence Index = B/A = 1.7

Hydrophytic Vegetation Indicators:

☒ 1 - Rapid Test for Hydrophytic Vegetation

☒ 2 - Dominance Test is >50%

☒ 3 - Prevalence Index is ≤ 3.0¹

____ 4 - Morphological Adaptations¹ (Provide 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 at 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 size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? Yes ☒ No ____

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: W-NWJ-21; PEM-1

[illegible]

Hydrology Photos



Vegetation Photos



Soil Photos



WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Trelina City/County: Waterloo, Seneca Sampling Date: 2019-June-26
 Applicant/Owner: NextEra State: NY Sampling Point: W-NWJ-21; UPL-1
 Investigator(s): Nick DeJohn, Nate Jones Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): Agricultural Field Local relief (concave, convex, none): Flat Slope (%): 0-1
 Subregion (LRR or MLRA): LRR L Lat: 42.8935254319 Long: -76.9255438261 Datum: WGS84
 Soil Map Unit Name: Odessa silt loam, 0 to 2 percent slopes NWI classification: _____
 Are climatic/hydrologic conditions on the site typical for this time of year? Yes ____ No ✓ (If no, explain in Remarks.)
 Are Vegetation ✓, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes ✓ No ____
 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?	Yes ____ No <u>✓</u>	
Hydric Soil Present?	Yes ____ No <u>✓</u>	Is the Sampled Area within a Wetland? Yes ____ No <u>✓</u>
Wetland Hydrology Present?	Yes ____ No <u>✓</u>	If yes, optional Wetland Site ID: _____
Remarks: (Explain alternative procedures here or in a separate report) TRC coverype is UPL. Circumstances are not normal due to agricultural activities, Wetter than average year		

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u>			<u>Secondary Indicators (minimum of two required)</u>		
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)			
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)			
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)	<input type="checkbox"/> Moss Trim Lines (B16)			
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Dry-Season Water Table (C2)			
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Crayfish Burrows (C8)			
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)			
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Stunted or Stressed Plants (D1)			
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Geomorphic Position (D2)			
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)			
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<input type="checkbox"/> Microtopographic Relief (D4)			
		<input type="checkbox"/> FAC-Neutral Test (D5)			
Field Observations: Surface Water Present? Yes ____ No <u>✓</u> Depth (inches): _____ Water Table Present? Yes ____ No <u>✓</u> Depth (inches): _____ Saturation Present? Yes ____ No <u>✓</u> Depth (inches): _____ (includes capillary fringe)			Wetland Hydrology Present? Yes ____ No <u>✓</u>		
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:					
Remarks:					

Sampling Point: W-NWJ-21; UPL-1

Tree Stratum (Plot size: <u>30 ft</u>)			Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:			
1.						Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A)			
2.						Total Number of Dominant Species Across All Strata: <u>2</u> (B)			
3.						Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A/B)			
4.						Prevalence Index worksheet:			
5.						Total % Cover of:		Multiply By:	
6.						OBL species	<u>0</u>	x 1 =	<u>0</u>
7.						FACW species	<u>0</u>	x 2 =	<u>0</u>
						FAC species	<u>0</u>	x 3 =	<u>0</u>
						FACU species	<u>25</u>	x 4 =	<u>100</u>
						UPL species	<u>0</u>	x 5 =	<u>0</u>
						Column Totals	<u>25</u>	(A)	<u>100</u> (B)
						Prevalence Index = B/A = <u>4</u>			
Sapling/Shrub Stratum (Plot size: <u>15 ft</u>)						Hydrophytic Vegetation Indicators:			
1.						<u>1</u> - Rapid Test for Hydrophytic Vegetation			
2.						<u>2</u> - Dominance Test is > 50%			
3.						<u>3</u> - Prevalence Index is ≤ 3.0 ¹			
4.						<u>4</u> - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)			
5.						<u>Problematic Hydrophytic Vegetation</u> ¹ (Explain)			
6.						¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic			
7.						Definitions of Vegetation Strata:			
						Tree – Woody plants 3 in. (7.6 cm) or more in diameter at 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 size, and woody plants less than 3.28 ft tall.			
						Woody vines – All woody vines greater than 3.28 ft in height.			
						Hydrophytic Vegetation Present? Yes <u> </u> No <u>✓</u>			
Herb Stratum (Plot size: <u>5 ft</u>)						Remarks: (Include photo numbers here or on a separate sheet.)			
1.	<i>Plantago lanceolata</i>	<u>15</u>	Yes	FACU					
2.	<i>Erigeron annuus</i>	<u>10</u>	Yes	FACU					
3.									
4.									
5.									
6.									
7.									
8.									
9.									
10.									
11.									
12.									
		<u>25</u>	= Total Cover						
Woody Vine Stratum (Plot size: <u>30 ft</u>)									
1.									
2.									
3.									
4.									
		<u>0</u>	= Total Cover						

SOIL

Sampling Point: W-NWJ-21; UPL-1

[illegible]

Vegetation Photos



Soil Photos



WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Trelina City/County: Waterloo, Seneca Sampling Date: 2019-June-26
 Applicant/Owner: NextEra State: NY Sampling Point: W-NWJ-22; UPL-1
 Investigator(s): Nick DeJohn, Nate Jones Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): Agricultural Field Local relief (concave, convex, none): Flat Slope (%): 0-1
 Subregion (LRR or MLRA): LRR L Lat: 42.8948696988 Long: -76.9232622453 Datum: WGS84
 Soil Map Unit Name: Schoharie silty clay loam, 0 to 2 percent slopes NWI classification: _____
 Are climatic/hydrologic conditions on the site typical for this time of year? Yes ____ No ✓ (If no, explain in Remarks.)
 Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes ✓ No ____
 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?	Yes ____ No <u>✓</u>	
Hydric Soil Present?	Yes ____ No <u>✓</u>	Is the Sampled Area within a Wetland? Yes ____ No <u>✓</u>
Wetland Hydrology Present?	Yes ____ No <u>✓</u>	If yes, optional Wetland Site ID: _____
Remarks: (Explain alternative procedures here or in a separate report)		
<p>TRC coverype is UPL. Recent rain</p>		

HYDROLOGY

Wetland Hydrology Indicators:		
<u>Primary Indicators (minimum of one is required; check all that apply)</u>		<u>Secondary Indicators (minimum of two required)</u>
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)	<input type="checkbox"/> Moss Trim Lines (B16)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Stunted or Stressed Plants (D1)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<input type="checkbox"/> Microtopographic Relief (D4)
		<input type="checkbox"/> FAC-Neutral Test (D5)
Field Observations:		
Surface Water Present? Yes ____ No <u>✓</u>	Depth (inches): _____	Wetland Hydrology Present? Yes ____ No <u>✓</u>
Water Table Present? Yes ____ No <u>✓</u>	Depth (inches): _____	
Saturation Present? Yes ____ No <u>✓</u>	Depth (inches): _____	
(includes capillary fringe)		
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:		
Remarks:		

VEGETATION -- Use scientific names of plants.

Sampling Point: W-NWJ-22; UPL-1

Tree Stratum (Plot size: <u>30 ft</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:			
1. _____	_____	_____	_____	Number of Dominant Species That Are OBL, FACW, or FAC:	<u>0</u>	(A)	
2. _____	_____	_____	_____	Total Number of Dominant Species Across All Strata:	<u>1</u>	(B)	
3. _____	_____	_____	_____	Percent of Dominant Species That Are OBL, FACW, or FAC:	<u>0</u>	(A/B)	
4. _____	_____	_____	_____	Prevalence Index worksheet:			
5. _____	_____	_____	_____	Total % Cover of:		Multiply By:	
6. _____	_____	_____	_____	OBL species	<u>0</u>	x 1 =	<u>0</u>
7. _____	_____	_____	_____	FACW species	<u>0</u>	x 2 =	<u>0</u>
	<u>0</u>	= Total Cover		FAC species	<u>0</u>	x 3 =	<u>0</u>
Sapling/Shrub Stratum (Plot size: <u>15 ft</u>)	_____	_____	_____	FACU species	<u>70</u>	x 4 =	<u>280</u>
1. _____	_____	_____	_____	UPL species	<u>0</u>	x 5 =	<u>0</u>
2. _____	_____	_____	_____	Column Totals	<u>70</u>	(A)	<u>280</u> (B)
3. _____	_____	_____	_____	Prevalence Index = B/A = <u>4</u>			
4. _____	_____	_____	_____	Hydrophytic Vegetation Indicators:			
5. _____	_____	_____	_____	____ 1- Rapid Test for Hydrophytic Vegetation			
6. _____	_____	_____	_____	____ 2 - Dominance Test is > 50%			
7. _____	_____	_____	_____	____ 3 - Prevalence Index is ≤ 3.0 ¹			
	<u>0</u>	= Total Cover		____ 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)			
Herb Stratum (Plot size: <u>5 ft</u>)	_____	_____	_____	____ Problematic Hydrophytic Vegetation ¹ (Explain)			
1. <i>Solidago canadensis</i>	<u>70</u>	Yes	FACU	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic			
2. _____	_____	_____	_____	Definitions of Vegetation Strata:			
3. _____	_____	_____	_____	Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.			
4. _____	_____	_____	_____	Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.			
5. _____	_____	_____	_____	Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.			
6. _____	_____	_____	_____	Woody vines – All woody vines greater than 3.28 ft in height.			
7. _____	_____	_____	_____	Hydrophytic Vegetation Present? Yes ____ No <u>✓</u>			
8. _____	_____	_____	_____				
9. _____	_____	_____	_____				
10. _____	_____	_____	_____				
11. _____	_____	_____	_____				
12. _____	_____	_____	_____				
	<u>70</u>	= Total Cover					
Woody Vine Stratum (Plot size: <u>30 ft</u>)	_____	_____	_____				
1. _____	_____	_____	_____				
2. _____	_____	_____	_____				
3. _____	_____	_____	_____				
4. _____	_____	_____	_____				
	<u>0</u>	= Total Cover					
Remarks: (Include photo numbers here or on a separate sheet.)							

SOIL

Sampling Point: W-NWJ-22; UPL-1

[illegible]

Hydrology Photos



Vegetation Photos



Soil Photos



WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Trelina City/County: Waterloo, Seneca Sampling Date: 2019-June-26
 Applicant/Owner: NextEra State: NY Sampling Point: W-NWJ-23; PEM-1
 Investigator(s): Nick DeJohn, Nate Jones Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): Agricultural Field Local relief (concave, convex, none): Concave Slope (%): 0-1
 Subregion (LRR or MLRA): LRR L Lat: 42.8938534158 Long: -76.9238877297 Datum: WGS84
 Soil Map Unit Name: Claverack loamy fine sand, 2 to 6 percent slopes NWI classification: _____
 Are climatic/hydrologic conditions on the site typical for this time of year? Yes ____ No ☒ (If no, explain in Remarks.)
 Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes ☒ No ____
 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?	Yes <input checked="" type="checkbox"/> No ____	
Hydric Soil Present?	Yes <input checked="" type="checkbox"/> No ____	Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No ____
Wetland Hydrology Present?	Yes <input checked="" type="checkbox"/> No ____	If yes, optional Wetland Site ID: <u>W-NWJ-23</u>
Remarks: (Explain alternative procedures here or in a separate report)		
TRC coverype is PEM. Wetter than average year		

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u>				<u>Secondary Indicators (minimum of two required)</u>	
<input checked="" type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)			
<input checked="" type="checkbox"/> High Water Table (A2)	<input checked="" type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)			
<input checked="" type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)	<input type="checkbox"/> Moss Trim Lines (B16)			
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Dry-Season Water Table (C2)			
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Crayfish Burrows (C8)			
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)			
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Stunted or Stressed Plants (D1)			
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Geomorphic Position (D2)			
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)			
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<input type="checkbox"/> Microtopographic Relief (D4)			
		<input checked="" type="checkbox"/> FAC-Neutral Test (D5)			
Field Observations:					
Surface Water Present?	Yes <input checked="" type="checkbox"/> No ____	Depth (inches):	<u>1</u>	Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No ____	
Water Table Present?	Yes <input checked="" type="checkbox"/> No ____	Depth (inches):	<u>0</u>		
Saturation Present?	Yes <input checked="" type="checkbox"/> No ____	Depth (inches):	<u>0</u>		
(includes capillary fringe)					
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:					
Remarks:					

Sampling Point: W-NWJ-23; PEM-1

Tree Stratum (Plot size: 30 ft)			Absolute % Cover	Dominant Species?	Indicator Status
1.					
2.					
3.					
4.					
5.					
6.					
7.					
			0	= Total Cover	
Sapling/Shrub Stratum (Plot size: 15 ft)			Absolute % Cover	Dominant Species?	Indicator Status
1.					
2.					
3.					
4.					
5.					
6.					
7.					
			0	= Total Cover	
Herb Stratum (Plot size: 5 ft)			Absolute % Cover	Dominant Species?	Indicator Status
1.	Carex stipata		35	Yes	OBL
2.	Carex vulpinoidea		25	Yes	OBL
3.	Lythrum salicaria		10	No	OBL
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
			70	= Total Cover	
Woody Vine Stratum (Plot size: 30 ft)			Absolute % Cover	Dominant Species?	Indicator Status
1.					
2.					
3.					
4.					
			0	= Total Cover	

Remarks: (Include photo numbers here or on a separate sheet.)

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)

Total Number of Dominant Species Across All Strata: 2 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply By:
OBL species 70	x 1 = 70
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 70	(A) 70 (B)
Prevalence Index = B/A = 1	

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 at 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 size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? Yes ☒ No ☐

SOIL

Sampling Point: W-NWJ-23; PEM-1

[illegible]

Hydrology Photos



Vegetation Photos



Soil Photos



WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Trelina City/County: Waterloo, Seneca Sampling Date: 2019-June-26
 Applicant/Owner: NextEra State: NY Sampling Point: W-NWJ-23; UPL-1
 Investigator(s): Nick DeJohn, Nate Jones Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): Agricultural Field Local relief (concave, convex, none): Flat Slope (%): 0-1
 Subregion (LRR or MLRA): LRR L Lat: 42.894064975 Long: -76.9240733889 Datum: WGS84
 Soil Map Unit Name: Schoharie silty clay loam, 0 to 2 percent slopes NWI classification: _____
 Are climatic/hydrologic conditions on the site typical for this time of year? Yes ____ No ✓ (If no, explain in Remarks.)
 Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes ✓ No ____
 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?	Yes ____ No <u>✓</u>	
Hydric Soil Present?	Yes ____ No <u>✓</u>	Is the Sampled Area within a Wetland? Yes ____ No <u>✓</u>
Wetland Hydrology Present?	Yes ____ No <u>✓</u>	If yes, optional Wetland Site ID: _____
Remarks: (Explain alternative procedures here or in a separate report) TRC coverype is UPL. Recent rain		

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u>			<u>Secondary Indicators (minimum of two required)</u>		
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)			
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)			
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)	<input type="checkbox"/> Moss Trim Lines (B16)			
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Dry-Season Water Table (C2)			
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Crayfish Burrows (C8)			
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)			
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Stunted or Stressed Plants (D1)			
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Geomorphic Position (D2)			
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)			
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<input type="checkbox"/> Microtopographic Relief (D4)			
		<input type="checkbox"/> FAC-Neutral Test (D5)			
Field Observations: Surface Water Present? Yes ____ No <u>✓</u> Depth (inches): _____ Water Table Present? Yes ____ No <u>✓</u> Depth (inches): _____ Saturation Present? Yes ____ No <u>✓</u> Depth (inches): _____ (includes capillary fringe)			Wetland Hydrology Present? Yes ____ No <u>✓</u>		
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: 					
Remarks:					

VEGETATION -- Use scientific names of plants.

Sampling Point: W-NWJ-23; UPL-1

Tree Stratum (Plot size: <u>30 ft</u>)	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
	<u>0</u>	= Total Cover		
Sapling/Shrub Stratum (Plot size: <u>15 ft</u>)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
	<u>0</u>	= Total Cover		
Herb Stratum (Plot size: <u>5 ft</u>)				
1. <i>Elaeagnus umbellata</i>	35	Yes	Upl	
2. <i>Solidago canadensis</i>	25	Yes	FACU	
3. <i>Taraxacum officinale</i>	8	No	FACU	
4. <i>Fraxinus americana</i>	2	No	FACU	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
11. _____	_____	_____	_____	
12. _____	_____	_____	_____	
	<u>70</u>	= Total Cover		
Woody Vine Stratum (Plot size: <u>30 ft</u>)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
	<u>0</u>	= Total Cover		

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)

Total Number of Dominant Species Across All Strata: 2 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 0 (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply By:
OBL species <u>0</u>	x 1 = <u>0</u>
FACW species <u>0</u>	x 2 = <u>0</u>
FAC species <u>0</u>	x 3 = <u>0</u>
FACU species <u>35</u>	x 4 = <u>140</u>
UPL species <u>0</u>	x 5 = <u>0</u>
Column Totals <u>35</u>	(A) <u>140</u> (B)

Prevalence Index = B/A = 4

Hydrophytic Vegetation Indicators:

____ 1- Rapid Test for Hydrophytic Vegetation

____ 2 - Dominance Test is > 50%

____ 3 - Prevalence Index is ≤ 3.0¹

____ 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)

____ Problematic Hydrophytic Vegetation¹ (Explain)

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 at 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 size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? Yes ____ No ✓

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: W-NWJ-23; UPL-1

[illegible]

Hydrology Photos



Vegetation Photos



Soil Photos



WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Trelina City/County: Geneva, Ontario Sampling Date: 2019-June-26
 Applicant/Owner: NextEra State: NY Sampling Point: W-NWJ-24; PEM-1
 Investigator(s): Nick DeJohn, Nate Jones Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none): Concave Slope (%): 0-1
 Subregion (LRR or MLRA): LRR L Lat: 42.8705975992 Long: -76.9795604918 Datum: WGS84
 Soil Map Unit Name: Claverack loamy fine sand, 0 to 2 percent slopes NWI classification: _____
 Are climatic/hydrologic conditions on the site typical for this time of year? Yes ____ No ☒ (If no, explain in Remarks.)
 Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes ☒ No ____
 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?	Yes <input checked="" type="checkbox"/> No ____	
Hydric Soil Present?	Yes <input checked="" type="checkbox"/> No ____	Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No ____
Wetland Hydrology Present?	Yes <input checked="" type="checkbox"/> No ____	If yes, optional Wetland Site ID: <u>W-NWJ-24</u>
Remarks: (Explain alternative procedures here or in a separate report)		
<p>TRC coverype is PEM. Wetter than average year</p>		

HYDROLOGY

Wetland Hydrology Indicators:			
<u>Primary Indicators (minimum of one is required; check all that apply)</u>		<u>Secondary Indicators (minimum of two required)</u>	
<input checked="" type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)	
<input checked="" type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)	
<input checked="" type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)	<input type="checkbox"/> Moss Trim Lines (B16)	
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Dry-Season Water Table (C2)	
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Crayfish Burrows (C8)	
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)	
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Stunted or Stressed Plants (D1)	
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Geomorphic Position (D2)	
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)	
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<input type="checkbox"/> Microtopographic Relief (D4)	
		<input checked="" type="checkbox"/> FAC-Neutral Test (D5)	
Field Observations:			
Surface Water Present?	Yes <input checked="" type="checkbox"/> No ____	Depth (inches):	<u>2</u>
Water Table Present?	Yes <input checked="" type="checkbox"/> No ____	Depth (inches):	<u>0</u>
Saturation Present?	Yes <input checked="" type="checkbox"/> No ____	Depth (inches):	<u>0</u>
(includes capillary fringe)		Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No ____	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:			
Remarks:			

Sampling Point: W-NWJ-24; PEM-1

Northcentral and Northeast Region -- Version 2.0 Adapted by TRC

SOIL

Sampling Point: W-NWJ-24; PEM-1

[illegible]

Hydrology Photos



Vegetation Photos



Soil Photos



WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Trelina City/County: Geneva, 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.): Agricultural Field Local relief (concave, convex, none): Flat Slope (%): 0-1
 Subregion (LRR or MLRA): LRR L Lat: 42.8705064542 Long: -76.9794591416 Datum: WGS84
 Soil Map Unit Name: Claverack loamy fine sand, 0 to 2 percent slopes NWI classification: _____
 Are climatic/hydrologic conditions on the site typical for this time of year? Yes ____ No ✓ (If no, explain in Remarks.)
 Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes ✓ No ____
 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?	Yes ____ No <u>✓</u>	
Hydric Soil Present?	Yes ____ No <u>✓</u>	Is the Sampled Area within a Wetland? Yes ____ No <u>✓</u>
Wetland Hydrology Present?	Yes ____ No <u>✓</u>	If yes, optional Wetland Site ID: _____
Remarks: (Explain alternative procedures here or in a separate report)		
TRC coverype is UPL. Recent rain		

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u>			<u>Secondary Indicators (minimum of two required)</u>		
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)			
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)			
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)	<input type="checkbox"/> Moss Trim Lines (B16)			
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Dry-Season Water Table (C2)			
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Crayfish Burrows (C8)			
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)			
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Stunted or Stressed Plants (D1)			
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Geomorphic Position (D2)			
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)			
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<input type="checkbox"/> Microtopographic Relief (D4)			
		<input type="checkbox"/> FAC-Neutral Test (D5)			
Field Observations:					
Surface Water Present?	Yes ____ No <u>✓</u>	Depth (inches): _____	Wetland Hydrology Present? Yes ____ No <u>✓</u>		
Water Table Present?	Yes ____ No <u>✓</u>	Depth (inches): _____			
Saturation Present?	Yes ____ No <u>✓</u>	Depth (inches): _____			
(includes capillary fringe)					
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:					
Remarks:					

VEGETATION -- Use scientific names of plants.

Sampling Point: W-NWJ-24; UPL-1

Tree Stratum (Plot size: <u>30 ft</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:				
1. _____	_____	_____	_____	Number of Dominant Species That Are OBL, FACW, or FAC:	<u>0</u>	(A)		
2. _____	_____	_____	_____	Total Number of Dominant Species Across All Strata:	<u>2</u>	(B)		
3. _____	_____	_____	_____	Percent of Dominant Species That Are OBL, FACW, or FAC:	<u>0</u>	(A/B)		
4. _____	_____	_____	_____	Prevalence Index worksheet:				
5. _____	_____	_____	_____	<u>Total % Cover of:</u>		<u>Multiply By:</u>		
6. _____	_____	_____	_____	OBL species	<u>0</u>	x 1 =	<u>0</u>	
7. _____	_____	_____	_____	FACW species	<u>0</u>	x 2 =	<u>0</u>	
	<u>0</u>	= Total Cover			FAC species	<u>0</u>	x 3 =	<u>0</u>
Sapling/Shrub Stratum (Plot size: <u>15 ft</u>)				FACU species	<u>40</u>	x 4 =	<u>160</u>	
1. _____	_____	_____	_____	UPL species	<u>0</u>	x 5 =	<u>0</u>	
2. _____	_____	_____	_____	Column Totals	<u>40</u>	(A)	<u>160</u> (B)	
3. _____	_____	_____	_____	Prevalence Index = B/A = <u>4</u>				
4. _____	_____	_____	_____	Hydrophytic Vegetation Indicators:				
5. _____	_____	_____	_____	____ 1- Rapid Test for Hydrophytic Vegetation				
6. _____	_____	_____	_____	____ 2 - Dominance Test is > 50%				
7. _____	_____	_____	_____	____ 3 - Prevalence Index is ≤ 3.0 ¹				
	<u>0</u>	= Total Cover			____ 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)			
Herb Stratum (Plot size: <u>5 ft</u>)				____ Problematic Hydrophytic Vegetation ¹ (Explain)				
1. <i>Ambrosia artemisiifolia</i>	<u>30</u>	Yes	FACU	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic				
2. <i>Trifolium repens</i>	<u>10</u>	Yes	FACU	Definitions of Vegetation Strata:				
3. _____	_____	_____	_____	Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.				
4. _____	_____	_____	_____	Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.				
5. _____	_____	_____	_____	Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.				
6. _____	_____	_____	_____	Woody vines – All woody vines greater than 3.28 ft in height.				
7. _____	_____	_____	_____	Hydrophytic Vegetation Present? Yes ____ No <u>✓</u>				
8. _____	_____	_____	_____					
9. _____	_____	_____	_____					
10. _____	_____	_____	_____					
11. _____	_____	_____	_____					
12. _____	_____	_____	_____					
	<u>40</u>	= Total Cover						
Woody Vine Stratum (Plot size: <u>30 ft</u>)								
1. _____	_____	_____	_____					
2. _____	_____	_____	_____					
3. _____	_____	_____	_____					
4. _____	_____	_____	_____					
	<u>0</u>	= Total Cover						
Remarks: (Include photo numbers here or on a separate sheet.)								

SOIL

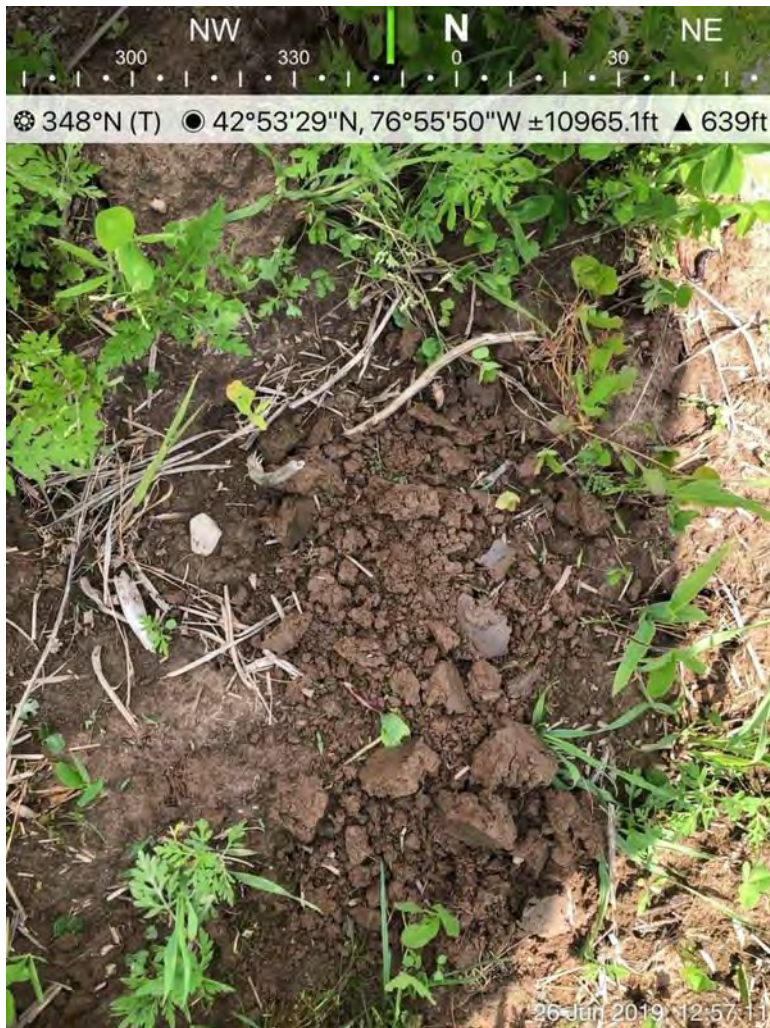
Sampling Point: W-NWJ-24; UPL-1

[illegible]

Vegetation Photos



Soil Photos



WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Trelina City/County: Geneva, Ontario Sampling Date: 2019-June-26
 Applicant/Owner: NextEra State: NY Sampling Point: W-NWJ-25; PFO-1
 Investigator(s): Nick DeJohn, Nate Jones Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none): Concave Slope (%): 2-5
 Subregion (LRR or MLRA): LRR L Lat: 42.8704265975 Long: -76.9793335847 Datum: WGS84
 Soil Map Unit Name: Cosad loamy fine sand NWI classification: _____
 Are climatic/hydrologic conditions on the site typical for this time of year? Yes ____ No ✓ (If no, explain in Remarks.)
 Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes ✓ No ____
 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?	Yes <u>✓</u> No ____	
Hydric Soil Present?	Yes <u>✓</u> No ____	Is the Sampled Area within a Wetland? Yes <u>✓</u> No ____
Wetland Hydrology Present?	Yes <u>✓</u> No ____	If yes, optional Wetland Site ID: <u>W-NWJ-25</u>
Remarks: (Explain alternative procedures here or in a separate report) TRC coverype is PFO. Wetter than average year		

HYDROLOGY

Wetland Hydrology Indicators:			
<u>Primary Indicators (minimum of one is required; check all that apply)</u>		<u>Secondary Indicators (minimum of two required)</u>	
<input checked="" type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)	
<input checked="" type="checkbox"/> High Water Table (A2)	<input checked="" type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)	
<input checked="" type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)	<input type="checkbox"/> Moss Trim Lines (B16)	
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Dry-Season Water Table (C2)	
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Crayfish Burrows (C8)	
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)	
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input checked="" type="checkbox"/> Stunted or Stressed Plants (D1)	
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input checked="" type="checkbox"/> Geomorphic Position (D2)	
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)	
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<input type="checkbox"/> Microtopographic Relief (D4)	
		<input type="checkbox"/> FAC-Neutral Test (D5)	
Field Observations:			
Surface Water Present?	Yes <u>✓</u> No ____	Depth (inches):	<u>6</u>
Water Table Present?	Yes <u>✓</u> No ____	Depth (inches):	<u>0</u>
Saturation Present?	Yes <u>✓</u> No ____	Depth (inches):	<u>0</u>
(includes capillary fringe)		Wetland Hydrology Present? Yes <u>✓</u> No ____	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:			
Remarks:			

VEGETATION -- Use scientific names of plants.

Sampling Point: W-NWJ-25; PFO-1

Tree Stratum (Plot size: <u>30 ft</u>)	Absolute % Cover	Dominant Species?	Indicator Status																	
1. <i>Fraxinus pennsylvanica</i>	35	Yes	FACW	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>4</u> (A) Total Number of Dominant Species Across All Strata: <u>5</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>80</u> (A/B)																
2. <i>Acer rubrum</i>	25	Yes	FAC																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
	60	= Total Cover		Prevalence Index worksheet: <table style="width: 100%;"> <thead> <tr> <th style="text-align: left;">Total % Cover of:</th> <th style="text-align: left;">Multiply By:</th> </tr> </thead> <tbody> <tr> <td>OBL species <u>0</u></td> <td>x 1 = <u>0</u></td> </tr> <tr> <td>FACW species <u>35</u></td> <td>x 2 = <u>70</u></td> </tr> <tr> <td>FAC species <u>100</u></td> <td>x 3 = <u>300</u></td> </tr> <tr> <td>FACU species <u>15</u></td> <td>x 4 = <u>60</u></td> </tr> <tr> <td>UPL species <u>0</u></td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals <u>150</u></td> <td>(A) <u>430</u> (B)</td> </tr> <tr> <td colspan="2">Prevalence Index = B/A = <u>2.9</u></td> </tr> </tbody> </table>	Total % Cover of:	Multiply By:	OBL species <u>0</u>	x 1 = <u>0</u>	FACW species <u>35</u>	x 2 = <u>70</u>	FAC species <u>100</u>	x 3 = <u>300</u>	FACU species <u>15</u>	x 4 = <u>60</u>	UPL species <u>0</u>	x 5 = <u>0</u>	Column Totals <u>150</u>	(A) <u>430</u> (B)	Prevalence Index = B/A = <u>2.9</u>	
Total % Cover of:	Multiply By:																			
OBL species <u>0</u>	x 1 = <u>0</u>																			
FACW species <u>35</u>	x 2 = <u>70</u>																			
FAC species <u>100</u>	x 3 = <u>300</u>																			
FACU species <u>15</u>	x 4 = <u>60</u>																			
UPL species <u>0</u>	x 5 = <u>0</u>																			
Column Totals <u>150</u>	(A) <u>430</u> (B)																			
Prevalence Index = B/A = <u>2.9</u>																				
Sapling/Shrub Stratum (Plot size: <u>15 ft</u>)																				
1. <i>Rhamnus cathartica</i>	20	Yes	FAC																	
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
	20	= Total Cover																		
Herb Stratum (Plot size: <u>5 ft</u>)																				
1. <i>Toxicodendron radicans</i>	45	Yes	FAC	Hydrophytic Vegetation Indicators: ____ 1- Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is >50% <input checked="" type="checkbox"/> 3 - Prevalence Index is ≤ 3.0 ¹ ____ 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) ____ Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic																
2. <i>Parthenocissus quinquefolia</i>	15	Yes	FACU																	
3. <i>Arisaema triphyllum</i>	10	No	FAC																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
8. _____	_____	_____	_____																	
9. _____	_____	_____	_____																	
10. _____	_____	_____	_____																	
11. _____	_____	_____	_____																	
12. _____	_____	_____	_____																	
	70	= Total Cover																		
Woody Vine Stratum (Plot size: <u>30 ft</u>)																				
1. _____	_____	_____	_____																	
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
	0	= Total Cover																		
Remarks: (Include photo numbers here or on a separate sheet.)				Definitions of Vegetation Strata: Tree – Woody plants 3 in. (7.6 cm) or more in diameter at 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 size, and woody plants less than 3.28 ft tall. Woody vines – All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No ____																

SOIL

Sampling Point: W-NWJ-25; PFO-1

[illegible]

Hydrology Photos



Vegetation Photos



Soil Photos



WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Trelina City/County: Geneva, Ontario Sampling Date: 2019-June-26
 Applicant/Owner: NextEra State: NY Sampling Point: W-NWJ-25; UPL-1
 Investigator(s): Nick DeJohn, Nate Jones Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): Hillslope Local relief (concave, convex, none): Convex Slope (%): 2-5
 Subregion (LRR or MLRA): LRR L Lat: 42.8707021382 Long: -76.9794110489 Datum: WGS84
 Soil Map Unit Name: Cosad loamy fine sand NWI classification: _____
 Are climatic/hydrologic conditions on the site typical for this time of year? Yes ____ No ✓ (If no, explain in Remarks.)
 Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes ✓ No ____
 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?	Yes ____ No <u>✓</u>	
Hydric Soil Present?	Yes ____ No <u>✓</u>	Is the Sampled Area within a Wetland? Yes ____ No <u>✓</u>
Wetland Hydrology Present?	Yes ____ No <u>✓</u>	If yes, optional Wetland Site ID: _____
Remarks: (Explain alternative procedures here or in a separate report) TRC coverype is UPL. Recent rain		

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u>			<u>Secondary Indicators (minimum of two required)</u>		
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)			
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)			
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)	<input type="checkbox"/> Moss Trim Lines (B16)			
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Dry-Season Water Table (C2)			
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Crayfish Burrows (C8)			
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)			
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Stunted or Stressed Plants (D1)			
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Geomorphic Position (D2)			
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)			
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<input type="checkbox"/> Microtopographic Relief (D4)			
		<input type="checkbox"/> FAC-Neutral Test (D5)			
Field Observations: Surface Water Present? Yes ____ No <u>✓</u> Depth (inches): _____ Water Table Present? Yes ____ No <u>✓</u> Depth (inches): _____ Saturation Present? Yes ____ No <u>✓</u> Depth (inches): _____ (includes capillary fringe)			Wetland Hydrology Present? Yes ____ No <u>✓</u>		
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:					
Remarks:					

VEGETATION -- Use scientific names of plants.

Sampling Point: W-NWJ-25; UPL-1

Tree Stratum (Plot size: <u>30 ft</u>)	Absolute % Cover	Dominant Species?	Indicator Status																																									
1. <i>Fraxinus pennsylvanica</i>	30	Yes	FACW	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>5</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>40</u> (A/B)																																								
2. <i>Fagus grandifolia</i>	20	Yes	FACU																																									
3. <i>Acer rubrum</i>	15	Yes	FAC																																									
4. _____	_____	_____	_____																																									
5. _____	_____	_____	_____	Prevalence Index worksheet: <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 30%; text-align: left;">Total % Cover of:</th> <th style="width: 10%;"></th> <th style="width: 10%; text-align: left;">Multiply By:</th> <th style="width: 10%;"></th> <th style="width: 10%;"></th> </tr> </thead> <tbody> <tr> <td>OBL species</td> <td><u>0</u></td> <td>x 1 =</td> <td><u>0</u></td> <td></td> </tr> <tr> <td>FACW species</td> <td><u>30</u></td> <td>x 2 =</td> <td><u>60</u></td> <td></td> </tr> <tr> <td>FAC species</td> <td><u>15</u></td> <td>x 3 =</td> <td><u>45</u></td> <td></td> </tr> <tr> <td>FACU species</td> <td><u>70</u></td> <td>x 4 =</td> <td><u>280</u></td> <td></td> </tr> <tr> <td>UPL species</td> <td><u>0</u></td> <td>x 5 =</td> <td><u>0</u></td> <td></td> </tr> <tr> <td>Column Totals</td> <td><u>115</u></td> <td>(A)</td> <td><u>385</u></td> <td>(B)</td> </tr> <tr> <td colspan="5">Prevalence Index = B/A = <u>3.3</u></td> </tr> </tbody> </table>	Total % Cover of:		Multiply By:			OBL species	<u>0</u>	x 1 =	<u>0</u>		FACW species	<u>30</u>	x 2 =	<u>60</u>		FAC species	<u>15</u>	x 3 =	<u>45</u>		FACU species	<u>70</u>	x 4 =	<u>280</u>		UPL species	<u>0</u>	x 5 =	<u>0</u>		Column Totals	<u>115</u>	(A)	<u>385</u>	(B)	Prevalence Index = B/A = <u>3.3</u>				
Total % Cover of:		Multiply By:																																										
OBL species	<u>0</u>	x 1 =	<u>0</u>																																									
FACW species	<u>30</u>	x 2 =	<u>60</u>																																									
FAC species	<u>15</u>	x 3 =	<u>45</u>																																									
FACU species	<u>70</u>	x 4 =	<u>280</u>																																									
UPL species	<u>0</u>	x 5 =	<u>0</u>																																									
Column Totals	<u>115</u>	(A)	<u>385</u>	(B)																																								
Prevalence Index = B/A = <u>3.3</u>																																												
6. _____	_____	_____	_____																																									
7. _____	_____	_____	_____																																									
	<u>65</u>	= Total Cover																																										
Sapling/Shrub Stratum (Plot size: <u>15 ft</u>)				Hydrophytic Vegetation Indicators: ____ 1- Rapid Test for Hydrophytic Vegetation ____ 2 - Dominance Test is > 50% ____ 3 - Prevalence Index is ≤ 3.0 ¹ ____ 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) ____ Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic																																								
1. _____	_____	_____	_____																																									
2. _____	_____	_____	_____																																									
3. _____	_____	_____	_____																																									
4. _____	_____	_____	_____	Definitions of Vegetation Strata: Tree – Woody plants 3 in. (7.6 cm) or more in diameter at 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 size, and woody plants less than 3.28 ft tall. Woody vines – All woody vines greater than 3.28 ft in height.																																								
5. _____	_____	_____	_____																																									
6. _____	_____	_____	_____																																									
7. _____	_____	_____	_____																																									
	<u>0</u>	= Total Cover		Hydrophytic Vegetation Present? Yes ____ No <u>✓</u>																																								
Herb Stratum (Plot size: <u>5 ft</u>)																																												
1. <i>Podophyllum peltatum</i>	40	Yes	FACU																																									
2. <i>Parthenocissus quinquefolia</i>	10	Yes	FACU																																									
3. _____	_____	_____	_____																																									
4. _____	_____	_____	_____																																									
5. _____	_____	_____	_____																																									
6. _____	_____	_____	_____																																									
7. _____	_____	_____	_____																																									
8. _____	_____	_____	_____																																									
9. _____	_____	_____	_____																																									
10. _____	_____	_____	_____																																									
11. _____	_____	_____	_____																																									
12. _____	_____	_____	_____																																									
	<u>50</u>	= Total Cover																																										
Woody Vine Stratum (Plot size: <u>30 ft</u>)																																												
1. _____	_____	_____	_____																																									
2. _____	_____	_____	_____																																									
3. _____	_____	_____	_____																																									
4. _____	_____	_____	_____																																									
	<u>0</u>	= Total Cover																																										

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: W-NWJ-25; UPL-1

[illegible]

Hydrology Photos



Vegetation Photos



Soil Photos



WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Trelina City/County: Geneva, Ontario Sampling Date: 2019-June-26
 Applicant/Owner: NextEra State: NY Sampling Point: W-NWJ-26; PEM-1
 Investigator(s): Nick DeJohn, Nate Jones Section, Township, Range:
 Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none): Concave Slope (%): 0-1
 Subregion (LRR or MLRA): LRR L Lat: 42.8705133321 Long: -76.9794173057 Datum: WGS84
 Soil Map Unit Name: Cosad loamy fine sand NWI classification:
 Are climatic/hydrologic conditions on the site typical for this time of year? Yes ___ No ☒ (If no, explain in Remarks.)
 Are Vegetation __, Soil __, or Hydrology __ significantly disturbed? Are "Normal Circumstances" present? Yes ☒ No ___
 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?	Yes <input checked="" type="checkbox"/> No ___	Is the Sampled Area within a Wetland?	Yes <input checked="" type="checkbox"/> No ___
Hydric Soil Present?	Yes <input checked="" type="checkbox"/> No ___	If yes, optional Wetland Site ID:	W-NWJ-26
Wetland Hydrology Present?	Yes <input checked="" type="checkbox"/> No ___		
Remarks: (Explain alternative procedures here or in a separate report)			
TRC coverype is PEM. Wetter			

HYDROLOGY

Wetland Hydrology Indicators:			
Primary Indicators (minimum of one is required; check all that apply)		Secondary Indicators (minimum of two required)	
<input checked="" type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)	
<input checked="" type="checkbox"/> High Water Table (A2)	<input checked="" type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)	
<input checked="" type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)	<input type="checkbox"/> Moss Trim Lines (B16)	
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Dry-Season Water Table (C2)	
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Crayfish Burrows (C8)	
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)	
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Stunted or Stressed Plants (D1)	
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Geomorphic Position (D2)	
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)	
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<input type="checkbox"/> Microtopographic Relief (D4)	
		<input checked="" type="checkbox"/> FAC-Neutral Test (D5)	
Field Observations:			
Surface Water Present?	Yes <input checked="" type="checkbox"/> No ___	Depth (inches):	3
Water Table Present?	Yes <input checked="" type="checkbox"/> No ___	Depth (inches):	0
Saturation Present?	Yes <input checked="" type="checkbox"/> No ___	Depth (inches):	0
(includes capillary fringe)			
Wetland Hydrology Present?		Yes <input checked="" type="checkbox"/> No ___	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:			
Remarks:			

Sampling Point: W-NWJ-26; PEM-1

Tree Stratum (Plot size: 30 ft)			Absolute % Cover	Dominant Species?	Indicator Status
1.					
2.					
3.					
4.					
5.					
6.					
7.					
			0	= Total Cover	
Sapling/Shrub Stratum (Plot size: 15 ft)			Absolute % Cover	Dominant Species?	Indicator Status
1.					
2.					
3.					
4.					
5.					
6.					
7.					
			0	= Total Cover	
Herb Stratum (Plot size: 5 ft)			Absolute % Cover	Dominant Species?	Indicator Status
1.	<i>Juncus effusus</i>		40	Yes	OBL
2.	<i>Phalaris arundinacea</i>		15	Yes	FACW
3.	<i>Alisma triviale</i>		10	No	OBL
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
			65	= Total Cover	
Woody Vine Stratum (Plot size: 30 ft)			Absolute % Cover	Dominant Species?	Indicator Status
1.					
2.					
3.					
4.					
			0	= Total Cover	

Remarks: (Include photo numbers here or on a separate sheet.)

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)

Total Number of Dominant Species Across All Strata: 2 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply By:
OBL species 50	x 1 = 50
FACW species 15	x 2 = 30
FAC species 0	x 3 = 0
FACU species 0	x 4 = 0
UPL species 0	x 5 = 0
Column Totals 65	(A) 80 (B)
Prevalence Index = B/A = 1.2	

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 at 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 size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? Yes ☒ No ☐

SOIL

Sampling Point: W-NWJ-26; PEM-1

[illegible]

Hydrology Photos



Vegetation Photos



Soil Photos



WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Trelina City/County: Geneva, Ontario Sampling Date: 2019-June-26
 Applicant/Owner: NextEra State: NY Sampling Point: W-NWJ-26; PFO-1
 Investigator(s): Nick DeJohn, Nate Jones Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none): Concave Slope (%): 0-1
 Subregion (LRR or MLRA): LRR L Lat: 42.8707021382 Long: -76.9794110489 Datum: WGS84
 Soil Map Unit Name: Cosad loamy fine sand NWI classification: _____
 Are climatic/hydrologic conditions on the site typical for this time of year? Yes ____ No ☒ (If no, explain in Remarks.)
 Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes ☒ No ____
 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?	Yes <input checked="" type="checkbox"/> No ____	
Hydric Soil Present?	Yes <input checked="" type="checkbox"/> No ____	Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No ____
Wetland Hydrology Present?	Yes <input checked="" type="checkbox"/> No ____	If yes, optional Wetland Site ID: W-NWJ-26
Remarks: (Explain alternative procedures here or in a separate report)		
<p>TRC coverype is PFO. Wetter than average year</p>		

HYDROLOGY

Wetland Hydrology Indicators:			
<u>Primary Indicators (minimum of one is required; check all that apply)</u>		<u>Secondary Indicators (minimum of two required)</u>	
<input checked="" type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)	
<input checked="" type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)	
<input checked="" type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)	<input type="checkbox"/> Moss Trim Lines (B16)	
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Dry-Season Water Table (C2)	
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Crayfish Burrows (C8)	
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)	
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Stunted or Stressed Plants (D1)	
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Geomorphic Position (D2)	
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)	
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<input type="checkbox"/> Microtopographic Relief (D4)	
		<input checked="" type="checkbox"/> FAC-Neutral Test (D5)	
Field Observations:			
Surface Water Present?	Yes <input checked="" type="checkbox"/> No ____	Depth (inches):	<u>2</u>
Water Table Present?	Yes <input checked="" type="checkbox"/> No ____	Depth (inches):	<u>0</u>
Saturation Present?	Yes <input checked="" type="checkbox"/> No ____	Depth (inches):	<u>0</u>
(includes capillary fringe)		Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No ____	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:			
Remarks:			

VEGETATION -- Use scientific names of plants.

Sampling Point: W-NWJ-26; PFO-1

Tree Stratum (Plot size: <u>30 ft</u>)	Absolute % Cover	Dominant Species?	Indicator Status																																									
1. <i>Acer rubrum</i>	40	Yes	FAC	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>4</u> (A) Total Number of Dominant Species Across All Strata: <u>4</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)																																								
2. _____	_____	_____	_____																																									
3. _____	_____	_____	_____																																									
4. _____	_____	_____	_____																																									
5. _____	_____	_____	_____																																									
6. _____	_____	_____	_____																																									
7. _____	_____	_____	_____																																									
40 = Total Cover																																												
Sapling/Shrub Stratum (Plot size: <u>15 ft</u>)																																												
1. <i>Cornus amomum</i>	20	Yes	FACW	Prevalence Index worksheet: <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 40%; text-align: left;">Total % Cover of:</th> <th style="width: 10%;"></th> <th style="width: 10%;">Multiply By:</th> <th style="width: 10%;"></th> <th style="width: 10%;"></th> </tr> </thead> <tbody> <tr> <td>OBL species</td> <td>0</td> <td>x 1 =</td> <td>0</td> <td></td> </tr> <tr> <td>FACW species</td> <td>20</td> <td>x 2 =</td> <td>40</td> <td></td> </tr> <tr> <td>FAC species</td> <td>65</td> <td>x 3 =</td> <td>195</td> <td></td> </tr> <tr> <td>FACU species</td> <td>0</td> <td>x 4 =</td> <td>0</td> <td></td> </tr> <tr> <td>UPL species</td> <td>0</td> <td>x 5 =</td> <td>0</td> <td></td> </tr> <tr> <td>Column Totals</td> <td>85</td> <td>(A)</td> <td>235</td> <td>(B)</td> </tr> <tr> <td colspan="5">Prevalence Index = B/A = <u>2.8</u></td> </tr> </tbody> </table>	Total % Cover of:		Multiply By:			OBL species	0	x 1 =	0		FACW species	20	x 2 =	40		FAC species	65	x 3 =	195		FACU species	0	x 4 =	0		UPL species	0	x 5 =	0		Column Totals	85	(A)	235	(B)	Prevalence Index = B/A = <u>2.8</u>				
Total % Cover of:		Multiply By:																																										
OBL species	0	x 1 =	0																																									
FACW species	20	x 2 =	40																																									
FAC species	65	x 3 =	195																																									
FACU species	0	x 4 =	0																																									
UPL species	0	x 5 =	0																																									
Column Totals	85	(A)	235	(B)																																								
Prevalence Index = B/A = <u>2.8</u>																																												
2. _____	_____	_____	_____																																									
3. _____	_____	_____	_____																																									
4. _____	_____	_____	_____																																									
5. _____	_____	_____	_____																																									
6. _____	_____	_____	_____																																									
7. _____	_____	_____	_____																																									
20 = Total Cover																																												
Herb Stratum (Plot size: <u>5 ft</u>)																																												
1. <i>Toxicodendron radicans</i>	15	Yes	FAC	Hydrophytic Vegetation Indicators: ____ 1- Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is >50% <input checked="" type="checkbox"/> 3 - Prevalence Index is ≤ 3.0 ¹ ____ 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) ____ Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic																																								
2. <i>Rhamnus cathartica</i>	10	Yes	FAC																																									
3. _____	_____	_____	_____																																									
4. _____	_____	_____	_____																																									
5. _____	_____	_____	_____																																									
6. _____	_____	_____	_____																																									
7. _____	_____	_____	_____																																									
8. _____	_____	_____	_____																																									
9. _____	_____	_____	_____																																									
10. _____	_____	_____	_____																																									
11. _____	_____	_____	_____																																									
12. _____	_____	_____	_____																																									
25 = Total Cover																																												
Woody Vine Stratum (Plot size: <u>30 ft</u>)																																												
1. _____	_____	_____	_____	Definitions of Vegetation Strata: Tree – Woody plants 3 in. (7.6 cm) or more in diameter at 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 size, and woody plants less than 3.28 ft tall. Woody vines – All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No ____																																								
2. _____	_____	_____	_____																																									
3. _____	_____	_____	_____																																									
4. _____	_____	_____	_____																																									
0 = Total Cover																																												
Remarks: (Include photo numbers here or on a separate sheet.)																																												

SOIL

Sampling Point: W-NWJ-26; PFO-1

[illegible]

Hydrology Photos



Vegetation Photos



Soil Photos



WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Trelina City/County: Geneva, Ontario Sampling Date: 2019-June-26
 Applicant/Owner: NextEra State: NY Sampling Point: W-NWJ-26; UPL-1
 Investigator(s): Nick DeJohn, Nate Jones Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): Agricultural Field Local relief (concave, convex, none): Flat Slope (%): 0-1
 Subregion (LRR or MLRA): LRR L Lat: 42.8705063443 Long: -76.979376193 Datum: WGS84
 Soil Map Unit Name: Cosad loamy fine sand NWI classification: _____
 Are climatic/hydrologic conditions on the site typical for this time of year? Yes ____ No ✓ (If no, explain in Remarks.)
 Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes ✓ No ____
 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?	Yes ____ No <u>✓</u>	
Hydric Soil Present?	Yes ____ No <u>✓</u>	Is the Sampled Area within a Wetland? Yes ____ No <u>✓</u>
Wetland Hydrology Present?	Yes ____ No <u>✓</u>	If yes, optional Wetland Site ID: _____
Remarks: (Explain alternative procedures here or in a separate report)		
<p>TRC coverype is UPL. Recent rain</p>		

HYDROLOGY

Wetland Hydrology Indicators:		
Primary Indicators (minimum of one is required; check all that apply)		Secondary Indicators (minimum of two required)
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)	<input type="checkbox"/> Moss Trim Lines (B16)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Stunted or Stressed Plants (D1)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<input type="checkbox"/> Microtopographic Relief (D4)
		<input type="checkbox"/> FAC-Neutral Test (D5)
Field Observations:		
Surface Water Present? Yes ____ No <u>✓</u>	Depth (inches): _____	Wetland Hydrology Present? Yes ____ No <u>✓</u>
Water Table Present? Yes ____ No <u>✓</u>	Depth (inches): _____	
Saturation Present? Yes ____ No <u>✓</u>	Depth (inches): _____	
(includes capillary fringe)		
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:		
Remarks:		

VEGETATION -- Use scientific names of plants.

Sampling Point: W-NWJ-26; UPL-1

Tree Stratum (Plot size: <u>30 ft</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:			
1. _____	_____	_____	_____	Number of Dominant Species That Are OBL, FACW, or FAC:	<u>0</u>	(A)	
2. _____	_____	_____	_____	Total Number of Dominant Species Across All Strata:	<u>1</u>	(B)	
3. _____	_____	_____	_____	Percent of Dominant Species That Are OBL, FACW, or FAC:	<u>0</u>	(A/B)	
4. _____	_____	_____	_____	Prevalence Index worksheet:			
5. _____	_____	_____	_____	Total % Cover of:		Multiply By:	
6. _____	_____	_____	_____	OBL species	<u>0</u>	x 1 =	<u>0</u>
7. _____	_____	_____	_____	FACW species	<u>0</u>	x 2 =	<u>0</u>
	<u>0</u>	= Total Cover		FAC species	<u>0</u>	x 3 =	<u>0</u>
Sapling/Shrub Stratum (Plot size: <u>15 ft</u>)	_____	_____	_____	FACU species	<u>60</u>	x 4 =	<u>240</u>
1. _____	_____	_____	_____	UPL species	<u>0</u>	x 5 =	<u>0</u>
2. _____	_____	_____	_____	Column Totals	<u>60</u>	(A)	<u>240</u> (B)
3. _____	_____	_____	_____	Prevalence Index = B/A = <u>4</u>			
4. _____	_____	_____	_____	Hydrophytic Vegetation Indicators:			
5. _____	_____	_____	_____	____ 1- Rapid Test for Hydrophytic Vegetation			
6. _____	_____	_____	_____	____ 2 - Dominance Test is > 50%			
7. _____	_____	_____	_____	____ 3 - Prevalence Index is ≤ 3.0 ¹			
	<u>0</u>	= Total Cover		____ 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)			
Herb Stratum (Plot size: <u>5 ft</u>)	_____	_____	_____	____ Problematic Hydrophytic Vegetation ¹ (Explain)			
1. <i>Trifolium repens</i>	<u>60</u>	Yes	FACU	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic			
2. _____	_____	_____	_____	Definitions of Vegetation Strata:			
3. _____	_____	_____	_____	Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.			
4. _____	_____	_____	_____	Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.			
5. _____	_____	_____	_____	Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.			
6. _____	_____	_____	_____	Woody vines – All woody vines greater than 3.28 ft in height.			
7. _____	_____	_____	_____	Hydrophytic Vegetation Present? Yes ____ No <u>✓</u>			
8. _____	_____	_____	_____				
9. _____	_____	_____	_____				
10. _____	_____	_____	_____				
11. _____	_____	_____	_____				
12. _____	_____	_____	_____				
	<u>60</u>	= Total Cover					
Woody Vine Stratum (Plot size: <u>30 ft</u>)	_____	_____	_____				
1. _____	_____	_____	_____				
2. _____	_____	_____	_____				
3. _____	_____	_____	_____				
4. _____	_____	_____	_____				
	<u>0</u>	= Total Cover					
Remarks: (Include photo numbers here or on a separate sheet.)							

SOIL

Sampling Point: W-NWJ-26; UPL-1

[illegible]

Vegetation Photos



Soil Photos



WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Trelina City/County: Geneva, Ontario Sampling Date: 2019-June-26
 Applicant/Owner: NextEra State: NY Sampling Point: W-NWJ-27; PEM-1
 Investigator(s): Nick DeJohn, Nate Jones Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none): Concave Slope (%): 0-1
 Subregion (LRR or MLRA): LRR L Lat: 42.8704329534 Long: -76.9793497772 Datum: WGS84
 Soil Map Unit Name: Cosad loamy fine sand NWI classification: _____
 Are climatic/hydrologic conditions on the site typical for this time of year? Yes ____ No ✓ (If no, explain in Remarks.)
 Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes ✓ No ____
 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?	Yes <u>✓</u> No ____	
Hydric Soil Present?	Yes <u>✓</u> No ____	Is the Sampled Area within a Wetland? Yes <u>✓</u> No ____
Wetland Hydrology Present?	Yes <u>✓</u> No ____	If yes, optional Wetland Site ID: <u>W-NWJ-27</u>
Remarks: (Explain alternative procedures here or in a separate report) TRC coverype is PEM. Wetter than average year		

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u>				<u>Secondary Indicators (minimum of two required)</u>	
<input checked="" type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)			
<input checked="" type="checkbox"/> High Water Table (A2)	<input checked="" type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)			
<input checked="" type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)	<input type="checkbox"/> Moss Trim Lines (B16)			
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Dry-Season Water Table (C2)			
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Crayfish Burrows (C8)			
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)			
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Stunted or Stressed Plants (D1)			
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Geomorphic Position (D2)			
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)			
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<input type="checkbox"/> Microtopographic Relief (D4)			
		<input checked="" type="checkbox"/> FAC-Neutral Test (D5)			
Field Observations:					
Surface Water Present?	Yes <u>✓</u> No ____	Depth (inches):	<u>2</u>	Wetland Hydrology Present? Yes <u>✓</u> No ____	
Water Table Present?	Yes <u>✓</u> No ____	Depth (inches):	<u>0</u>		
Saturation Present?	Yes <u>✓</u> No ____	Depth (inches):	<u>0</u>		
(includes capillary fringe)					
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:					
Remarks:					

VEGETATION -- Use scientific names of plants.

Sampling Point: W-NWJ-27; PEM-1

Tree Stratum (Plot size: <u>30 ft</u>)	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
	0	= Total Cover		
Sapling/Shrub Stratum (Plot size: <u>15 ft</u>)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
	0	= Total Cover		
Herb Stratum (Plot size: <u>5 ft</u>)				
1. <i>Carex vulpinoidea</i>	35	Yes	OBL	
2. <i>Persicaria amphibia</i>	25	Yes	OBL	
3. <i>Lythrum salicaria</i>	15	No	OBL	
4. <i>Typha latifolia</i>	10	No	OBL	
5. <i>Alisma triviale</i>	10	No	OBL	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
11. _____	_____	_____	_____	
12. _____	_____	_____	_____	
	95	= Total Cover		
Woody Vine Stratum (Plot size: <u>30 ft</u>)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
	0	= Total Cover		

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)

Total Number of Dominant Species Across All Strata: 2 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply By:
OBL species 95	x 1 = 95
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 95	(A) 95 (B)

Prevalence Index = B/A = 1

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 at 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 size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? Yes ☒ No ____

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: W-NWJ-27; PEM-1

[illegible]

Hydrology Photos



Vegetation Photos



Soil Photos



WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Trelina City/County: Geneva, Ontario Sampling Date: 2019-June-27
 Applicant/Owner: NextEra State: NY Sampling Point: W-NWJ-27; PFO-1
 Investigator(s): Nick DeJohn, Nate Jones Section, Township, Range:
 Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none): Concave Slope (%): 0-1
 Subregion (LRR or MLRA): LRR L Lat: 42.8706157115 Long: -76.9793697408 Datum: WGS84
 Soil Map Unit Name: Arkport loamy fine sand, 1 to 6 percent slopes NWI classification:
 Are climatic/hydrologic conditions on the site typical for this time of year? Yes ___ No ☒ (If no, explain in Remarks.)
 Are Vegetation __, Soil __, or Hydrology __ significantly disturbed? Are "Normal Circumstances" present? Yes ☒ No ___
 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?	Yes <input checked="" type="checkbox"/> No ___	Is the Sampled Area within a Wetland?	Yes <input checked="" type="checkbox"/> No ___
Hydric Soil Present?	Yes <input checked="" type="checkbox"/> No ___	If yes, optional Wetland Site ID:	W-NWJ-27
Wetland Hydrology Present?	Yes <input checked="" type="checkbox"/> No ___		
Remarks: (Explain alternative procedures here or in a separate report)			
TRC coverype is PFO. Wetter than average year			

HYDROLOGY

Wetland Hydrology Indicators:			
Primary Indicators (minimum of one is required; check all that apply)		Secondary Indicators (minimum of two required)	
<input checked="" type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)	
<input checked="" type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)	
<input checked="" type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)	<input type="checkbox"/> Moss Trim Lines (B16)	
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Dry-Season Water Table (C2)	
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Crayfish Burrows (C8)	
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)	
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Stunted or Stressed Plants (D1)	
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Geomorphic Position (D2)	
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)	
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<input type="checkbox"/> Microtopographic Relief (D4)	
		<input type="checkbox"/> FAC-Neutral Test (D5)	
Field Observations:			
Surface Water Present?	Yes <input checked="" type="checkbox"/> No ___	Depth (inches):	3
Water Table Present?	Yes <input checked="" type="checkbox"/> No ___	Depth (inches):	0
Saturation Present?	Yes <input checked="" type="checkbox"/> No ___	Depth (inches):	0
(includes capillary fringe)		Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No ___	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:			
Remarks:			

VEGETATION -- Use scientific names of plants.

Sampling Point: W-NWJ-27; PFO-1

Tree Stratum (Plot size: <u>30 ft</u>)	Absolute % Cover	Dominant Species?	Indicator Status																																									
1. <i>Populus deltoides</i>	50	Yes	FAC	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>3</u> (A) Total Number of Dominant Species Across All Strata: <u>3</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)																																								
2. <i>Acer rubrum</i>	20	Yes	FAC																																									
3. _____	_____	_____	_____																																									
4. _____	_____	_____	_____																																									
5. _____	_____	_____	_____																																									
6. _____	_____	_____	_____																																									
7. _____	_____	_____	_____																																									
	<u>70</u>	= Total Cover		Prevalence Index worksheet: <table style="width: 100%;"> <thead> <tr> <th style="width: 30%;">Total % Cover of:</th> <th style="width: 10%;"></th> <th style="width: 10%;">Multiply By:</th> <th style="width: 10%;"></th> <th style="width: 10%;"></th> </tr> </thead> <tbody> <tr> <td>OBL species</td> <td><u>0</u></td> <td>x 1 =</td> <td><u>0</u></td> <td></td> </tr> <tr> <td>FACW species</td> <td><u>0</u></td> <td>x 2 =</td> <td><u>0</u></td> <td></td> </tr> <tr> <td>FAC species</td> <td><u>100</u></td> <td>x 3 =</td> <td><u>300</u></td> <td></td> </tr> <tr> <td>FACU species</td> <td><u>0</u></td> <td>x 4 =</td> <td><u>0</u></td> <td></td> </tr> <tr> <td>UPL species</td> <td><u>0</u></td> <td>x 5 =</td> <td><u>0</u></td> <td></td> </tr> <tr> <td>Column Totals</td> <td><u>100</u></td> <td>(A)</td> <td><u>300</u></td> <td>(B)</td> </tr> <tr> <td colspan="5">Prevalence Index = B/A = <u>3</u></td> </tr> </tbody> </table>	Total % Cover of:		Multiply By:			OBL species	<u>0</u>	x 1 =	<u>0</u>		FACW species	<u>0</u>	x 2 =	<u>0</u>		FAC species	<u>100</u>	x 3 =	<u>300</u>		FACU species	<u>0</u>	x 4 =	<u>0</u>		UPL species	<u>0</u>	x 5 =	<u>0</u>		Column Totals	<u>100</u>	(A)	<u>300</u>	(B)	Prevalence Index = B/A = <u>3</u>				
Total % Cover of:		Multiply By:																																										
OBL species	<u>0</u>	x 1 =	<u>0</u>																																									
FACW species	<u>0</u>	x 2 =	<u>0</u>																																									
FAC species	<u>100</u>	x 3 =	<u>300</u>																																									
FACU species	<u>0</u>	x 4 =	<u>0</u>																																									
UPL species	<u>0</u>	x 5 =	<u>0</u>																																									
Column Totals	<u>100</u>	(A)	<u>300</u>	(B)																																								
Prevalence Index = B/A = <u>3</u>																																												
Sapling/Shrub Stratum (Plot size: <u>15 ft</u>)																																												
1. _____	_____	_____	_____																																									
2. _____	_____	_____	_____																																									
3. _____	_____	_____	_____																																									
4. _____	_____	_____	_____																																									
5. _____	_____	_____	_____																																									
6. _____	_____	_____	_____																																									
7. _____	_____	_____	_____																																									
	<u>0</u>	= Total Cover																																										
Herb Stratum (Plot size: <u>5 ft</u>)																																												
1. <i>Toxicodendron radicans</i>	30	Yes	FAC	Hydrophytic Vegetation Indicators: ____ 1- Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is >50% <input checked="" type="checkbox"/> 3 - Prevalence Index is ≤ 3.0 ¹ ____ 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) ____ Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic																																								
2. _____	_____	_____	_____																																									
3. _____	_____	_____	_____																																									
4. _____	_____	_____	_____																																									
5. _____	_____	_____	_____																																									
6. _____	_____	_____	_____																																									
7. _____	_____	_____	_____																																									
8. _____	_____	_____	_____																																									
9. _____	_____	_____	_____																																									
10. _____	_____	_____	_____																																									
11. _____	_____	_____	_____																																									
12. _____	_____	_____	_____																																									
	<u>30</u>	= Total Cover																																										
Woody Vine Stratum (Plot size: <u>30 ft</u>)																																												
1. _____	_____	_____	_____																																									
2. _____	_____	_____	_____																																									
3. _____	_____	_____	_____																																									
4. _____	_____	_____	_____																																									
	<u>0</u>	= Total Cover																																										
Remarks: (Include photo numbers here or on a separate sheet.)																																												

SOIL

Sampling Point: W-NWJ-27; PFO-1

[illegible]

Hydrology Photos



Vegetation Photos



Soil Photos



WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Trelina City/County: Geneva, Ontario Sampling Date: 2019-June-26
 Applicant/Owner: NextEra State: NY Sampling Point: W-NWJ-27; UPL-1
 Investigator(s): Nick DeJohn, Nate Jones Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): Agricultural Field Local relief (concave, convex, none): Flat Slope (%): 0-1
 Subregion (LRR or MLRA): LRR L Lat: 42.8704854712 Long: -76.979447218 Datum: WGS84
 Soil Map Unit Name: Cosad loamy fine sand NWI classification: _____
 Are climatic/hydrologic conditions on the site typical for this time of year? Yes ____ No ✓ (If no, explain in Remarks.)
 Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes ✓ No ____
 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?	Yes ____ No <u>✓</u>	
Hydric Soil Present?	Yes ____ No <u>✓</u>	Is the Sampled Area within a Wetland? Yes ____ No <u>✓</u>
Wetland Hydrology Present?	Yes ____ No <u>✓</u>	If yes, optional Wetland Site ID: _____
Remarks: (Explain alternative procedures here or in a separate report)		
TRC coverype is UPL. Recent rain		

HYDROLOGY

Wetland Hydrology Indicators:		
<u>Primary Indicators (minimum of one is required; check all that apply)</u>		<u>Secondary Indicators (minimum of two required)</u>
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)	<input type="checkbox"/> Moss Trim Lines (B16)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Stunted or Stressed Plants (D1)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<input type="checkbox"/> Microtopographic Relief (D4)
		<input type="checkbox"/> FAC-Neutral Test (D5)
Field Observations:		
Surface Water Present? Yes ____ No <u>✓</u>	Depth (inches): _____	Wetland Hydrology Present? Yes ____ No <u>✓</u>
Water Table Present? Yes ____ No <u>✓</u>	Depth (inches): _____	
Saturation Present? Yes ____ No <u>✓</u>	Depth (inches): _____	
(includes capillary fringe)		
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:		
Remarks:		

VEGETATION -- Use scientific names of plants.

Sampling Point: W-NWJ-27; UPL-1

Tree Stratum (Plot size: <u>30 ft</u>)	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
	0	= Total Cover		
Sapling/Shrub Stratum (Plot size: <u>15 ft</u>)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
	0	= Total Cover		
Herb Stratum (Plot size: <u>5 ft</u>)				
1. <i>Trifolium repens</i>	40	Yes	FACU	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
11. _____	_____	_____	_____	
12. _____	_____	_____	_____	
	40	= Total Cover		
Woody Vine Stratum (Plot size: <u>30 ft</u>)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
	0	= Total Cover		

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)

Total Number of Dominant Species Across All Strata: 1 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 0 (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply By:
OBL species 0	x 1 = 0
FACW species 0	x 2 = 0
FAC species 0	x 3 = 0
FACU species 40	x 4 = 160
UPL species 0	x 5 = 0
Column Totals 40	(A) 160 (B)

Prevalence Index = B/A = 4

Hydrophytic Vegetation Indicators:

____ 1- Rapid Test for Hydrophytic Vegetation

____ 2 - Dominance Test is > 50%

____ 3 - Prevalence Index is ≤ 3.0¹

____ 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)

____ Problematic Hydrophytic Vegetation¹ (Explain)

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 at 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 size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? Yes ____ No ✓

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: W-NWJ-27; UPL-1

[illegible]

Vegetation Photos



Soil Photos



WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Trelina City/County: Geneva, Ontario Sampling Date: 2019-June-26
 Applicant/Owner: NextEra State: NY Sampling Point: W-NWJ-28; PEM-1
 Investigator(s): Nick DeJohn, Nate Jones Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none): Concave Slope (%): 0-1
 Subregion (LRR or MLRA): LRR L Lat: 42.8704787917 Long: -76.9793704371 Datum: WGS84
 Soil Map Unit Name: Cosad loamy fine sand NWI classification: _____
 Are climatic/hydrologic conditions on the site typical for this time of year? Yes ____ No ✓ (If no, explain in Remarks.)
 Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes ✓ No ____
 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?	Yes <u>✓</u> No ____	Is the Sampled Area within a Wetland?	Yes <u>✓</u> No ____
Hydric Soil Present?	Yes <u>✓</u> No ____	Wetland Hydrology Present?	Yes <u>✓</u> No ____
Remarks: (Explain alternative procedures here or in a separate report)		If yes, optional Wetland Site ID: <u>W-NWJ-28</u>	
TRC coverype is PEM. Wetter than average year			

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u>				<u>Secondary Indicators (minimum of two required)</u>			
<input checked="" type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)		<input type="checkbox"/> Drainage Patterns (B10)			
<input checked="" type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Moss Trim Lines (B16)		<input type="checkbox"/> Dry-Season Water Table (C2)			
<input checked="" type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)	<input type="checkbox"/> Crayfish Burrows (C8)		<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)			
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Stunted or Stressed Plants (D1)		<input type="checkbox"/> Geomorphic Position (D2)			
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Shallow Aquitard (D3)		<input type="checkbox"/> Microtopographic Relief (D4)			
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Microtopographic Relief (D4)		<input checked="" type="checkbox"/> FAC-Neutral Test (D5)			
<input checked="" type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)						
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)						
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)						
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)							
Field Observations: Surface Water Present? Yes <u>✓</u> No ____ Depth (inches): <u>2</u> Water Table Present? Yes <u>✓</u> No ____ Depth (inches): <u>0</u> Saturation Present? Yes <u>✓</u> No ____ Depth (inches): <u>0</u> (includes capillary fringe)				Wetland Hydrology Present? Yes <u>✓</u> No ____			
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:							
Remarks:							

Sampling Point: W-NWJ-28; PEM-1

Tree Stratum (Plot size: 30 ft)			Absolute % Cover	Dominant Species?	Indicator Status
1.					
2.					
3.					
4.					
5.					
6.					
7.					
			0	= Total Cover	
Sapling/Shrub Stratum (Plot size: 15 ft)			Absolute % Cover	Dominant Species?	Indicator Status
1.					
2.					
3.					
4.					
5.					
6.					
7.					
			0	= Total Cover	
Herb Stratum (Plot size: 5 ft)			Absolute % Cover	Dominant Species?	Indicator Status
1.	<i>Ranunculus sceleratus</i>		40	Yes	OBL
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
			40	= Total Cover	
Woody Vine Stratum (Plot size: 30 ft)			Absolute % Cover	Dominant Species?	Indicator Status
1.					
2.					
3.					
4.					
			0	= Total Cover	

Remarks: (Include photo numbers here or on a separate sheet.)

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)

Total Number of Dominant Species Across All Strata: 1 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply By:
OBL species 40	x 1 = 40
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 40	(A) 40 (B)

Prevalence Index = B/A = 1

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 at 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 size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? Yes ☒ No ☐

SOIL

Sampling Point: W-NWJ-28; PEM-1

[illegible]

Hydrology Photos



Vegetation Photos



Soil Photos



WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Trelina City/County: Geneva, Ontario Sampling Date: 2019-June-26
 Applicant/Owner: NextEra State: NY Sampling Point: W-NWJ-28; PFO-1
 Investigator(s): Nick DeJohn, Nate Jones Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none): Concave Slope (%): 0-1
 Subregion (LRR or MLRA): LRR L Lat: 42.8705985379 Long: -76.9793548063 Datum: WGS84
 Soil Map Unit Name: Cosad loamy fine sand NWI classification: _____
 Are climatic/hydrologic conditions on the site typical for this time of year? Yes ____ No ☒ (If no, explain in Remarks.)
 Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes ☒ No ____
 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?	Yes <input checked="" type="checkbox"/> No ____	
Hydric Soil Present?	Yes <input checked="" type="checkbox"/> No ____	Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No ____
Wetland Hydrology Present?	Yes <input checked="" type="checkbox"/> No ____	If yes, optional Wetland Site ID: <u>W-NWJ-28</u>
Remarks: (Explain alternative procedures here or in a separate report) TRC coverype is PFO. Wetter than average year		

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u>			<u>Secondary Indicators (minimum of two required)</u>		
<input checked="" type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)			
<input checked="" type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)			
<input checked="" type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)	<input type="checkbox"/> Moss Trim Lines (B16)			
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Dry-Season Water Table (C2)			
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Crayfish Burrows (C8)			
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)			
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Stunted or Stressed Plants (D1)			
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Geomorphic Position (D2)			
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)			
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<input type="checkbox"/> Microtopographic Relief (D4)			
		<input type="checkbox"/> FAC-Neutral Test (D5)			
Field Observations: Surface Water Present? Yes <input checked="" type="checkbox"/> No ____ Depth (inches): <u>2</u> Water Table Present? Yes <input checked="" type="checkbox"/> No ____ Depth (inches): <u>0</u> Saturation Present? Yes <input checked="" type="checkbox"/> No ____ Depth (inches): <u>0</u> (includes capillary fringe)			Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No ____		
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:					
Remarks:					

VEGETATION -- Use scientific names of plants.

Sampling Point: W-NWJ-28; PFO-1

Tree Stratum (Plot size: <u>30 ft</u>)				Dominance Test worksheet:	
	Absolute % Cover	Dominant Species?	Indicator Status		
1. <i>Acer rubrum</i>	30	Yes	FAC	Number of Dominant Species That Are OBL, FACW, or FAC:	4 (A)
2. <i>Carya ovata</i>	20	Yes	FACU	Total Number of Dominant Species Across All Strata:	5 (B)
3. <i>Populus deltoides</i>	15	Yes	FAC	Percent of Dominant Species That Are OBL, FACW, or FAC:	80 (A/B)
4. _____	_____	_____	_____	Prevalence Index worksheet:	
5. _____	_____	_____	_____	Total % Cover of: Multiply By:	
6. _____	_____	_____	_____	OBL species	0 x 1 = 0
7. _____	_____	_____	_____	FACW species	0 x 2 = 0
	65	= Total Cover		FAC species	85 x 3 = 255
Sapling/Shrub Stratum (Plot size: <u>15 ft</u>)				FACU species	20 x 4 = 80
1. <i>Rhamnus cathartica</i>	15	Yes	FAC	UPL species	0 x 5 = 0
2. _____	_____	_____	_____	Column Totals	105 (A) 335 (B)
3. _____	_____	_____	_____	Prevalence Index = B/A = <u>3.2</u>	
4. _____	_____	_____	_____	Hydrophytic Vegetation Indicators:	
5. _____	_____	_____	_____	____ 1- Rapid Test for Hydrophytic Vegetation	
6. _____	_____	_____	_____	<input checked="" type="checkbox"/> 2 - Dominance Test is >50%	
7. _____	_____	_____	_____	____ 3 - Prevalence Index is ≤ 3.0 ¹	
	15	= Total Cover		____ 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)	
Herb Stratum (Plot size: <u>5 ft</u>)				____ Problematic Hydrophytic Vegetation ¹ (Explain)	
1. <i>Toxicodendron radicans</i>	25	Yes	FAC	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic	
2. _____	_____	_____	_____	Definitions of Vegetation Strata:	
3. _____	_____	_____	_____	Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.	
4. _____	_____	_____	_____	Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.	
5. _____	_____	_____	_____	Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.	
6. _____	_____	_____	_____	Woody vines – All woody vines greater than 3.28 ft in height.	
7. _____	_____	_____	_____	Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No _____	
8. _____	_____	_____	_____		
9. _____	_____	_____	_____		
10. _____	_____	_____	_____		
11. _____	_____	_____	_____		
12. _____	_____	_____	_____		
	25	= Total Cover			
Woody Vine Stratum (Plot size: <u>30 ft</u>)					
1. _____	_____	_____	_____		
2. _____	_____	_____	_____		
3. _____	_____	_____	_____		
4. _____	_____	_____	_____		
	0	= Total Cover			
Remarks: (Include photo numbers here or on a separate sheet.)					

SOIL

Sampling Point: W-NWJ-28; PFO-1

[illegible]

Hydrology Photos



Vegetation Photos



Soil Photos



WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Trelina City/County: Geneva, Ontario Sampling Date: 2019-June-26
 Applicant/Owner: NextEra State: NY Sampling Point: W-NWJ-28; UPL-1
 Investigator(s): Nick DeJohn, Nate Jones Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): Agricultural Field Local relief (concave, convex, none): Flat Slope (%): 0-1
 Subregion (LRR or MLRA): LRR L Lat: 42.8704269344 Long: -76.9792843942 Datum: WGS84
 Soil Map Unit Name: Claverack loamy fine sand, 0 to 2 percent slopes NWI classification: _____
 Are climatic/hydrologic conditions on the site typical for this time of year? Yes ____ No ✓ (If no, explain in Remarks.)
 Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes ✓ No ____
 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?	Yes ____ No <u>✓</u>	
Hydric Soil Present?	Yes ____ No <u>✓</u>	Is the Sampled Area within a Wetland? Yes ____ No <u>✓</u>
Wetland Hydrology Present?	Yes ____ No <u>✓</u>	If yes, optional Wetland Site ID: _____
Remarks: (Explain alternative procedures here or in a separate report) TRC coverype is UPL. Recent rain		

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u>			<u>Secondary Indicators (minimum of two required)</u>		
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)			
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)			
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)	<input type="checkbox"/> Moss Trim Lines (B16)			
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Dry-Season Water Table (C2)			
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Crayfish Burrows (C8)			
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)			
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Stunted or Stressed Plants (D1)			
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Geomorphic Position (D2)			
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)			
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<input type="checkbox"/> Microtopographic Relief (D4)			
		<input type="checkbox"/> FAC-Neutral Test (D5)			
Field Observations: Surface Water Present? Yes ____ No <u>✓</u> Depth (inches): _____ Water Table Present? Yes ____ No <u>✓</u> Depth (inches): _____ Saturation Present? Yes ____ No <u>✓</u> Depth (inches): _____ (includes capillary fringe)			Wetland Hydrology Present? Yes ____ No <u>✓</u>		
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: 					
Remarks:					

VEGETATION -- Use scientific names of plants.

Sampling Point: W-NWJ-28; UPL-1

Tree Stratum (Plot size: <u>30 ft</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:				
1. _____	_____	_____	_____	Number of Dominant Species That Are OBL, FACW, or FAC:	<u>0</u>	(A)		
2. _____	_____	_____	_____	Total Number of Dominant Species Across All Strata:	<u>1</u>	(B)		
3. _____	_____	_____	_____	Percent of Dominant Species That Are OBL, FACW, or FAC:	<u>0</u>	(A/B)		
4. _____	_____	_____	_____	Prevalence Index worksheet:				
5. _____	_____	_____	_____	Total % Cover of:		Multiply By:		
6. _____	_____	_____	_____	OBL species	<u>0</u>	x 1 =	<u>0</u>	
7. _____	_____	_____	_____	FACW species	<u>0</u>	x 2 =	<u>0</u>	
	<u>0</u>	= Total Cover			FAC species	<u>0</u>	x 3 =	<u>0</u>
Sapling/Shrub Stratum (Plot size: <u>15 ft</u>)	_____	_____	_____	FACU species	<u>45</u>	x 4 =	<u>180</u>	
1. _____	_____	_____	_____	UPL species	<u>0</u>	x 5 =	<u>0</u>	
2. _____	_____	_____	_____	Column Totals	<u>45</u>	(A)	<u>180</u> (B)	
3. _____	_____	_____	_____	Prevalence Index = B/A = <u>4</u>				
4. _____	_____	_____	_____	Hydrophytic Vegetation Indicators:				
5. _____	_____	_____	_____	____ 1- Rapid Test for Hydrophytic Vegetation				
6. _____	_____	_____	_____	____ 2 - Dominance Test is > 50%				
7. _____	_____	_____	_____	____ 3 - Prevalence Index is ≤ 3.0 ¹				
	<u>0</u>	= Total Cover			____ 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)			
Herb Stratum (Plot size: <u>5 ft</u>)	_____	_____	_____	____ Problematic Hydrophytic Vegetation ¹ (Explain)				
1. <i>Trifolium repens</i>	<u>45</u>	Yes	FACU	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic				
2. _____	_____	_____	_____	Definitions of Vegetation Strata:				
3. _____	_____	_____	_____	Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.				
4. _____	_____	_____	_____	Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.				
5. _____	_____	_____	_____	Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.				
6. _____	_____	_____	_____	Woody vines – All woody vines greater than 3.28 ft in height.				
7. _____	_____	_____	_____	Hydrophytic Vegetation Present? Yes ____ No <u>✓</u>				
8. _____	_____	_____	_____					
9. _____	_____	_____	_____					
10. _____	_____	_____	_____					
11. _____	_____	_____	_____					
12. _____	_____	_____	_____					
	<u>45</u>	= Total Cover						
Woody Vine Stratum (Plot size: <u>30 ft</u>)	_____	_____	_____					
1. _____	_____	_____	_____					
2. _____	_____	_____	_____					
3. _____	_____	_____	_____					
4. _____	_____	_____	_____					
	<u>0</u>	= Total Cover						
Remarks: (Include photo numbers here or on a separate sheet.)								

SOIL

Sampling Point: W-NWJ-28; UPL-1

[illegible]

Vegetation Photos



Soil Photos



WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Trelina City/County: Geneva, Ontario Sampling Date: 2019-June-27
 Applicant/Owner: NextEra State: NY Sampling Point: W-NWJ-29; PEM-1
 Investigator(s): Nick DeJohn, Nate Jones Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none): Concave Slope (%): 0-1
 Subregion (LRR or MLRA): LRR L Lat: 42.8701918899 Long: -76.9792883378 Datum: WGS84
 Soil Map Unit Name: Cosad loamy fine sand NWI classification: _____
 Are climatic/hydrologic conditions on the site typical for this time of year? Yes ____ No ☒ (If no, explain in Remarks.)
 Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes ☒ No ____
 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?	Yes <input checked="" type="checkbox"/> No ____	
Hydric Soil Present?	Yes <input checked="" type="checkbox"/> No ____	Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No ____
Wetland Hydrology Present?	Yes <input checked="" type="checkbox"/> No ____	If yes, optional Wetland Site ID: <u>W-NWJ-29</u>
Remarks: (Explain alternative procedures here or in a separate report) TRC coverype is PEM. Wetter than average year		

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u>				<u>Secondary Indicators (minimum of two required)</u>	
<input checked="" type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)			
<input checked="" type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)			
<input checked="" type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)	<input type="checkbox"/> Moss Trim Lines (B16)			
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Dry-Season Water Table (C2)			
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Crayfish Burrows (C8)			
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)			
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Stunted or Stressed Plants (D1)			
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Geomorphic Position (D2)			
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)			
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<input type="checkbox"/> Microtopographic Relief (D4)			
		<input checked="" type="checkbox"/> FAC-Neutral Test (D5)			
Field Observations:					
Surface Water Present?	Yes <input checked="" type="checkbox"/> No ____	Depth (inches):	<u>1</u>	Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No ____	
Water Table Present?	Yes <input checked="" type="checkbox"/> No ____	Depth (inches):	<u>0</u>		
Saturation Present?	Yes <input checked="" type="checkbox"/> No ____	Depth (inches):	<u>0</u>		
(includes capillary fringe)					
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:					
Remarks:					

VEGETATION -- Use scientific names of plants.

Sampling Point: W-NWJ-29; PEM-1

Tree Stratum (Plot size: <u>30 ft</u>)	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
	0	= Total Cover		
Sapling/Shrub Stratum (Plot size: <u>15 ft</u>)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
	0	= Total Cover		
Herb Stratum (Plot size: <u>5 ft</u>)				
1. <i>Eleocharis palustris</i>	40	Yes	OBL	
2. <i>Alisma triviale</i>	20	Yes	OBL	
3. <i>Typha latifolia</i>	7	No	OBL	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
11. _____	_____	_____	_____	
12. _____	_____	_____	_____	
	67	= Total Cover		
Woody Vine Stratum (Plot size: <u>30 ft</u>)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
	0	= Total Cover		

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)

Total Number of Dominant Species Across All Strata: 2 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply By:
OBL species	67 x 1 = 67
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	67 (A) 67 (B)
Prevalence Index = B/A = 1	

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 at 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 size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? Yes ☒ No ____

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: W-NWJ-29; PEM-1

[illegible]

Hydrology Photos



Vegetation Photos



Soil Photos



WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Trelina City/County: Geneva, Ontario Sampling Date: 2019-June-27
 Applicant/Owner: NextEra State: NY Sampling Point: W-NWJ-29; PFO-1
 Investigator(s): Nick DeJohn, Nate Jones Section, Township, Range:
 Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none): Concave Slope (%): 0-1
 Subregion (LRR or MLRA): LRR L Lat: 42.8700912715 Long: -76.9793715759 Datum: WGS84
 Soil Map Unit Name: Cosad loamy fine sand NWI classification:
 Are climatic/hydrologic conditions on the site typical for this time of year? Yes ___ No ☒ (If no, explain in Remarks.)
 Are Vegetation __, Soil __, or Hydrology __ significantly disturbed? Are "Normal Circumstances" present? Yes ☒ No ___
 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?	Yes <input checked="" type="checkbox"/> No ___	Is the Sampled Area within a Wetland?	Yes <input checked="" type="checkbox"/> No ___
Hydric Soil Present?	Yes <input checked="" type="checkbox"/> No ___	If yes, optional Wetland Site ID:	W-NWJ-29
Wetland Hydrology Present?	Yes <input checked="" type="checkbox"/> No ___		
Remarks: (Explain alternative procedures here or in a separate report)			
TRC coverype is PFO. Wetter than average year			

HYDROLOGY

Wetland Hydrology Indicators:			
Primary Indicators (minimum of one is required; check all that apply)		Secondary Indicators (minimum of two required)	
<input checked="" type="checkbox"/> Surface Water (A1)	<input checked="" type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)	
<input checked="" type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)	
<input checked="" type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)	<input type="checkbox"/> Moss Trim Lines (B16)	
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Dry-Season Water Table (C2)	
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Crayfish Burrows (C8)	
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)	
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Stunted or Stressed Plants (D1)	
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Geomorphic Position (D2)	
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)	
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<input type="checkbox"/> Microtopographic Relief (D4)	
		<input checked="" type="checkbox"/> FAC-Neutral Test (D5)	
Field Observations:			
Surface Water Present?	Yes <input checked="" type="checkbox"/> No ___	Depth (inches):	1
Water Table Present?	Yes <input checked="" type="checkbox"/> No ___	Depth (inches):	0
Saturation Present?	Yes <input checked="" type="checkbox"/> No ___	Depth (inches):	0
(includes capillary fringe)		Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No ___	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:			
Remarks:			

VEGETATION -- Use scientific names of plants.

Sampling Point: W-NWJ-29; PFO-1

Tree Stratum (Plot size: <u>30 ft</u>)				Dominance Test worksheet:	
	Absolute % Cover	Dominant Species?	Indicator Status		
1. <i>Fraxinus pennsylvanica</i>	45	Yes	FACW	Number of Dominant Species That Are OBL, FACW, or FAC:	3 (A)
2. <i>Acer rubrum</i>	30	Yes	FAC	Total Number of Dominant Species Across All Strata:	3 (B)
3. _____	_____	_____	_____	Percent of Dominant Species That Are OBL, FACW, or FAC:	100 (A/B)
4. _____	_____	_____	_____	Prevalence Index worksheet:	
5. _____	_____	_____	_____	Total % Cover of:	Multiply By:
6. _____	_____	_____	_____	OBL species	0 x 1 = 0
7. _____	_____	_____	_____	FACW species	90 x 2 = 180
	75	= Total Cover		FAC species	40 x 3 = 120
Sapling/Shrub Stratum (Plot size: <u>15 ft</u>)				FACU species	0 x 4 = 0
1. _____	_____	_____	_____	UPL species	0 x 5 = 0
2. _____	_____	_____	_____	Column Totals	130 (A) 300 (B)
3. _____	_____	_____	_____	Prevalence Index = B/A = <u>2.3</u>	
4. _____	_____	_____	_____	Hydrophytic Vegetation Indicators:	
5. _____	_____	_____	_____	____ 1- Rapid Test for Hydrophytic Vegetation	
6. _____	_____	_____	_____	<input checked="" type="checkbox"/> 2 - Dominance Test is >50%	
7. _____	_____	_____	_____	<input checked="" type="checkbox"/> 3 - Prevalence Index is ≤ 3.0 ¹	
	0	= Total Cover		____ 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)	
Herb Stratum (Plot size: <u>5 ft</u>)				____ Problematic Hydrophytic Vegetation ¹ (Explain)	
1. <i>Onoclea sensibilis</i>	45	Yes	FACW	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic	
2. <i>Toxicodendron radicans</i>	10	No	FAC	Definitions of Vegetation Strata:	
3. _____	_____	_____	_____	Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.	
4. _____	_____	_____	_____	Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.	
5. _____	_____	_____	_____	Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.	
6. _____	_____	_____	_____	Woody vines – All woody vines greater than 3.28 ft in height.	
7. _____	_____	_____	_____	Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No _____	
8. _____	_____	_____	_____		
9. _____	_____	_____	_____		
10. _____	_____	_____	_____		
11. _____	_____	_____	_____		
12. _____	_____	_____	_____		
	55	= Total Cover			
Woody Vine Stratum (Plot size: <u>30 ft</u>)					
1. _____	_____	_____	_____		
2. _____	_____	_____	_____		
3. _____	_____	_____	_____		
4. _____	_____	_____	_____		
	0	= Total Cover			
Remarks: (Include photo numbers here or on a separate sheet.)					

SOIL

Sampling Point: W-NWJ-29; PFO-1

[illegible]

Hydrology Photos



Vegetation Photos



Soil Photos



WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Trelina City/County: Geneva, Ontario Sampling Date: 2019-June-27
 Applicant/Owner: NextEra State: NY Sampling Point: W-NWJ-29; UPL-1
 Investigator(s): Nick DeJohn, Nate Jones Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): Agricultural Field Local relief (concave, convex, none): Flat Slope (%): 0-1
 Subregion (LRR or MLRA): LRR L Lat: 42.8702055943 Long: -76.9793117233 Datum: WGS84
 Soil Map Unit Name: Cosad loamy fine sand NWI classification: _____
 Are climatic/hydrologic conditions on the site typical for this time of year? Yes ____ No ✓ (If no, explain in Remarks.)
 Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes ✓ No ____
 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?	Yes ____ No <u>✓</u>	
Hydric Soil Present?	Yes ____ No <u>✓</u>	Is the Sampled Area within a Wetland? Yes ____ No <u>✓</u>
Wetland Hydrology Present?	Yes ____ No <u>✓</u>	If yes, optional Wetland Site ID: _____
Remarks: (Explain alternative procedures here or in a separate report) TRC coverytype is UPL. Area is upland, not all three wetland parameters are present. Circumstances are not normal due to agricultural activities, Wetter than average year		

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u>			<u>Secondary Indicators (minimum of two required)</u>		
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)			
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)			
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)	<input type="checkbox"/> Moss Trim Lines (B16)			
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Dry-Season Water Table (C2)			
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Crayfish Burrows (C8)			
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)			
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Stunted or Stressed Plants (D1)			
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Geomorphic Position (D2)			
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)			
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<input type="checkbox"/> Microtopographic Relief (D4)			
		<input type="checkbox"/> FAC-Neutral Test (D5)			
Field Observations: Surface Water Present? Yes ____ No <u>✓</u> Depth (inches): _____ Water Table Present? Yes ____ No <u>✓</u> Depth (inches): _____ Saturation Present? Yes ____ No <u>✓</u> Depth (inches): _____ (includes capillary fringe)			Wetland Hydrology Present? Yes ____ No <u>✓</u>		
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: 					
Remarks:					

VEGETATION -- Use scientific names of plants.

Sampling Point: W-NWJ-29; UPL-1

Tree Stratum (Plot size: <u>30 ft</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:				
1. _____	_____	_____	_____	Number of Dominant Species That Are OBL, FACW, or FAC:	1	(A)		
2. _____	_____	_____	_____	Total Number of Dominant Species Across All Strata:	2	(B)		
3. _____	_____	_____	_____	Percent of Dominant Species That Are OBL, FACW, or FAC:	50	(A/B)		
4. _____	_____	_____	_____	Prevalence Index worksheet:				
5. _____	_____	_____	_____	Total % Cover of:		Multiply By:		
6. _____	_____	_____	_____	OBL species	0	x 1 =	0	
7. _____	_____	_____	_____	FACW species	0	x 2 =	0	
	0	= Total Cover			FAC species	20	x 3 =	60
Sapling/Shrub Stratum (Plot size: <u>15 ft</u>)	_____	_____	_____	FACU species	20	x 4 =	80	
1. _____	_____	_____	_____	UPL species	0	x 5 =	0	
2. _____	_____	_____	_____	Column Totals	40	(A)	140 (B)	
3. _____	_____	_____	_____	Prevalence Index = B/A = <u>3.5</u>				
4. _____	_____	_____	_____	Hydrophytic Vegetation Indicators:				
5. _____	_____	_____	_____	____ 1- Rapid Test for Hydrophytic Vegetation				
6. _____	_____	_____	_____	____ 2 - Dominance Test is > 50%				
7. _____	_____	_____	_____	____ 3 - Prevalence Index is ≤ 3.0 ¹				
	0	= Total Cover			____ 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)			
Herb Stratum (Plot size: <u>5 ft</u>)	_____	_____	_____	____ Problematic Hydrophytic Vegetation ¹ (Explain)				
1. <i>Trifolium repens</i>	20	Yes	FACU	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic				
2. <i>Juncus tenuis</i>	20	Yes	FAC					
3. _____	_____	_____	_____	Definitions of Vegetation Strata:				
4. _____	_____	_____	_____	Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.				
5. _____	_____	_____	_____	Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.				
6. _____	_____	_____	_____	Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.				
7. _____	_____	_____	_____	Woody vines – All woody vines greater than 3.28 ft in height.				
8. _____	_____	_____	_____	Hydrophytic Vegetation Present? Yes ____ No <u>✓</u>				
9. _____	_____	_____	_____					
10. _____	_____	_____	_____					
11. _____	_____	_____	_____					
12. _____	_____	_____	_____					
	40	= Total Cover						
Woody Vine Stratum (Plot size: <u>30 ft</u>)	_____	_____	_____					
1. _____	_____	_____	_____					
2. _____	_____	_____	_____					
3. _____	_____	_____	_____					
4. _____	_____	_____	_____					
	0	= Total Cover						
Remarks: (Include photo numbers here or on a separate sheet.)								

SOIL

Sampling Point: W-NWJ-29; UPL-1

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0 - 10	10YR 4/2	100					Silt Loam	

Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains.

Location: PL = Pore Lining, M = Matrix.

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 149B)

☐ Polyvalue Below Surface (S8) (LRR R, MLRA 149B)

☐ Thin Dark Surface (S9) (LRR R, MLRA 149B)

☐ Loamy Mucky Mineral (F1) (LRR K, L)

☐ Loamy Gleyed Matrix (F2)

☐ Depleted Matrix (F3)

☐ Redox Dark Surface (F6)

☐ Depleted Dark Surface (F7)

☐ Redox Depressions (F8)

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)

☐ Red Parent Material (F21)

☐ Very Shallow Dark Surface (TF12)

☐ Other (Explain in Remarks)

Restrictive Layer (if observed):

Type:

Compaction

Depth (inches):

10

Hydric Soil Present?

Yes ____ No ☒

Remarks:

Soil Photos



WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Trelina City/County: Geneva, Ontario Sampling Date: 2019-June-27
 Applicant/Owner: NextEra State: NY Sampling Point: W-NWJ-30; PEM-1
 Investigator(s): Nick DeJohn, Nate Jones Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none): Concave Slope (%): 0-1
 Subregion (LRR or MLRA): LRR R Lat: 42.8707218357 Long: -76.9794866537 Datum: WGS84
 Soil Map Unit Name: Claverack loamy fine sand, 0 to 2 percent slopes NWI classification: _____
 Are climatic/hydrologic conditions on the site typical for this time of year? Yes ____ No ✓ (If no, explain in Remarks.)
 Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes ✓ No ____
 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?	Yes <u>✓</u> No ____	
Hydric Soil Present?	Yes <u>✓</u> No ____	Is the Sampled Area within a Wetland? Yes <u>✓</u> No ____
Wetland Hydrology Present?	Yes <u>✓</u> No ____	If yes, optional Wetland Site ID: <u>W-NWJ-30</u>
Remarks: (Explain alternative procedures here or in a separate report)		
<p>TRC coverype is PEM. Wetter than average year</p>		

HYDROLOGY

Wetland Hydrology Indicators:			
<u>Primary Indicators (minimum of one is required; check all that apply)</u>		<u>Secondary Indicators (minimum of two required)</u>	
<input checked="" type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)	
<input checked="" type="checkbox"/> High Water Table (A2)	<input checked="" type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)	
<input checked="" type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)	<input type="checkbox"/> Moss Trim Lines (B16)	
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Dry-Season Water Table (C2)	
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Crayfish Burrows (C8)	
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)	
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Stunted or Stressed Plants (D1)	
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Geomorphic Position (D2)	
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)	
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<input type="checkbox"/> Microtopographic Relief (D4)	
		<input checked="" type="checkbox"/> FAC-Neutral Test (D5)	
Field Observations:			
Surface Water Present?	Yes <u>✓</u> No ____	Depth (inches): <u>2</u>	Wetland Hydrology Present? Yes <u>✓</u> No ____
Water Table Present?	Yes <u>✓</u> No ____	Depth (inches): <u>0</u>	
Saturation Present?	Yes <u>✓</u> No ____	Depth (inches): <u>0</u>	
(includes capillary fringe)			
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:			
Remarks:			

Sampling Point: W-NWJ-30; PEM-1

Northcentral and Northeast Region -- Version 2.0 Adapted by TRC

SOIL

Sampling Point: W-NWJ-30; PEM-1

[illegible]

Hydrology Photos



Vegetation Photos



Soil Photos



WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Trelina City/County: Geneva, Ontario Sampling Date: 2019-June-27
 Applicant/Owner: NextEra State: NY Sampling Point: W-NWJ-30; UPL-1
 Investigator(s): Nick DeJohn, Nate Jones Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): Agricultural Field Local relief (concave, convex, none): Flat Slope (%): 0-1
 Subregion (LRR or MLRA): LRR L Lat: 42.8706907807 Long: -76.9794288185 Datum: WGS84
 Soil Map Unit Name: Claverack loamy fine sand, 0 to 2 percent slopes NWI classification: _____
 Are climatic/hydrologic conditions on the site typical for this time of year? Yes ____ No ✓ (If no, explain in Remarks.)
 Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes ✓ No ____
 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?	Yes ____ No <u>✓</u>	
Hydric Soil Present?	Yes ____ No <u>✓</u>	Is the Sampled Area within a Wetland? Yes ____ No <u>✓</u>
Wetland Hydrology Present?	Yes ____ No <u>✓</u>	If yes, optional Wetland Site ID: _____
Remarks: (Explain alternative procedures here or in a separate report) TRC coverype is UPL. Recent rain		

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u>			<u>Secondary Indicators (minimum of two required)</u>		
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)			
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)			
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)	<input type="checkbox"/> Moss Trim Lines (B16)			
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Dry-Season Water Table (C2)			
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Crayfish Burrows (C8)			
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)			
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Stunted or Stressed Plants (D1)			
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Geomorphic Position (D2)			
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)			
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<input type="checkbox"/> Microtopographic Relief (D4)			
		<input type="checkbox"/> FAC-Neutral Test (D5)			
Field Observations: Surface Water Present? Yes ____ No <u>✓</u> Depth (inches): _____ Water Table Present? Yes ____ No <u>✓</u> Depth (inches): _____ Saturation Present? Yes ____ No <u>✓</u> Depth (inches): _____ (includes capillary fringe)			Wetland Hydrology Present? Yes ____ No <u>✓</u>		
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: 					
Remarks:					

VEGETATION -- Use scientific names of plants.

Sampling Point: W-NWJ-30; UPL-1

Tree Stratum (Plot size: <u>30 ft</u>)	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
	0	= Total Cover		
Sapling/Shrub Stratum (Plot size: <u>15 ft</u>)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
	0	= Total Cover		
Herb Stratum (Plot size: <u>5 ft</u>)				
1. <i>Trifolium repens</i>	30	Yes	FACU	
2. <i>Ambrosia artemisiifolia</i>	15	Yes	FACU	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
11. _____	_____	_____	_____	
12. _____	_____	_____	_____	
	45	= Total Cover		
Woody Vine Stratum (Plot size: <u>30 ft</u>)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
	0	= Total Cover		

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)

Total Number of Dominant Species Across All Strata: 2 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 0 (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply By:
OBL species 0	x 1 = 0
FACW species 0	x 2 = 0
FAC species 0	x 3 = 0
FACU species 45	x 4 = 180
UPL species 0	x 5 = 0
Column Totals 45	(A) 180 (B)

Prevalence Index = B/A = 4

Hydrophytic Vegetation Indicators:

____ 1- Rapid Test for Hydrophytic Vegetation

____ 2 - Dominance Test is > 50%

____ 3 - Prevalence Index is ≤ 3.0¹

____ 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)

____ Problematic Hydrophytic Vegetation¹ (Explain)

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 at 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 size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? Yes ____ No ✓

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: W-NWJ-30; UPL-1

[illegible]

Hydrology Photos



Vegetation Photos



WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Trelina City/County: Geneva, Ontario Sampling Date: 2019-June-27
 Applicant/Owner: NextEra State: NY Sampling Point: W-NWJ-31; PEM-1
 Investigator(s): Nick DeJohn, Nate Jones Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none): Concave Slope (%): 0-1
 Subregion (LRR or MLRA): LRR L Lat: 42.8707510885 Long: -76.9791335241 Datum: WGS84
 Soil Map Unit Name: Collamer silt loam, 0 to 2 percent slopes NWI classification: _____
 Are climatic/hydrologic conditions on the site typical for this time of year? Yes ____ No ✓ (If no, explain in Remarks.)
 Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes ✓ No ____
 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?	Yes <u>✓</u> No ____	
Hydric Soil Present?	Yes <u>✓</u> No ____	Is the Sampled Area within a Wetland? Yes <u>✓</u> No ____
Wetland Hydrology Present?	Yes <u>✓</u> No ____	If yes, optional Wetland Site ID: <u>W-NWJ-31</u>
Remarks: (Explain alternative procedures here or in a separate report) TRC coverype is PEM. Wetter than average year		

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u>				<u>Secondary Indicators (minimum of two required)</u>	
<input checked="" type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)			
<input checked="" type="checkbox"/> High Water Table (A2)	<input checked="" type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)			
<input checked="" type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)	<input type="checkbox"/> Moss Trim Lines (B16)			
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Dry-Season Water Table (C2)			
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Crayfish Burrows (C8)			
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)			
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Stunted or Stressed Plants (D1)			
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Geomorphic Position (D2)			
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)			
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<input type="checkbox"/> Microtopographic Relief (D4)			
		<input checked="" type="checkbox"/> FAC-Neutral Test (D5)			
Field Observations:					
Surface Water Present?	Yes <u>✓</u> No ____	Depth (inches):	<u>3</u>	Wetland Hydrology Present? Yes <u>✓</u> No ____	
Water Table Present?	Yes <u>✓</u> No ____	Depth (inches):	<u>0</u>		
Saturation Present?	Yes <u>✓</u> No ____	Depth (inches):	<u>0</u>		
(includes capillary fringe)					
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:					
Remarks:					

Sampling Point: W-NWJ-31; PEM-1

Northcentral and Northeast Region -- Version 2.0 Adapted by TRC

SOIL

Sampling Point: W-NWJ-31; PEM-1

[illegible]

Hydrology Photos



Vegetation Photos



WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Trelina City/County: Geneva, Ontario Sampling Date: 2019-June-27
 Applicant/Owner: NextEra State: NY Sampling Point: W-NWJ-31; PFO-1
 Investigator(s): Nick DeJohn, Nate Jones Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none): Concave Slope (%): 0-1
 Subregion (LRR or MLRA): LRR L Lat: 42.8706427105 Long: -76.9796874841 Datum: WGS84
 Soil Map Unit Name: Niagara silt loam NWI classification: _____
 Are climatic/hydrologic conditions on the site typical for this time of year? Yes ____ No ☒ (If no, explain in Remarks.)
 Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes ☒ No ____
 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?	Yes <input checked="" type="checkbox"/> No ____	
Hydric Soil Present?	Yes <input checked="" type="checkbox"/> No ____	Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No ____
Wetland Hydrology Present?	Yes <input checked="" type="checkbox"/> No ____	If yes, optional Wetland Site ID: <u>W-NWJ-31</u>
Remarks: (Explain alternative procedures here or in a separate report) TRC coverype is PFO. Wetter than average year		

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u>			<u>Secondary Indicators (minimum of two required)</u>		
<input checked="" type="checkbox"/> Surface Water (A1)	<input checked="" type="checkbox"/> Water-Stained Leaves (B9)		<input type="checkbox"/> Surface Soil Cracks (B6)		
<input checked="" type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)		<input type="checkbox"/> Drainage Patterns (B10)		
<input checked="" type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)		<input type="checkbox"/> Moss Trim Lines (B16)		
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)		<input type="checkbox"/> Dry-Season Water Table (C2)		
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)		<input type="checkbox"/> Crayfish Burrows (C8)		
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)		<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)		
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)		<input type="checkbox"/> Stunted or Stressed Plants (D1)		
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)		<input type="checkbox"/> Geomorphic Position (D2)		
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)		<input type="checkbox"/> Shallow Aquitard (D3)		
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)			<input type="checkbox"/> Microtopographic Relief (D4)		
			<input checked="" type="checkbox"/> FAC-Neutral Test (D5)		
Field Observations: Surface Water Present? Yes <input checked="" type="checkbox"/> No ____ Depth (inches): <u>1</u> Water Table Present? Yes <input checked="" type="checkbox"/> No ____ Depth (inches): <u>0</u> Saturation Present? Yes <input checked="" type="checkbox"/> No ____ Depth (inches): <u>0</u> (includes capillary fringe)			Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No ____		
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:					
Remarks:					

VEGETATION -- Use scientific names of plants.

Sampling Point: W-NWJ-31; PFO-1

Tree Stratum (Plot size: <u>30 ft</u>)	Absolute % Cover	Dominant Species?	Indicator Status																																									
1. <i>Fraxinus pennsylvanica</i>	50	Yes	FACW	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>4</u> (A) Total Number of Dominant Species Across All Strata: <u>5</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>80</u> (A/B)																																								
2. <i>Fagus grandifolia</i>	15	Yes	FACU																																									
3. _____	_____	_____	_____																																									
4. _____	_____	_____	_____																																									
5. _____	_____	_____	_____																																									
6. _____	_____	_____	_____																																									
7. _____	_____	_____	_____																																									
	65	= Total Cover		Prevalence Index worksheet: <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 40%; text-align: left;">Total % Cover of:</th> <th style="width: 10%;"></th> <th style="width: 10%;">Multiply By:</th> <th style="width: 10%;"></th> <th style="width: 10%;"></th> </tr> </thead> <tbody> <tr> <td>OBL species</td> <td>0</td> <td>x 1 =</td> <td>0</td> <td></td> </tr> <tr> <td>FACW species</td> <td>85</td> <td>x 2 =</td> <td>170</td> <td></td> </tr> <tr> <td>FAC species</td> <td>15</td> <td>x 3 =</td> <td>45</td> <td></td> </tr> <tr> <td>FACU species</td> <td>15</td> <td>x 4 =</td> <td>60</td> <td></td> </tr> <tr> <td>UPL species</td> <td>0</td> <td>x 5 =</td> <td>0</td> <td></td> </tr> <tr> <td>Column Totals</td> <td>115</td> <td>(A)</td> <td>275</td> <td>(B)</td> </tr> <tr> <td colspan="4">Prevalence Index = B/A =</td> <td><u>2.4</u></td> </tr> </tbody> </table>	Total % Cover of:		Multiply By:			OBL species	0	x 1 =	0		FACW species	85	x 2 =	170		FAC species	15	x 3 =	45		FACU species	15	x 4 =	60		UPL species	0	x 5 =	0		Column Totals	115	(A)	275	(B)	Prevalence Index = B/A =				<u>2.4</u>
Total % Cover of:		Multiply By:																																										
OBL species	0	x 1 =	0																																									
FACW species	85	x 2 =	170																																									
FAC species	15	x 3 =	45																																									
FACU species	15	x 4 =	60																																									
UPL species	0	x 5 =	0																																									
Column Totals	115	(A)	275	(B)																																								
Prevalence Index = B/A =				<u>2.4</u>																																								
Sapling/Shrub Stratum (Plot size: <u>15 ft</u>)																																												
1. _____	_____	_____	_____																																									
2. _____	_____	_____	_____																																									
3. _____	_____	_____	_____																																									
4. _____	_____	_____	_____																																									
5. _____	_____	_____	_____																																									
6. _____	_____	_____	_____																																									
7. _____	_____	_____	_____																																									
	0	= Total Cover																																										
Herb Stratum (Plot size: <u>5 ft</u>)																																												
1. <i>Fraxinus pennsylvanica</i>	25	Yes	FACW	Hydrophytic Vegetation Indicators: ____ 1- Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is >50% <input checked="" type="checkbox"/> 3 - Prevalence Index is ≤ 3.0 ¹ ____ 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) ____ Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic																																								
2. <i>Toxicodendron radicans</i>	15	Yes	FAC																																									
3. <i>Dryopteris carthusiana</i>	10	Yes	FACW																																									
4. _____	_____	_____	_____																																									
5. _____	_____	_____	_____																																									
6. _____	_____	_____	_____																																									
7. _____	_____	_____	_____																																									
8. _____	_____	_____	_____																																									
9. _____	_____	_____	_____																																									
10. _____	_____	_____	_____																																									
11. _____	_____	_____	_____																																									
12. _____	_____	_____	_____																																									
	50	= Total Cover																																										
Woody Vine Stratum (Plot size: <u>30 ft</u>)																																												
1. _____	_____	_____	_____																																									
2. _____	_____	_____	_____																																									
3. _____	_____	_____	_____																																									
4. _____	_____	_____	_____																																									
	0	= Total Cover																																										
Remarks: (Include photo numbers here or on a separate sheet.)																																												

SOIL

Sampling Point: W-NWJ-31; PFO-1

[illegible]

Hydrology Photos



Vegetation Photos



Soil Photos



WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Trelina City/County: Geneva, Ontario Sampling Date: 2019-June-27
 Applicant/Owner: NextEra State: NY Sampling Point: W-NWJ-31; UPL-1
 Investigator(s): Nick DeJohn, Nate Jones Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): Agricultural Field Local relief (concave, convex, none): Flat Slope (%): 0-1
 Subregion (LRR or MLRA): LRR L Lat: 42.8705090245 Long: -76.9793023843 Datum: WGS84
 Soil Map Unit Name: Collamer silt loam, 0 to 2 percent slopes NWI classification: _____
 Are climatic/hydrologic conditions on the site typical for this time of year? Yes ____ No ✓ (If no, explain in Remarks.)
 Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes ✓ No ____
 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?	Yes ____ No <u>✓</u>	
Hydric Soil Present?	Yes ____ No <u>✓</u>	Is the Sampled Area within a Wetland? Yes ____ No <u>✓</u>
Wetland Hydrology Present?	Yes ____ No <u>✓</u>	If yes, optional Wetland Site ID: _____
Remarks: (Explain alternative procedures here or in a separate report) TRC coverype is UPL. Wetter than average year		

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u>			<u>Secondary Indicators (minimum of two required)</u>		
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)			
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)			
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)	<input type="checkbox"/> Moss Trim Lines (B16)			
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Dry-Season Water Table (C2)			
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Crayfish Burrows (C8)			
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)			
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Stunted or Stressed Plants (D1)			
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Geomorphic Position (D2)			
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)			
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<input type="checkbox"/> Microtopographic Relief (D4)			
		<input type="checkbox"/> FAC-Neutral Test (D5)			
Field Observations:					
Surface Water Present?	Yes ____ No <u>✓</u>	Depth (inches): _____	Wetland Hydrology Present? Yes ____ No <u>✓</u>		
Water Table Present?	Yes ____ No <u>✓</u>	Depth (inches): _____			
Saturation Present?	Yes ____ No <u>✓</u>	Depth (inches): _____			
(includes capillary fringe)					
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:					
Remarks:					

VEGETATION -- Use scientific names of plants.

Sampling Point: W-NWJ-31; UPL-1

Tree Stratum (Plot size: <u>30 ft</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:				
1. _____	_____	_____	_____	Number of Dominant Species That Are OBL, FACW, or FAC:	1	(A)		
2. _____	_____	_____	_____	Total Number of Dominant Species Across All Strata:	2	(B)		
3. _____	_____	_____	_____	Percent of Dominant Species That Are OBL, FACW, or FAC:	50	(A/B)		
4. _____	_____	_____	_____	Prevalence Index worksheet:				
5. _____	_____	_____	_____	Total % Cover of:	Multiply By:			
6. _____	_____	_____	_____	OBL species	0	x 1 =	0	
7. _____	_____	_____	_____	FACW species	0	x 2 =	0	
	0	= Total Cover			FAC species	30	x 3 =	90
Sapling/Shrub Stratum (Plot size: <u>15 ft</u>)	_____	_____	_____	FACU species	30	x 4 =	120	
1. _____	_____	_____	_____	UPL species	0	x 5 =	0	
2. _____	_____	_____	_____	Column Totals	60	(A)	210 (B)	
3. _____	_____	_____	_____	Prevalence Index = B/A = <u>3.5</u>				
4. _____	_____	_____	_____	Hydrophytic Vegetation Indicators:				
5. _____	_____	_____	_____	____ 1- Rapid Test for Hydrophytic Vegetation				
6. _____	_____	_____	_____	____ 2 - Dominance Test is > 50%				
7. _____	_____	_____	_____	____ 3 - Prevalence Index is ≤ 3.0 ¹				
	0	= Total Cover			____ 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)			
Herb Stratum (Plot size: <u>5 ft</u>)	_____	_____	_____	____ Problematic Hydrophytic Vegetation ¹ (Explain)				
1. <i>Trifolium repens</i>	30	Yes	FACU	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic				
2. <i>Juncus tenuis</i>	30	Yes	FAC					
3. _____	_____	_____	_____	Definitions of Vegetation Strata:				
4. _____	_____	_____	_____	Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.				
5. _____	_____	_____	_____	Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.				
6. _____	_____	_____	_____	Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.				
7. _____	_____	_____	_____	Woody vines – All woody vines greater than 3.28 ft in height.				
8. _____	_____	_____	_____	Hydrophytic Vegetation Present? Yes ____ No <u>✓</u>				
9. _____	_____	_____	_____					
10. _____	_____	_____	_____					
11. _____	_____	_____	_____					
12. _____	_____	_____	_____					
	60	= Total Cover						
Woody Vine Stratum (Plot size: <u>30 ft</u>)	_____	_____	_____					
1. _____	_____	_____	_____					
2. _____	_____	_____	_____					
3. _____	_____	_____	_____					
4. _____	_____	_____	_____					
	0	= Total Cover						
Remarks: (Include photo numbers here or on a separate sheet.)								

SOIL

Sampling Point: W-NWJ-31; UPL-1

[illegible]

Vegetation Photos



WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Trelina City/County: Geneva, Ontario Sampling Date: 2019-June-27
 Applicant/Owner: NextEra State: NY Sampling Point: W-NWJ-32; PEM-1
 Investigator(s): Nick DeJohn, Nate Jones Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none): Flat Slope (%): 0-1
 Subregion (LRR or MLRA): LRR L Lat: 42.8699521189 Long: -76.9795437849 Datum: WGS84
 Soil Map Unit Name: Claverack loamy fine sand, 0 to 2 percent slopes NWI classification: _____
 Are climatic/hydrologic conditions on the site typical for this time of year? Yes ____ No ✓ (If no, explain in Remarks.)
 Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes ✓ No ____
 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?	Yes <u>✓</u> No ____	Is the Sampled Area within a Wetland?	Yes <u>✓</u> No ____
Hydric Soil Present?	Yes <u>✓</u> No ____	If yes, optional Wetland Site ID:	W-NWJ-32
Wetland Hydrology Present?	Yes <u>✓</u> No ____		
Remarks: (Explain alternative procedures here or in a separate report)			
TRC coverype is PEM. Wetter than average year			

HYDROLOGY

Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply)			Secondary Indicators (minimum of two required)			
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)				
<input checked="" type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)				
<input checked="" type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)	<input type="checkbox"/> Moss Trim Lines (B16)				
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Dry-Season Water Table (C2)				
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Crayfish Burrows (C8)				
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)				
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Stunted or Stressed Plants (D1)				
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Geomorphic Position (D2)				
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)				
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<input type="checkbox"/> Microtopographic Relief (D4)				
		<input checked="" type="checkbox"/> FAC-Neutral Test (D5)				
Field Observations:						
Surface Water Present?	Yes ____ No <u>✓</u>	Depth (inches):	Wetland Hydrology Present? Yes <u>✓</u> No ____			
Water Table Present?	Yes <u>✓</u> No ____	Depth (inches):				<u>4</u>
Saturation Present?	Yes <u>✓</u> No ____	Depth (inches):				<u>0</u>
(includes capillary fringe)						
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:						
Remarks:						

VEGETATION -- Use scientific names of plants.

Sampling Point: W-NWJ-32; PEM-1

Tree Stratum (Plot size: <u>30 ft</u>)	Absolute % Cover	Dominant Species?	Indicator Status																																									
1. <i>Fraxinus pennsylvanica</i>	10	Yes	FACW	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>4</u> (A) Total Number of Dominant Species Across All Strata: <u>4</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)																																								
2. <i>Salix nigra</i>	5	Yes	OBL																																									
3.																																												
4.																																												
5.																																												
6.																																												
7.																																												
	15	= Total Cover		Prevalence Index worksheet: <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 40%; text-align: left;">Total % Cover of:</th> <th style="width: 10%;"></th> <th style="width: 10%;">Multiply By:</th> <th style="width: 10%;"></th> <th style="width: 10%;"></th> </tr> </thead> <tbody> <tr> <td>OBL species</td> <td>5</td> <td>x 1 =</td> <td>5</td> <td></td> </tr> <tr> <td>FACW species</td> <td>63</td> <td>x 2 =</td> <td>126</td> <td></td> </tr> <tr> <td>FAC species</td> <td>10</td> <td>x 3 =</td> <td>30</td> <td></td> </tr> <tr> <td>FACU species</td> <td>0</td> <td>x 4 =</td> <td>0</td> <td></td> </tr> <tr> <td>UPL species</td> <td>0</td> <td>x 5 =</td> <td>0</td> <td></td> </tr> <tr> <td>Column Totals</td> <td>78</td> <td>(A)</td> <td>161</td> <td>(B)</td> </tr> <tr> <td colspan="3">Prevalence Index = B/A =</td> <td colspan="2"><u>2.1</u></td> </tr> </tbody> </table>	Total % Cover of:		Multiply By:			OBL species	5	x 1 =	5		FACW species	63	x 2 =	126		FAC species	10	x 3 =	30		FACU species	0	x 4 =	0		UPL species	0	x 5 =	0		Column Totals	78	(A)	161	(B)	Prevalence Index = B/A =			<u>2.1</u>	
Total % Cover of:		Multiply By:																																										
OBL species	5	x 1 =	5																																									
FACW species	63	x 2 =	126																																									
FAC species	10	x 3 =	30																																									
FACU species	0	x 4 =	0																																									
UPL species	0	x 5 =	0																																									
Column Totals	78	(A)	161	(B)																																								
Prevalence Index = B/A =			<u>2.1</u>																																									
Sapling/Shrub Stratum (Plot size: <u>15 ft</u>)																																												
1. <i>Rhamnus cathartica</i>	10	Yes	FAC																																									
2.																																												
3.																																												
4.																																												
5.																																												
6.																																												
7.																																												
	10	= Total Cover																																										
Herb Stratum (Plot size: <u>5 ft</u>)																																												
1. <i>Phragmites australis</i>	35	Yes	FACW	Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1- Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is >50% <input checked="" type="checkbox"/> 3 - Prevalence Index is ≤ 3.0 ¹ <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic																																								
2. <i>Onoclea sensibilis</i>	10	No	FACW																																									
3. <i>Fraxinus pennsylvanica</i>	8	No	FACW																																									
4.																																												
5.																																												
6.																																												
7.																																												
8.																																												
9.																																												
10.																																												
11.																																												
12.																																												
	53	= Total Cover																																										
Woody Vine Stratum (Plot size: <u>30 ft</u>)																																												
1.				Definitions of Vegetation Strata: Tree – Woody plants 3 in. (7.6 cm) or more in diameter at 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 size, and woody plants less than 3.28 ft tall. Woody vines – All woody vines greater than 3.28 ft in height.																																								
2.																																												
3.																																												
4.																																												
	0	= Total Cover																																										
Remarks: (Include photo numbers here or on a separate sheet.)																																												

SOIL

Sampling Point: W-NWJ-32; PEM-1

[illegible]

Hydrology Photos



Vegetation Photos



Soil Photos



WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Trelina City/County: Geneva, Ontario Sampling Date: 2019-June-27
 Applicant/Owner: NextEra State: NY Sampling Point: W-NWJ-32; PFO-1
 Investigator(s): Nick DeJohn, Nate Jones Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none): Concave Slope (%): 0-1
 Subregion (LRR or MLRA): LRR L Lat: 42.8701739526 Long: -76.9793869928 Datum: WGS84
 Soil Map Unit Name: Claverack loamy fine sand, 0 to 2 percent slopes NWI classification: _____
 Are climatic/hydrologic conditions on the site typical for this time of year? Yes ____ No ☒ (If no, explain in Remarks.)
 Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes ☒ No ____
 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?	Yes <input checked="" type="checkbox"/> No ____	Is the Sampled Area within a Wetland?	Yes <input checked="" type="checkbox"/> No ____
Hydric Soil Present?	Yes <input checked="" type="checkbox"/> No ____	If yes, optional Wetland Site ID:	W-NWJ-32
Wetland Hydrology Present?	Yes <input checked="" type="checkbox"/> No ____		
Remarks: (Explain alternative procedures here or in a separate report)			
TRC coverype is PFO. Wetter than average year			

HYDROLOGY

Wetland Hydrology Indicators:			
Primary Indicators (minimum of one is required; check all that apply)		Secondary Indicators (minimum of two required)	
<input checked="" type="checkbox"/> Surface Water (A1)	<input checked="" type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)	
<input checked="" type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)	
<input checked="" type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)	<input type="checkbox"/> Moss Trim Lines (B16)	
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Dry-Season Water Table (C2)	
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Crayfish Burrows (C8)	
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)	
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Stunted or Stressed Plants (D1)	
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Geomorphic Position (D2)	
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)	
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<input type="checkbox"/> Microtopographic Relief (D4)	
		<input checked="" type="checkbox"/> FAC-Neutral Test (D5)	
Field Observations:			
Surface Water Present?	Yes <input checked="" type="checkbox"/> No ____	Depth (inches):	<u>2</u>
Water Table Present?	Yes <input checked="" type="checkbox"/> No ____	Depth (inches):	<u>0</u>
Saturation Present?	Yes <input checked="" type="checkbox"/> No ____	Depth (inches):	<u>0</u>
(includes capillary fringe)			
Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No ____			
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:			
Remarks:			

VEGETATION -- Use scientific names of plants.

Sampling Point: W-NWJ-32; PFO-1

Tree Stratum (Plot size: <u>30 ft</u>)	Absolute % Cover	Dominant Species?	Indicator Status																																									
1. <i>Acer rubrum</i>	50	Yes	FAC	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>5</u> (A) Total Number of Dominant Species Across All Strata: <u>5</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)																																								
2. <i>Fraxinus pennsylvanica</i>	35	Yes	FACW																																									
3. _____	_____	_____	_____																																									
4. _____	_____	_____	_____																																									
5. _____	_____	_____	_____																																									
6. _____	_____	_____	_____																																									
7. _____	_____	_____	_____																																									
	85	= Total Cover		Prevalence Index worksheet: <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 40%; text-align: left;">Total % Cover of:</th> <th style="width: 10%;"></th> <th style="width: 10%;">Multiply By:</th> <th style="width: 10%;"></th> <th style="width: 10%;"></th> </tr> </thead> <tbody> <tr> <td>OBL species</td> <td>15</td> <td>x 1 =</td> <td>15</td> <td></td> </tr> <tr> <td>FACW species</td> <td>42</td> <td>x 2 =</td> <td>84</td> <td></td> </tr> <tr> <td>FAC species</td> <td>60</td> <td>x 3 =</td> <td>180</td> <td></td> </tr> <tr> <td>FACU species</td> <td>0</td> <td>x 4 =</td> <td>0</td> <td></td> </tr> <tr> <td>UPL species</td> <td>0</td> <td>x 5 =</td> <td>0</td> <td></td> </tr> <tr> <td>Column Totals</td> <td>117</td> <td>(A)</td> <td>279</td> <td>(B)</td> </tr> <tr> <td colspan="3">Prevalence Index = B/A =</td> <td colspan="2"><u>2.4</u></td> </tr> </tbody> </table>	Total % Cover of:		Multiply By:			OBL species	15	x 1 =	15		FACW species	42	x 2 =	84		FAC species	60	x 3 =	180		FACU species	0	x 4 =	0		UPL species	0	x 5 =	0		Column Totals	117	(A)	279	(B)	Prevalence Index = B/A =			<u>2.4</u>	
Total % Cover of:		Multiply By:																																										
OBL species	15	x 1 =	15																																									
FACW species	42	x 2 =	84																																									
FAC species	60	x 3 =	180																																									
FACU species	0	x 4 =	0																																									
UPL species	0	x 5 =	0																																									
Column Totals	117	(A)	279	(B)																																								
Prevalence Index = B/A =			<u>2.4</u>																																									
Sapling/Shrub Stratum (Plot size: <u>15 ft</u>)																																												
1. _____	_____	_____	_____																																									
2. _____	_____	_____	_____																																									
3. _____	_____	_____	_____																																									
4. _____	_____	_____	_____																																									
5. _____	_____	_____	_____																																									
6. _____	_____	_____	_____																																									
7. _____	_____	_____	_____																																									
	0	= Total Cover																																										
Herb Stratum (Plot size: <u>5 ft</u>)																																												
1. <i>Carex crinita</i>	15	Yes	OBL	Hydrophytic Vegetation Indicators: ____ 1- Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is >50% <input checked="" type="checkbox"/> 3 - Prevalence Index is ≤ 3.0 ¹ ____ 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) ____ Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic																																								
2. <i>Toxicodendron radicans</i>	10	Yes	FAC																																									
3. <i>Onoclea sensibilis</i>	7	Yes	FACW																																									
4. _____	_____	_____	_____																																									
5. _____	_____	_____	_____																																									
6. _____	_____	_____	_____																																									
7. _____	_____	_____	_____																																									
8. _____	_____	_____	_____																																									
9. _____	_____	_____	_____																																									
10. _____	_____	_____	_____																																									
11. _____	_____	_____	_____																																									
12. _____	_____	_____	_____																																									
	32	= Total Cover																																										
Woody Vine Stratum (Plot size: <u>30 ft</u>)																																												
1. _____	_____	_____	_____																																									
2. _____	_____	_____	_____																																									
3. _____	_____	_____	_____																																									
4. _____	_____	_____	_____																																									
	0	= Total Cover																																										
Remarks: (Include photo numbers here or on a separate sheet.)																																												

SOIL

Sampling Point: W-NWJ-32; PFO-1

[illegible]

Hydrology Photos



Vegetation Photos



Soil Photos



WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Trelina City/County: Geneva, Seneca Sampling Date: 2019-June-27
 Applicant/Owner: NextEra State: NY Sampling Point: W-NWJ-32; UPL-1
 Investigator(s): Nick DeJohn, Nate Jones Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): Agricultural Field Local relief (concave, convex, none): Flat Slope (%): 0-1
 Subregion (LRR or MLRA): LRR L Lat: 42.881963 Long: -76.945099 Datum: WGS84
 Soil Map Unit Name: Claverack loamy fine sand, 0 to 2 percent NWI classification: _____
 Are climatic/hydrologic conditions on the site typical for this time of year? Yes ☒ No ____ (If no, explain in Remarks.)
 Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes ____ No ☒
 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?	Yes ____ No <input checked="" type="checkbox"/>	
Hydric Soil Present?	Yes ____ No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland? Yes ____ No <input checked="" type="checkbox"/>
Wetland Hydrology Present?	Yes ____ No <input checked="" type="checkbox"/>	If yes, optional Wetland Site ID: _____
Remarks: (Explain alternative procedures here or in a separate report) TRC coverype is UPL. Circumstances are not normal due to agricultural activities		

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u>			<u>Secondary Indicators (minimum of two required)</u>		
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)			
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)			
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)	<input type="checkbox"/> Moss Trim Lines (B16)			
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Dry-Season Water Table (C2)			
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Crayfish Burrows (C8)			
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)			
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Stunted or Stressed Plants (D1)			
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Geomorphic Position (D2)			
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)			
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<input type="checkbox"/> Microtopographic Relief (D4)			
		<input type="checkbox"/> FAC-Neutral Test (D5)			
Field Observations: Surface Water Present? Yes ____ No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present? Yes ____ No <input checked="" type="checkbox"/> Depth (inches): _____ Saturation Present? Yes ____ No <input checked="" type="checkbox"/> Depth (inches): _____ (includes capillary fringe)			Wetland Hydrology Present? Yes ____ No <input checked="" type="checkbox"/>		
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: 					
Remarks:					

VEGETATION -- Use scientific names of plants.

Sampling Point: W-NWJ-32; UPL-1

Tree Stratum (Plot size: <u>30 ft</u>)	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
	0	= Total Cover		
Sapling/Shrub Stratum (Plot size: <u>15 ft</u>)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
	0	= Total Cover		
Herb Stratum (Plot size: <u>5 ft</u>)				
1. <i>Zea mays</i>	15	Yes	UPL	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
11. _____	_____	_____	_____	
12. _____	_____	_____	_____	
	15	= Total Cover		
Woody Vine Stratum (Plot size: <u>30 ft</u>)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
	0	= Total Cover		

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)

Total Number of Dominant Species Across All Strata: 1 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 0 (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply By:
OBL species	0 x 1 = 0
FACW species	0 x 2 = 0
FAC species	0 x 3 = 0
ACU species	0 x 4 = 0
UPL species	15 x 5 = 75
Column Totals	15 (A) 75 (B)
Prevalence Index = B/A = 5	

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 at 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 size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? Yes ____ No ☒

Remarks: (Include photo numbers here or on a separate sheet.)

Active agricultural field

SOIL

Sampling Point: W-NWJ-32; UPL-1

[illegible]

Vegetation Photos



Soil Photos



WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Trelina City/County: Geneva, Ontario Sampling Date: 2019-June-27
 Applicant/Owner: NextEra State: NY Sampling Point: W-NWJ-33; PEM-1
 Investigator(s): Nick DeJohn, Nate Jones Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none): Concave Slope (%): 0-1
 Subregion (LRR or MLRA): LRR L Lat: 42.8707681457 Long: -76.9793690556 Datum: WGS84
 Soil Map Unit Name: Lamson fine sandy loam and Mucky fine sandy loam NWI classification: _____
 Are climatic/hydrologic conditions on the site typical for this time of year? Yes ____ No ☒ (If no, explain in Remarks.)
 Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes ☒ No ____
 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?	Yes <input checked="" type="checkbox"/> No ____	
Hydric Soil Present?	Yes <input checked="" type="checkbox"/> No ____	Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No ____
Wetland Hydrology Present?	Yes <input checked="" type="checkbox"/> No ____	If yes, optional Wetland Site ID: <u>W-NWJ-33</u>
Remarks: (Explain alternative procedures here or in a separate report) TRC coverype is PEM. Wetter than average year		

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u>			<u>Secondary Indicators (minimum of two required)</u>		
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)			
<input checked="" type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)			
<input checked="" type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)	<input type="checkbox"/> Moss Trim Lines (B16)			
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Dry-Season Water Table (C2)			
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Crayfish Burrows (C8)			
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)			
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Stunted or Stressed Plants (D1)			
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Geomorphic Position (D2)			
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)			
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<input type="checkbox"/> Microtopographic Relief (D4)			
		<input checked="" type="checkbox"/> FAC-Neutral Test (D5)			
Field Observations: Surface Water Present? Yes ____ No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present? Yes <input checked="" type="checkbox"/> No ____ Depth (inches): <u>2</u> Saturation Present? Yes <input checked="" type="checkbox"/> No ____ Depth (inches): <u>0</u> (includes capillary fringe)			Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No ____		
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: 					
Remarks: 					

VEGETATION -- Use scientific names of plants.

Sampling Point: W-NWJ-33; PEM-1

Tree Stratum (Plot size: <u>30 ft</u>)	Absolute % Cover	Dominant Species?	Indicator Status	
1. <i>Fraxinus pennsylvanica</i>	5	Yes	FACW	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: 5 (A) Total Number of Dominant Species Across All Strata: 5 (B) Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B) Prevalence Index worksheet: <div style="display: flex; justify-content: space-between;"> <div> Total % Cover of: OBL species 20 FACW species 80 FAC species 5 FACU species 3 UPL species 0 Column Totals 108 </div> <div> Multiply By: x 1 = 20 x 2 = 160 x 3 = 15 x 4 = 12 x 5 = 0 (A) 207 (B) </div> </div> Prevalence Index = B/A = 1.9
2. <i>Acer rubrum</i>	5	Yes	FAC	
3.				
4.				
5.				
6.				
7.				
	10	= Total Cover		
Sapling/Shrub Stratum (Plot size: <u>15 ft</u>)				Hydrophytic Vegetation Indicators: ___ 1- Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is >50% <input checked="" type="checkbox"/> 3 - Prevalence Index is ≤ 3.0 ¹ ___ 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) ___ Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic
1. <i>Fraxinus pennsylvanica</i>	15	Yes	FACW	
2. <i>Rosa multiflora</i>	3	No	FACU	
3.				
4.				
5.				
6.				
	18	= Total Cover		
Herb Stratum (Plot size: <u>5 ft</u>)				
1. <i>Onoclea sensibilis</i>	55	Yes	FACW	Definitions of Vegetation Strata: Tree – Woody plants 3 in. (7.6 cm) or more in diameter at 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 size, and woody plants less than 3.28 ft tall. Woody vines – All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No ___
2. <i>Carex vulpinoidea</i>	20	Yes	OBL	
3. <i>Fraxinus pennsylvanica</i>	5	No	FACW	
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
	80	= Total Cover		
Woody Vine Stratum (Plot size: <u>30 ft</u>)				
1.				
2.				
3.				
4.				
	0	= Total Cover		
Remarks: (Include photo numbers here or on a separate sheet.)				

SOIL

Sampling Point: W-NWJ-33; PEM-1

[illegible]

Hydrology Photos



Vegetation Photos



Soil Photos



WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Trelina City/County: Geneva, Ontario Sampling Date: 2019-June-27
 Applicant/Owner: NextEra State: NY Sampling Point: W-NWJ-33; PFO-1
 Investigator(s): Nick DeJohn, Nate Jones Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none): Concave Slope (%): 0-1
 Subregion (LRR or MLRA): LRR L Lat: 42.8706909903 Long: -76.9794162457 Datum: WGS84
 Soil Map Unit Name: Cosad loamy fine sand NWI classification: _____
 Are climatic/hydrologic conditions on the site typical for this time of year? Yes ____ No ✓ (If no, explain in Remarks.)
 Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes ✓ No ____
 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?	Yes <u>✓</u> No ____	
Hydric Soil Present?	Yes <u>✓</u> No ____	Is the Sampled Area within a Wetland? Yes <u>✓</u> No ____
Wetland Hydrology Present?	Yes <u>✓</u> No ____	If yes, optional Wetland Site ID: <u>W-NWJ-33</u>
Remarks: (Explain alternative procedures here or in a separate report) TRC coverype is PFO. Wetter than average year		

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u>				<u>Secondary Indicators (minimum of two required)</u>	
<input checked="" type="checkbox"/> Surface Water (A1)	<input checked="" type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)			
<input checked="" type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)			
<input checked="" type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)	<input type="checkbox"/> Moss Trim Lines (B16)			
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Dry-Season Water Table (C2)			
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Crayfish Burrows (C8)			
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)			
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Stunted or Stressed Plants (D1)			
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Geomorphic Position (D2)			
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)			
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<input type="checkbox"/> Microtopographic Relief (D4)			
		<input checked="" type="checkbox"/> FAC-Neutral Test (D5)			
Field Observations:					
Surface Water Present?	Yes <u>✓</u> No ____	Depth (inches):	<u>1</u>	Wetland Hydrology Present? Yes <u>✓</u> No ____	
Water Table Present?	Yes <u>✓</u> No ____	Depth (inches):	<u>0</u>		
Saturation Present?	Yes <u>✓</u> No ____	Depth (inches):	<u>0</u>		
(includes capillary fringe)					
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:					
Remarks:					

VEGETATION -- Use scientific names of plants.

Sampling Point: W-NWJ-33; PFO-1

Tree Stratum (Plot size: <u>30 ft</u>)	Absolute % Cover	Dominant Species?	Indicator Status																	
1. <i>Acer rubrum</i>	60	Yes	FAC	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>5</u> (A) Total Number of Dominant Species Across All Strata: <u>5</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)																
2. <i>Fraxinus pennsylvanica</i>	15	Yes	FACW																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
	<u>75</u>	= Total Cover		Prevalence Index worksheet: <table style="width: 100%;"> <thead> <tr> <th style="text-align: left;">Total % Cover of:</th> <th style="text-align: left;">Multiply By:</th> </tr> </thead> <tbody> <tr> <td>OBL species <u>0</u></td> <td>x 1 = <u>0</u></td> </tr> <tr> <td>FACW species <u>43</u></td> <td>x 2 = <u>86</u></td> </tr> <tr> <td>FAC species <u>85</u></td> <td>x 3 = <u>255</u></td> </tr> <tr> <td>FACU species <u>0</u></td> <td>x 4 = <u>0</u></td> </tr> <tr> <td>UPL species <u>0</u></td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals <u>128</u></td> <td>(A) <u>341</u> (B)</td> </tr> <tr> <td colspan="2">Prevalence Index = B/A = <u>2.7</u></td> </tr> </tbody> </table>	Total % Cover of:	Multiply By:	OBL species <u>0</u>	x 1 = <u>0</u>	FACW species <u>43</u>	x 2 = <u>86</u>	FAC species <u>85</u>	x 3 = <u>255</u>	FACU species <u>0</u>	x 4 = <u>0</u>	UPL species <u>0</u>	x 5 = <u>0</u>	Column Totals <u>128</u>	(A) <u>341</u> (B)	Prevalence Index = B/A = <u>2.7</u>	
Total % Cover of:	Multiply By:																			
OBL species <u>0</u>	x 1 = <u>0</u>																			
FACW species <u>43</u>	x 2 = <u>86</u>																			
FAC species <u>85</u>	x 3 = <u>255</u>																			
FACU species <u>0</u>	x 4 = <u>0</u>																			
UPL species <u>0</u>	x 5 = <u>0</u>																			
Column Totals <u>128</u>	(A) <u>341</u> (B)																			
Prevalence Index = B/A = <u>2.7</u>																				
Sapling/Shrub Stratum (Plot size: <u>15 ft</u>)																				
1. <i>Rhamnus cathartica</i>	10	Yes	FAC																	
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
	<u>10</u>	= Total Cover																		
Herb Stratum (Plot size: <u>5 ft</u>)																				
1. <i>Fraxinus pennsylvanica</i>	25	Yes	FACW	Hydrophytic Vegetation Indicators: ____ 1- Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is >50% <input checked="" type="checkbox"/> 3 - Prevalence Index is ≤ 3.0 ¹ ____ 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) ____ Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic																
2. <i>Toxicodendron radicans</i>	15	Yes	FAC																	
3. <i>Onoclea sensibilis</i>	3	No	FACW																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
8. _____	_____	_____	_____																	
9. _____	_____	_____	_____																	
10. _____	_____	_____	_____																	
11. _____	_____	_____	_____																	
12. _____	_____	_____	_____																	
	<u>43</u>	= Total Cover																		
Woody Vine Stratum (Plot size: <u>30 ft</u>)																				
1. _____	_____	_____	_____	Definitions of Vegetation Strata: Tree – Woody plants 3 in. (7.6 cm) or more in diameter at 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 size, and woody plants less than 3.28 ft tall. Woody vines – All woody vines greater than 3.28 ft in height.																
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
	<u>0</u>	= Total Cover																		
Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No ____																				
Remarks: (Include photo numbers here or on a separate sheet.)																				

SOIL

Sampling Point: W-NWJ-33; PFO-1

[illegible]

Hydrology Photos



Vegetation Photos



Soil Photos



WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Trelina City/County: Geneva, Ontario Sampling Date: 2019-June-27
 Applicant/Owner: NextEra State: NY Sampling Point: W-NWJ-33; UPL-1
 Investigator(s): Nick DeJohn, Nate Jones Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): Agricultural Field Local relief (concave, convex, none): Flat Slope (%): 0-1
 Subregion (LRR or MLRA): LRR L Lat: 42.8707153816 Long: -76.979515655 Datum: WGS84
 Soil Map Unit Name: Cosad loamy fine sand NWI classification: _____
 Are climatic/hydrologic conditions on the site typical for this time of year? Yes ☒ No ____ (If no, explain in Remarks.)
 Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes ____ No ☒
 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?	Yes ____ No <input checked="" type="checkbox"/>	
Hydric Soil Present?	Yes ____ No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland? Yes ____ No <input checked="" type="checkbox"/>
Wetland Hydrology Present?	Yes ____ No <input checked="" type="checkbox"/>	If yes, optional Wetland Site ID: _____
Remarks: (Explain alternative procedures here or in a separate report)		
TRC coverype is UPL. Circumstances are not normal due to agricultural activities, Wetter than average year		

HYDROLOGY

Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply)			Secondary Indicators (minimum of two required)		
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)			
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)			
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)	<input type="checkbox"/> Moss Trim Lines (B16)			
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Dry-Season Water Table (C2)			
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Crayfish Burrows (C8)			
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)			
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Stunted or Stressed Plants (D1)			
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Geomorphic Position (D2)			
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)			
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<input type="checkbox"/> Microtopographic Relief (D4)			
		<input type="checkbox"/> FAC-Neutral Test (D5)			
Field Observations:					
Surface Water Present?	Yes ____ No <input checked="" type="checkbox"/>	Depth (inches): _____	Wetland Hydrology Present? Yes ____ No <input checked="" type="checkbox"/>		
Water Table Present?	Yes ____ No <input checked="" type="checkbox"/>	Depth (inches): _____			
Saturation Present?	Yes ____ No <input checked="" type="checkbox"/>	Depth (inches): _____			
(includes capillary fringe)					
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:					
Remarks:					

Sampling Point: W-NWJ-33; UPL-1

Tree Stratum (Plot size: 30 ft)			Absolute % Cover	Dominant Species?	Indicator Status
1.					
2.					
3.					
4.					
5.					
6.					
7.					
			0	= Total Cover	
Sapling/Shrub Stratum (Plot size: 15 ft)			Absolute % Cover	Dominant Species?	Indicator Status
1.					
2.					
3.					
4.					
5.					
6.					
7.					
			0	= Total Cover	
Herb Stratum (Plot size: 5 ft)			Absolute % Cover	Dominant Species?	Indicator Status
1.	<i>Glycine max</i>		15	Yes	NI
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
			15	= Total Cover	
Woody Vine Stratum (Plot size: 30 ft)			Absolute % Cover	Dominant Species?	Indicator Status
1.					
2.					
3.					
4.					
			0	= Total Cover	

Remarks: (Include photo numbers here or on a separate sheet.)

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)

Total Number of Dominant Species Across All Strata: 1 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 0 (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply By:
OBL species 0	x 1 = 0
FACW species 0	x 2 = 0
FAC species 0	x 3 = 0
FACU species 0	x 4 = 0
UPL species 0	x 5 = 0
Column Totals 0	(A) 0 (B)

Prevalence Index = B/A =

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 at 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 size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? Yes No ☒

SOIL

Sampling Point: W-NWJ-33; UPL-1

[illegible]

Hydrology Photos



Vegetation Photos



Soil Photos



WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Trelina City/County: Geneva, Ontario Sampling Date: 2019-June-27
 Applicant/Owner: NextEra State: NY Sampling Point: W-NWJ-34; PEM-1
 Investigator(s): Nick DeJohn, Nate Jones Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none): Concave Slope (%): 0-1
 Subregion (LRR or MLRA): LRR L Lat: 42.870513149 Long: -76.9794095174 Datum: WGS84
 Soil Map Unit Name: Odessa silt loam, 0 to 2 percent slopes NWI classification: _____
 Are climatic/hydrologic conditions on the site typical for this time of year? Yes ____ No ✓ (If no, explain in Remarks.)
 Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes ✓ No ____
 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?	Yes <u>✓</u> No ____	
Hydric Soil Present?	Yes <u>✓</u> No ____	Is the Sampled Area within a Wetland? Yes <u>✓</u> No ____
Wetland Hydrology Present?	Yes <u>✓</u> No ____	If yes, optional Wetland Site ID: <u>W-NWJ-34</u>
Remarks: (Explain alternative procedures here or in a separate report)		
<p>TRC coverype is PEM. Wetter than average year</p>		

HYDROLOGY

Wetland Hydrology Indicators:			
<u>Primary Indicators (minimum of one is required; check all that apply)</u>		<u>Secondary Indicators (minimum of two required)</u>	
<input checked="" type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)	
<input checked="" type="checkbox"/> High Water Table (A2)	<input checked="" type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)	
<input checked="" type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)	<input type="checkbox"/> Moss Trim Lines (B16)	
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Dry-Season Water Table (C2)	
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Crayfish Burrows (C8)	
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)	
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Stunted or Stressed Plants (D1)	
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Geomorphic Position (D2)	
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)	
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<input type="checkbox"/> Microtopographic Relief (D4)	
		<input checked="" type="checkbox"/> FAC-Neutral Test (D5)	
Field Observations:			
Surface Water Present?	Yes <u>✓</u> No ____	Depth (inches): <u>3</u>	Wetland Hydrology Present? Yes <u>✓</u> No ____
Water Table Present?	Yes <u>✓</u> No ____	Depth (inches): <u>0</u>	
Saturation Present?	Yes <u>✓</u> No ____	Depth (inches): <u>0</u>	
(includes capillary fringe)			
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:			
Remarks:			

Sampling Point: W-NWJ-34; PEM-1

Northcentral and Northeast Region -- Version 2.0 Adapted by TRC

SOIL

Sampling Point: W-NWJ-34; PEM-1

[illegible]

Hydrology Photos



Vegetation Photos



Soil Photos



WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Trelina City/County: Geneva, Ontario Sampling Date: 2019-June-27
 Applicant/Owner: NextEra State: NY Sampling Point: W-NWJ-34; UPL-1
 Investigator(s): Nick DeJohn, Nate Jones Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): Agricultural Field Local relief (concave, convex, none): Flat Slope (%): 0-1
 Subregion (LRR or MLRA): LRR L Lat: 42.8707836103 Long: -76.9794736617 Datum: WGS84
 Soil Map Unit Name: Odessa silt loam, 0 to 2 percent slopes NWI classification: _____
 Are climatic/hydrologic conditions on the site typical for this time of year? Yes ____ No ✓ (If no, explain in Remarks.)
 Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes ✓ No ____
 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?	Yes ____ No <u>✓</u>	
Hydric Soil Present?	Yes ____ No <u>✓</u>	Is the Sampled Area within a Wetland? Yes ____ No <u>✓</u>
Wetland Hydrology Present?	Yes ____ No <u>✓</u>	If yes, optional Wetland Site ID: _____
Remarks: (Explain alternative procedures here or in a separate report) TRC coverype is UPL. Wetter than average year		

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u>			<u>Secondary Indicators (minimum of two required)</u>		
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)			
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)			
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)	<input type="checkbox"/> Moss Trim Lines (B16)			
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Dry-Season Water Table (C2)			
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Crayfish Burrows (C8)			
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)			
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Stunted or Stressed Plants (D1)			
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Geomorphic Position (D2)			
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)			
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<input type="checkbox"/> Microtopographic Relief (D4)			
		<input type="checkbox"/> FAC-Neutral Test (D5)			
Field Observations: Surface Water Present? Yes ____ No <u>✓</u> Depth (inches): _____ Water Table Present? Yes ____ No <u>✓</u> Depth (inches): _____ Saturation Present? Yes ____ No <u>✓</u> Depth (inches): _____ (includes capillary fringe)			Wetland Hydrology Present? Yes ____ No <u>✓</u>		
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: 					
Remarks:					

Sampling Point: W-NWJ-34; UPL-1

Tree Stratum (Plot size: <u>30 ft</u>)				Absolute % Cover				Dominant Species?				Indicator Status				Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>0</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u> </u> (A/B)							
1. _____				_____				_____				_____											
2. _____				_____				_____				_____											
3. _____				_____				_____				_____											
4. _____				_____				_____				_____											
5. _____				_____				_____				_____											
6. _____				_____				_____				_____											
7. _____				_____				_____				_____											
				<u>0</u>				= Total Cover															
Sapling/Shrub Stratum (Plot size: <u>15 ft</u>)																Total % Cover of:				Multiply By:			
1. _____																OBL species				<u>0</u> x 1 = <u>0</u>			
2. _____																FACW species				<u>0</u> x 2 = <u>0</u>			
3. _____																FAC species				<u>0</u> x 3 = <u>0</u>			
4. _____																FACU species				<u>0</u> x 4 = <u>0</u>			
5. _____																UPL species				<u>0</u> x 5 = <u>0</u>			
6. _____																Column Totals				<u>0</u> (A) <u>0</u> (B)			
7. _____																							
				<u>0</u>				= Total Cover								Prevalence Index = B/A = <u> </u>							
Herb Stratum (Plot size: <u>5 ft</u>)																Hydrophytic Vegetation Indicators: ____ 1- Rapid Test for Hydrophytic Vegetation ____ 2 - Dominance Test is > 50% ____ 3 - Prevalence Index is ≤ 3.0 ¹ ____ 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) ____ Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic							
1. _____																_____				_____			
2. _____																_____				_____			
3. _____																_____				_____			
4. _____																_____				_____			
5. _____																_____				_____			
6. _____																_____				_____			
7. _____																_____				_____			
8. _____																_____				_____			
9. _____																_____				_____			
10. _____																_____				_____			
11. _____																_____				_____			
12. _____																_____				_____			
				<u>0</u>				= Total Cover								Definitions of Vegetation Strata: Tree – Woody plants 3 in. (7.6 cm) or more in diameter at 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 size, and woody plants less than 3.28 ft tall. Woody vines – All woody vines greater than 3.28 ft in height.							
Woody Vine Stratum (Plot size: <u>30 ft</u>)																Hydrophytic Vegetation Present? Yes ____ No <u>✓</u>							
1. _____																_____				_____			
2. _____																_____				_____			
3. _____																_____				_____			
4. _____																_____				_____			
				<u>0</u>				= Total Cover															
Remarks: (Include photo numbers here or on a separate sheet.)																							

SOIL

Sampling Point: W-NWJ-34; UPL-1

[illegible]

Hydrology Photos



Vegetation Photos



Soil Photos



WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Trelina City/County: Geneva, Ontario Sampling Date: 2019-June-27
 Applicant/Owner: NextEra State: NY Sampling Point: W-NWJ-35; PEM-1
 Investigator(s): Nick DeJohn, Nate Jones Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none): Concave Slope (%): 0-1
 Subregion (LRR or MLRA): LRR L Lat: 42.8707230511 Long: -76.9795406331 Datum: WGS84
 Soil Map Unit Name: Claverack loamy fine sand, 2 to 6 percent slopes NWI classification: _____
 Are climatic/hydrologic conditions on the site typical for this time of year? Yes ____ No ✓ (If no, explain in Remarks.)
 Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes ✓ No ____
 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?	Yes <u>✓</u> No ____	
Hydric Soil Present?	Yes <u>✓</u> No ____	Is the Sampled Area within a Wetland? Yes <u>✓</u> No ____
Wetland Hydrology Present?	Yes <u>✓</u> No ____	If yes, optional Wetland Site ID: <u>W-NWJ-35</u>
Remarks: (Explain alternative procedures here or in a separate report)		
<p>TRC coverype is PEM. Wetter than average year</p>		

HYDROLOGY

Wetland Hydrology Indicators:			
<u>Primary Indicators (minimum of one is required; check all that apply)</u>		<u>Secondary Indicators (minimum of two required)</u>	
<input checked="" type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)	
<input checked="" type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)	
<input checked="" type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)	<input type="checkbox"/> Moss Trim Lines (B16)	
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Dry-Season Water Table (C2)	
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Crayfish Burrows (C8)	
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)	
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Stunted or Stressed Plants (D1)	
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Geomorphic Position (D2)	
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)	
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<input type="checkbox"/> Microtopographic Relief (D4)	
		<input checked="" type="checkbox"/> FAC-Neutral Test (D5)	
Field Observations:			
Surface Water Present?	Yes <u>✓</u> No ____	Depth (inches): <u>3</u>	Wetland Hydrology Present? Yes <u>✓</u> No ____
Water Table Present?	Yes <u>✓</u> No ____	Depth (inches): <u>0</u>	
Saturation Present?	Yes <u>✓</u> No ____	Depth (inches): <u>0</u>	
(includes capillary fringe)			
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:			
Remarks:			

VEGETATION -- Use scientific names of plants.

Sampling Point: W-NWJ-35; PEM-1

Tree Stratum (Plot size: <u>30 ft</u>)	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
	0	= Total Cover		
Sapling/Shrub Stratum (Plot size: <u>15 ft</u>)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
	0	= Total Cover		
Herb Stratum (Plot size: <u>5 ft</u>)				
1. <i>Eleocharis palustris</i>	35	Yes	OBL	
2. <i>Phalaris arundinacea</i>	15	Yes	FACW	
3. <i>Alisma triviale</i>	10	No	OBL	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
11. _____	_____	_____	_____	
12. _____	_____	_____	_____	
	60	= Total Cover		
Woody Vine Stratum (Plot size: <u>30 ft</u>)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
	0	= Total Cover		

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)

Total Number of Dominant Species Across All Strata: 2 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply By:
OBL species 45	x 1 = 45
FACW species 15	x 2 = 30
FAC species 0	x 3 = 0
FACU species 0	x 4 = 0
UPL species 0	x 5 = 0
Column Totals 60	(A) 75 (B)

Prevalence Index = B/A = 1.3

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 at 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 size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? Yes ☒ No ____

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: W-NWJ-35; PEM-1

[illegible]

Hydrology Photos



Vegetation Photos



Soil Photos



WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Trelina City/County: Geneva, Ontario Sampling Date: 2019-June-27
 Applicant/Owner: NextEra State: NY Sampling Point: W-NWJ-35; UPL-1
 Investigator(s): Nick DeJohn, Nate Jones Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): Agricultural Field Local relief (concave, convex, none): Flat Slope (%): 0-1
 Subregion (LRR or MLRA): LRR L Lat: 42.8706946364 Long: -76.9795220253 Datum: WGS84
 Soil Map Unit Name: Odessa silt loam, 0 to 2 percent slopes NWI classification: _____
 Are climatic/hydrologic conditions on the site typical for this time of year? Yes ____ No ✓ (If no, explain in Remarks.)
 Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes ✓ No ____
 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?	Yes ____ No <u>✓</u>	
Hydric Soil Present?	Yes ____ No <u>✓</u>	Is the Sampled Area within a Wetland? Yes ____ No <u>✓</u>
Wetland Hydrology Present?	Yes ____ No <u>✓</u>	If yes, optional Wetland Site ID: _____
Remarks: (Explain alternative procedures here or in a separate report) TRC coverype is UPL. Circumstances are not normal due to agricultural activities, Wetter than average year		

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u>			<u>Secondary Indicators (minimum of two required)</u>		
____ Surface Water (A1) ____ High Water Table (A2) ____ Saturation (A3) ____ Water Marks (B1) ____ Sediment Deposits (B2) ____ Drift Deposits (B3) ____ Algal Mat or Crust (B4) ____ Iron Deposits (B5) ____ Inundation Visible on Aerial Imagery (B7) ____ Sparsely Vegetated Concave Surface (B8)	____ 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) ____ Other (Explain in Remarks)	____ Surface Soil Cracks (B6) ____ Drainage Patterns (B10) ____ Moss Trim Lines (B16) ____ Dry-Season Water Table (C2) ____ Crayfish Burrows (C8) ____ Saturation Visible on Aerial Imagery (C9) ____ Stunted or Stressed Plants (D1) ____ Geomorphic Position (D2) ____ Shallow Aquitard (D3) ____ Microtopographic Relief (D4) ____ FAC-Neutral Test (D5)			
Field Observations: Surface Water Present? Yes ____ No <u>✓</u> Depth (inches): _____ Water Table Present? Yes ____ No <u>✓</u> Depth (inches): _____ Saturation Present? Yes ____ No <u>✓</u> Depth (inches): _____ (includes capillary fringe)			Wetland Hydrology Present? Yes ____ No <u>✓</u>		
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:					
Remarks:					

VEGETATION -- Use scientific names of plants.

Sampling Point: W-NWJ-35; UPL-1

Tree Stratum (Plot size: <u>30 ft</u>)	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A/B)
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
<u>0</u> = Total Cover				
Sapling/Shrub Stratum (Plot size: <u>15 ft</u>)				Prevalence Index worksheet: <div style="display: flex; justify-content: space-between;"> <div> Total % Cover of: OBL species <u>0</u> FACW species <u>0</u> FAC species <u>0</u> FACU species <u>0</u> UPL species <u>0</u> Column Totals <u>0</u> </div> <div> Multiply By: x 1 = <u>0</u> x 2 = <u>0</u> x 3 = <u>0</u> x 4 = <u>0</u> x 5 = <u>0</u> (A) <u>0</u> (B) <u>0</u> </div> </div> Prevalence Index = B/A = _____
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
<u>0</u> = Total Cover				
Herb Stratum (Plot size: <u>5 ft</u>)				Hydrophytic Vegetation Indicators: ____ 1- Rapid Test for Hydrophytic Vegetation ____ 2 - Dominance Test is > 50% ____ 3 - Prevalence Index is ≤ 3.0 ¹ ____ 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) ____ Problematic Hydrophytic Vegetation ¹ (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 at 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 size, and woody plants less than 3.28 ft tall. Woody vines – All woody vines greater than 3.28 ft in height.
1. <i>Glycine max</i>	20	Yes	NI	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
11. _____	_____	_____	_____	
<u>20</u> = Total Cover				
Woody Vine Stratum (Plot size: <u>30 ft</u>)				Hydrophytic Vegetation Present? Yes ____ No <u>✓</u>
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
<u>0</u> = Total Cover				

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: W-NWJ-35; UPL-1

[illegible]

Hydrology Photos



Vegetation Photos



WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Trelina City/County: Geneva, Ontario 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, Range: _____
 Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none): Concave Slope (%): 0-1
 Subregion (LRR or MLRA): LRR L Lat: 42.8706946364 Long: -76.9795220253 Datum: WGS84
 Soil Map Unit Name: Claverack loamy fine sand, 2 to 6 percent slopes NWI classification: _____
 Are climatic/hydrologic conditions on the site typical for this time of year? Yes ____ No ☒ (If no, explain in Remarks.)
 Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes ☒ No ____
 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?	Yes <input checked="" type="checkbox"/> No ____	
Hydric Soil Present?	Yes <input checked="" type="checkbox"/> No ____	Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No ____
Wetland Hydrology Present?	Yes <input checked="" type="checkbox"/> No ____	If yes, optional Wetland Site ID: <u>W-NWJ-36</u>
Remarks: (Explain alternative procedures here or in a separate report) TRC coverype is PEM. Wetter than average year		

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u>			<u>Secondary Indicators (minimum of two required)</u>		
<input checked="" type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)			
<input checked="" type="checkbox"/> High Water Table (A2)	<input checked="" type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)			
<input checked="" type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)	<input type="checkbox"/> Moss Trim Lines (B16)			
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Dry-Season Water Table (C2)			
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Crayfish Burrows (C8)			
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)			
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Stunted or Stressed Plants (D1)			
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Geomorphic Position (D2)			
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)			
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<input type="checkbox"/> Microtopographic Relief (D4)			
		<input checked="" type="checkbox"/> FAC-Neutral Test (D5)			
Field Observations: Surface Water Present? Yes <input checked="" type="checkbox"/> No ____ Depth (inches): <u>3</u> Water Table Present? Yes <input checked="" type="checkbox"/> No ____ Depth (inches): <u>0</u> Saturation Present? Yes <input checked="" type="checkbox"/> No ____ Depth (inches): <u>0</u> (includes capillary fringe)			Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No ____		
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:					
Remarks:					

Sampling Point: W-NWJ-36; PEM-1

Tree Stratum (Plot size: 30 ft)				Dominance Test worksheet:				
	Absolute % Cover	Dominant Species?	Indicator Status	Number of Dominant Species That Are OBL, FACW, or FAC:				
1.				2 (A)				
2.				Total Number of Dominant Species Across All Strata:				
3.				2 (B)				
4.				Percent of Dominant Species That Are OBL, FACW, or FAC:				
5.				100 (A/B)				
6.				Prevalence Index worksheet:				
7.				Total % Cover of: Multiply By:				
	0	= Total Cover			OBL species	25	x 1 =	25
Sapling/Shrub Stratum (Plot size: 15 ft)				FACW species	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)	
5.				Prevalence Index = B/A = 1.7				
6.				Hydrophytic Vegetation Indicators:				
7.				✓ 1- Rapid Test for Hydrophytic Vegetation				
	0	= Total Cover			✓ 2 - Dominance Test is >50%			
Herb Stratum (Plot size: 5 ft)				✓ 3 - Prevalence Index is ≤ 3.0 ¹				
1. <i>Phalaris arundinacea</i>	55	Yes	FACW	4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)				
2. <i>Eleocharis palustris</i>	25	Yes	OBL	Problematic Hydrophytic Vegetation ¹ (Explain)				
3.				¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic				
4.				Definitions of Vegetation Strata:				
5.				Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.				
6.				Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.				
7.				Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.				
8.				Woody vines – All woody vines greater than 3.28 ft in height.				
9.				Hydrophytic Vegetation Present? Yes ✓ No				
10.								
11.								
12.								
	80	= Total Cover						
Woody Vine Stratum (Plot size: 30 ft)								
1.								
2.								
3.								
4.								
	0	= Total Cover						

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: W-NWJ-36; PEM-1

[illegible]

Hydrology Photos



Vegetation Photos



WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Trelina City/County: Geneva, Ontario Sampling Date: 2019-June-27
 Applicant/Owner: NextEra State: NY Sampling Point: W-NWJ-36; UPL-1
 Investigator(s): Nick DeJohn, Nate Jones Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): Agricultural Field Local relief (concave, convex, none): Flat Slope (%): 0-1
 Subregion (LRR or MLRA): LRR L Lat: 42.8704846743 Long: -76.9793225196 Datum: WGS84
 Soil Map Unit Name: Claverack loamy fine sand, 2 to 6 percent slopes NWI classification: _____
 Are climatic/hydrologic conditions on the site typical for this time of year? Yes ____ No ✓ (If no, explain in Remarks.)
 Are Vegetation ✓, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes ✓ No ____
 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?	Yes ____ No <u>✓</u>	
Hydric Soil Present?	Yes ____ No <u>✓</u>	Is the Sampled Area within a Wetland? Yes ____ No <u>✓</u>
Wetland Hydrology Present?	Yes ____ No <u>✓</u>	If yes, optional Wetland Site ID: _____
Remarks: (Explain alternative procedures here or in a separate report) TRC coverype is UPL. Circumstances are not normal due to agricultural activities, Wetter than average year		

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u>			<u>Secondary Indicators (minimum of two required)</u>		
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)			
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)			
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)	<input type="checkbox"/> Moss Trim Lines (B16)			
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Dry-Season Water Table (C2)			
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Crayfish Burrows (C8)			
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)			
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Stunted or Stressed Plants (D1)			
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Geomorphic Position (D2)			
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)			
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<input type="checkbox"/> Microtopographic Relief (D4)			
		<input type="checkbox"/> FAC-Neutral Test (D5)			
Field Observations:					
Surface Water Present?	Yes ____ No <u>✓</u>	Depth (inches): _____	Wetland Hydrology Present? Yes ____ No <u>✓</u>		
Water Table Present?	Yes ____ No <u>✓</u>	Depth (inches): _____			
Saturation Present?	Yes ____ No <u>✓</u>	Depth (inches): _____			
(includes capillary fringe)					
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:					
Remarks:					

Sampling Point: W-NWJ-36; UPL-1

Northcentral and Northeast Region -- Version 2.0 Adapted by TRC

SOIL

Sampling Point: W-NWJ-36; UPL-1

[illegible]

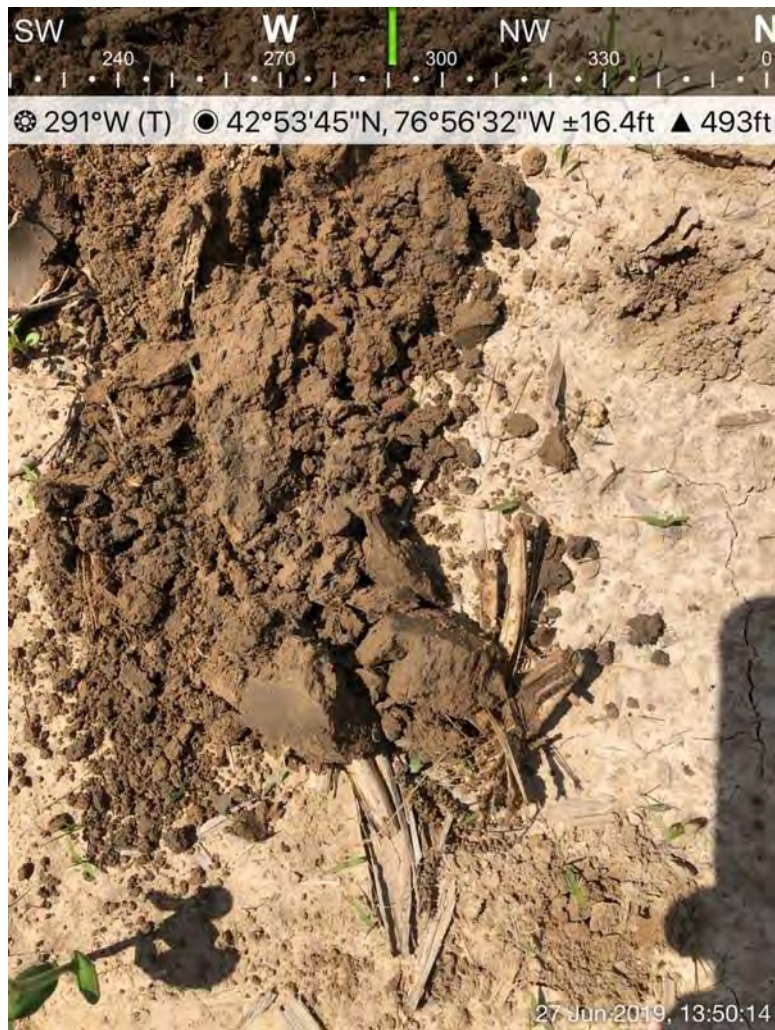
Hydrology Photos



Vegetation Photos



Soil Photos



WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Trelina City/County: Geneva, Ontario Sampling Date: 2019-June-27
 Applicant/Owner: NextEra State: NY Sampling Point: W-NWJ-37; PEM-1
 Investigator(s): Nick DeJohn, Nate Jones Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none): Concave Slope (%): 0-1
 Subregion (LRR or MLRA): LRR L Lat: 42.8707736778 Long: -76.9794791938 Datum: WGS84
 Soil Map Unit Name: Claverack loamy fine sand, 2 to 6 percent slopes NWI classification: _____
 Are climatic/hydrologic conditions on the site typical for this time of year? Yes ____ No ✓ (If no, explain in Remarks.)
 Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes ✓ No ____
 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?	Yes <u>✓</u> No ____	
Hydric Soil Present?	Yes <u>✓</u> No ____	Is the Sampled Area within a Wetland? Yes <u>✓</u> No ____
Wetland Hydrology Present?	Yes <u>✓</u> No ____	If yes, optional Wetland Site ID: <u>W-NWJ-37</u>
Remarks: (Explain alternative procedures here or in a separate report)		
<p>TRC coverype is PEM. Wetter than average year</p>		

HYDROLOGY

Wetland Hydrology Indicators:			
<u>Primary Indicators (minimum of one is required; check all that apply)</u>		<u>Secondary Indicators (minimum of two required)</u>	
<input checked="" type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)	
<input checked="" type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)	
<input checked="" type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)	<input type="checkbox"/> Moss Trim Lines (B16)	
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Dry-Season Water Table (C2)	
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Crayfish Burrows (C8)	
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)	
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Stunted or Stressed Plants (D1)	
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Geomorphic Position (D2)	
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)	
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<input type="checkbox"/> Microtopographic Relief (D4)	
		<input checked="" type="checkbox"/> FAC-Neutral Test (D5)	
Field Observations:			
Surface Water Present?	Yes <u>✓</u> No ____	Depth (inches): <u>3</u>	Wetland Hydrology Present? Yes <u>✓</u> No ____
Water Table Present?	Yes <u>✓</u> No ____	Depth (inches): <u>0</u>	
Saturation Present?	Yes <u>✓</u> No ____	Depth (inches): <u>0</u>	
(includes capillary fringe)			
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:			
Remarks:			

Sampling Point: W-NWJ-37; PEM-1

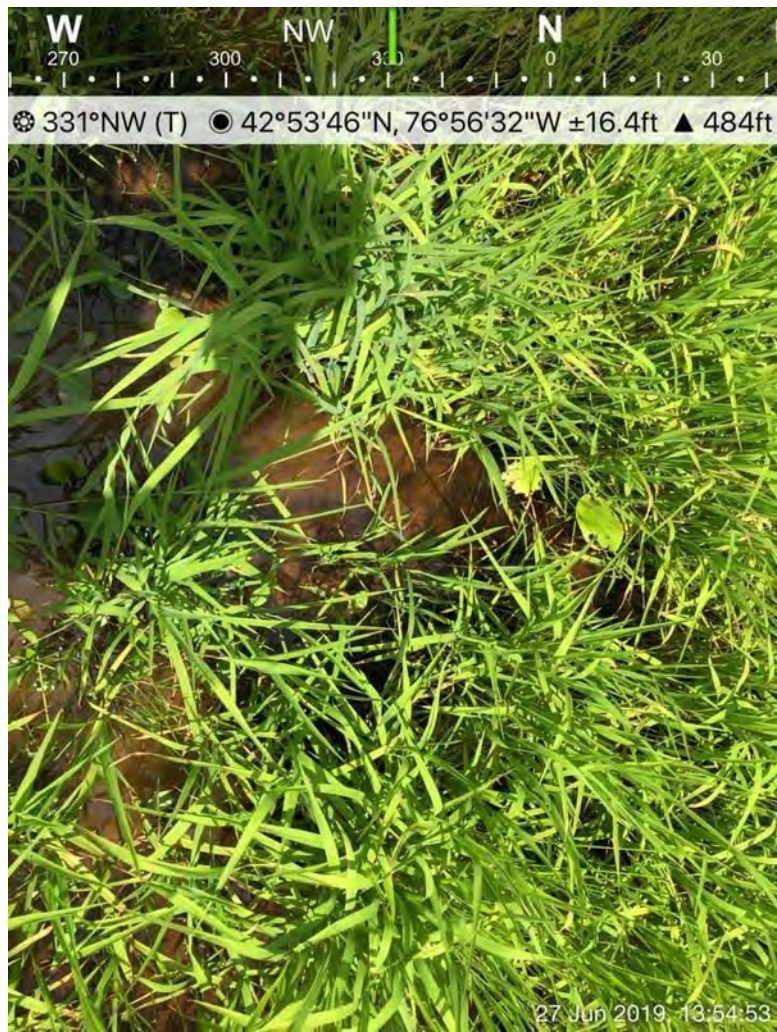
Northcentral and Northeast Region -- Version 2.0 Adapted by TRC

SOIL

Sampling Point: W-NWJ-37; PEM-1

[illegible]

Hydrology Photos



Vegetation Photos



WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Trelina City/County: Geneva, Ontario Sampling Date: 2019-June-27
 Applicant/Owner: NextEra State: NY Sampling Point: W-NWJ-37; UPL-1
 Investigator(s): Nick DeJohn, Nate Jones Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): Agricultural Field Local relief (concave, convex, none): Flat Slope (%): 0-1
 Subregion (LRR or MLRA): LRR L Lat: 42.870752723 Long: -76.9794542995 Datum: WGS84
 Soil Map Unit Name: Claverack loamy fine sand, 2 to 6 percent slopes NWI classification: _____
 Are climatic/hydrologic conditions on the site typical for this time of year? Yes ____ No ☒ (If no, explain in Remarks.)
 Are Vegetation ☒ Soil ____ or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes ☒ No ____
 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?	Yes ____ No <input checked="" type="checkbox"/>	
Hydric Soil Present?	Yes ____ No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland? Yes ____ No <input checked="" type="checkbox"/>
Wetland Hydrology Present?	Yes ____ No <input checked="" type="checkbox"/>	If yes, optional Wetland Site ID: _____
Remarks: (Explain alternative procedures here or in a separate report) TRC coverype is UPL. Circumstances are not normal due to agricultural activities, Wetter than average year		

HYDROLOGY

Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply)			Secondary Indicators (minimum of two required)		
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)			
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)			
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)	<input type="checkbox"/> Moss Trim Lines (B16)			
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Dry-Season Water Table (C2)			
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Crayfish Burrows (C8)			
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)			
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Stunted or Stressed Plants (D1)			
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Geomorphic Position (D2)			
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)			
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<input type="checkbox"/> Microtopographic Relief (D4)			
		<input type="checkbox"/> FAC-Neutral Test (D5)			
Field Observations: Surface Water Present? Yes ____ No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present? Yes ____ No <input checked="" type="checkbox"/> Depth (inches): _____ Saturation Present? Yes ____ No <input checked="" type="checkbox"/> Depth (inches): _____ (includes capillary fringe)			Wetland Hydrology Present? Yes ____ No <input checked="" type="checkbox"/>		
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: 					
Remarks:					

Sampling Point: W-NWJ-37; UPL-1

Tree Stratum (Plot size: <u>30 ft</u>)			Absolute % Cover	Dominant Species?	Indicator Status
1.					
2.					
3.					
4.					
5.					
6.					
7.					
			0	= Total Cover	
Sapling/Shrub Stratum (Plot size: <u>15 ft</u>)					
1.					
2.					
3.					
4.					
5.					
6.					
7.					
			0	= Total Cover	
Herb Stratum (Plot size: <u>5 ft</u>)					
1.	<i>Glycine max</i>		35	Yes	NI
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
			35	= Total Cover	
Woody Vine Stratum (Plot size: <u>30 ft</u>)					
1.					
2.					
3.					
4.					
			0	= Total Cover	

Remarks: (Include photo numbers here or on a separate sheet.)

Active agricultural field

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)

Total Number of Dominant Species Across All Strata: 1 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 0 (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply By:
OBL species 0	x 1 = 0
FACW species 0	x 2 = 0
FAC species 0	x 3 = 0
FACU species 0	x 4 = 0
UPL species 0	x 5 = 0
Column Totals 0	(A) 0 (B)

Prevalence Index = B/A =

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 at 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 size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? Yes ☐ No ☒

SOIL

Sampling Point: W-NWJ-37; UPL-1

[illegible]

Hydrology Photos



Vegetation Photos



WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Trelina City/County: Syracuse, Onondaga Sampling Date: 2019-June-28
 Applicant/Owner: NextEra State: NY Sampling Point: W-NWJ-38; PEM-1
 Investigator(s): Nick DeJohn, Nate Jones Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none): Concave Slope (%): 0-1
 Subregion (LRR or MLRA): LRR L Lat: 42.871408 Long: -76.978446 Datum: WGS84
 Soil Map Unit Name: Lakemont silty clay loam, 0 to 2 percent slopes NWI classification: _____
 Are climatic/hydrologic conditions on the site typical for this time of year? Yes ____ No ☒ (If no, explain in Remarks.)
 Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes ☒ No ____
 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?	Yes <input checked="" type="checkbox"/> No ____	
Hydric Soil Present?	Yes <input checked="" type="checkbox"/> No ____	Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No ____
Wetland Hydrology Present?	Yes <input checked="" type="checkbox"/> No ____	If yes, optional Wetland Site ID: W-NWJ-38
Remarks: (Explain alternative procedures here or in a separate report)		
<p>TRC coverype is PEM. Wetter than average year</p>		

HYDROLOGY

Wetland Hydrology Indicators:			
<u>Primary Indicators (minimum of one is required; check all that apply)</u>		<u>Secondary Indicators (minimum of two required)</u>	
<input checked="" type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)	
<input checked="" type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)	
<input checked="" type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)	<input type="checkbox"/> Moss Trim Lines (B16)	
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Dry-Season Water Table (C2)	
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Crayfish Burrows (C8)	
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)	
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Stunted or Stressed Plants (D1)	
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Geomorphic Position (D2)	
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)	
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<input type="checkbox"/> Microtopographic Relief (D4)	
		<input checked="" type="checkbox"/> FAC-Neutral Test (D5)	
Field Observations:			
Surface Water Present?	Yes <input checked="" type="checkbox"/> No ____	Depth (inches):	<u>1</u>
Water Table Present?	Yes <input checked="" type="checkbox"/> No ____	Depth (inches):	<u>0</u>
Saturation Present?	Yes <input checked="" type="checkbox"/> No ____	Depth (inches):	<u>0</u>
(includes capillary fringe)		Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No ____	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:			
Remarks:			

VEGETATION -- Use scientific names of plants.

Sampling Point: W-NWJ-38; PEM-1

Tree Stratum (Plot size: <u>30 ft</u>)	Absolute % Cover	Dominant Species?	Indicator Status																																									
1. _____	_____	_____	_____	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)																																								
2. _____	_____	_____	_____																																									
3. _____	_____	_____	_____																																									
4. _____	_____	_____	_____																																									
5. _____	_____	_____	_____																																									
6. _____	_____	_____	_____																																									
7. _____	_____	_____	_____																																									
	<u>0</u>	= Total Cover		Prevalence Index worksheet: <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 40%; text-align: left;">Total % Cover of:</th> <th style="width: 10%;"></th> <th style="width: 10%;">Multiply By:</th> <th style="width: 10%;"></th> <th style="width: 10%;"></th> </tr> </thead> <tbody> <tr><td>OBL species</td><td style="text-align: center;">40</td><td>x 1 =</td><td style="text-align: center;">40</td><td></td></tr> <tr><td>FACW species</td><td style="text-align: center;">0</td><td>x 2 =</td><td style="text-align: center;">0</td><td></td></tr> <tr><td>FAC species</td><td style="text-align: center;">0</td><td>x 3 =</td><td style="text-align: center;">0</td><td></td></tr> <tr><td>FACU species</td><td style="text-align: center;">0</td><td>x 4 =</td><td style="text-align: center;">0</td><td></td></tr> <tr><td>UPL species</td><td style="text-align: center;">0</td><td>x 5 =</td><td style="text-align: center;">0</td><td></td></tr> <tr><td>Column Totals</td><td style="text-align: center;">40</td><td>(A)</td><td style="text-align: center;">40</td><td>(B)</td></tr> <tr><td colspan="5">Prevalence Index = B/A = <u>1</u></td></tr> </tbody> </table>	Total % Cover of:		Multiply By:			OBL species	40	x 1 =	40		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	40	(A)	40	(B)	Prevalence Index = B/A = <u>1</u>				
Total % Cover of:		Multiply By:																																										
OBL species	40	x 1 =	40																																									
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	40	(A)	40	(B)																																								
Prevalence Index = B/A = <u>1</u>																																												
Sapling/Shrub Stratum (Plot size: <u>15 ft</u>)																																												
1. _____	_____	_____	_____																																									
2. _____	_____	_____	_____																																									
3. _____	_____	_____	_____																																									
4. _____	_____	_____	_____																																									
5. _____	_____	_____	_____																																									
6. _____	_____	_____	_____																																									
7. _____	_____	_____	_____																																									
	<u>0</u>	= Total Cover																																										
Herb Stratum (Plot size: <u>5 ft</u>)																																												
1. <i>Eleocharis palustris</i>	30	Yes	OBL																																									
2. <i>Ranunculus sceleratus</i>	10	Yes	OBL																																									
3. _____	_____	_____	_____																																									
4. _____	_____	_____	_____																																									
5. _____	_____	_____	_____																																									
6. _____	_____	_____	_____																																									
7. _____	_____	_____	_____																																									
8. _____	_____	_____	_____																																									
9. _____	_____	_____	_____																																									
10. _____	_____	_____	_____																																									
11. _____	_____	_____	_____																																									
12. _____	_____	_____	_____																																									
	<u>40</u>	= Total Cover																																										
Woody Vine Stratum (Plot size: <u>30 ft</u>)																																												
1. _____	_____	_____	_____																																									
2. _____	_____	_____	_____																																									
3. _____	_____	_____	_____																																									
4. _____	_____	_____	_____																																									
	<u>0</u>	= Total Cover																																										

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 at 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 size, and woody plants less than 3.28 ft tall.
Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? Yes ☒ No ☐

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: W-NWJ-38; PEM-1

[illegible]

Hydrology Photos



Soil Photos



WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Trelina City/County: Syracuse, Onondaga Sampling Date: 2019-June-28
 Applicant/Owner: NextEra State: NY Sampling Point: W-NWJ-38; UPL-1
 Investigator(s): Nick DeJohn, Nate Jones Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): Agricultural Field Local relief (concave, convex, none): Flat Slope (%): 0-1
 Subregion (LRR or MLRA): LRR L Lat: 42.870599 Long: -76.97941 Datum: WGS84
 Soil Map Unit Name: Lakemont silty clay loam, 0 to 2 percent slopes NWI classification: _____
 Are climatic/hydrologic conditions on the site typical for this time of year? Yes ____ No ✓ (If no, explain in Remarks.)
 Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes ✓ No ____
 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?	Yes ____ No <u>✓</u>	
Hydric Soil Present?	Yes ____ No <u>✓</u>	Is the Sampled Area within a Wetland? Yes ____ No <u>✓</u>
Wetland Hydrology Present?	Yes ____ No <u>✓</u>	If yes, optional Wetland Site ID: _____
Remarks: (Explain alternative procedures here or in a separate report) TRC coverype is UPL. Wetter than average year		

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u>			<u>Secondary Indicators (minimum of two required)</u>		
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)			
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)			
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)	<input type="checkbox"/> Moss Trim Lines (B16)			
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Dry-Season Water Table (C2)			
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Crayfish Burrows (C8)			
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)			
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Stunted or Stressed Plants (D1)			
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Geomorphic Position (D2)			
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)			
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<input type="checkbox"/> Microtopographic Relief (D4)			
		<input type="checkbox"/> FAC-Neutral Test (D5)			
Field Observations: Surface Water Present? Yes ____ No <u>✓</u> Depth (inches): _____ Water Table Present? Yes ____ No <u>✓</u> Depth (inches): _____ Saturation Present? Yes ____ No <u>✓</u> Depth (inches): _____ (includes capillary fringe)			Wetland Hydrology Present? Yes ____ No <u>✓</u>		
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: 					
Remarks:					

VEGETATION -- Use scientific names of plants.

Sampling Point: W-NWJ-38; UPL-1

Tree Stratum (Plot size: <u>30 ft</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:			
1. _____	_____	_____	_____	Number of Dominant Species That Are OBL, FACW, or FAC:	<u>0</u>	(A)	
2. _____	_____	_____	_____	Total Number of Dominant Species Across All Strata:	<u>1</u>	(B)	
3. _____	_____	_____	_____	Percent of Dominant Species That Are OBL, FACW, or FAC:	<u>0</u>	(A/B)	
4. _____	_____	_____	_____	Prevalence Index worksheet:			
5. _____	_____	_____	_____	Total % Cover of:		Multiply By:	
6. _____	_____	_____	_____	OBL species	<u>0</u>	x 1 =	<u>0</u>
7. _____	_____	_____	_____	FACW species	<u>0</u>	x 2 =	<u>0</u>
	<u>0</u>	= Total Cover		FAC species	<u>0</u>	x 3 =	<u>0</u>
Sapling/Shrub Stratum (Plot size: <u>15 ft</u>)				FACU species	<u>0</u>	x 4 =	<u>0</u>
1. <i>Zea mays</i>	<u>25</u>	Yes	UPL	UPL species	<u>25</u>	x 5 =	<u>125</u>
2. _____	_____	_____	_____	Column Totals	<u>25</u>	(A)	<u>125</u> (B)
3. _____	_____	_____	_____	Prevalence Index = B/A = <u>5</u>			
4. _____	_____	_____	_____	Hydrophytic Vegetation Indicators:			
5. _____	_____	_____	_____	____ 1- Rapid Test for Hydrophytic Vegetation			
6. _____	_____	_____	_____	____ 2 - Dominance Test is > 50%			
7. _____	_____	_____	_____	____ 3 - Prevalence Index is ≤ 3.0 ¹			
	<u>25</u>	= Total Cover		____ 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)			
Herb Stratum (Plot size: <u>5 ft</u>)				____ Problematic Hydrophytic Vegetation ¹ (Explain)			
1. _____	_____	_____	_____	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic			
2. _____	_____	_____	_____	Definitions of Vegetation Strata:			
3. _____	_____	_____	_____	Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.			
4. _____	_____	_____	_____	Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.			
5. _____	_____	_____	_____	Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.			
6. _____	_____	_____	_____	Woody vines – All woody vines greater than 3.28 ft in height.			
7. _____	_____	_____	_____	Hydrophytic Vegetation Present? Yes ____ No <u>✓</u>			
8. _____	_____	_____	_____				
9. _____	_____	_____	_____				
10. _____	_____	_____	_____				
11. _____	_____	_____	_____				
12. _____	_____	_____	_____				
	<u>0</u>	= Total Cover					
Woody Vine Stratum (Plot size: <u>30 ft</u>)							
1. _____	_____	_____	_____				
2. _____	_____	_____	_____				
3. _____	_____	_____	_____				
4. _____	_____	_____	_____				
	<u>0</u>	= Total Cover					
Remarks: (Include photo numbers here or on a separate sheet.) Active agricultural field							

SOIL

Sampling Point: W-NWJ-38; UPL-1

[illegible]

Vegetation Photos



Soil Photos



WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Trelina City/County: Syracuse, Onondaga Sampling Date: 2019-June-28
 Applicant/Owner: NextEra State: NY Sampling Point: W-NWJ-39; PEM-1
 Investigator(s): Nick DeJohn, Nate Jones Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none): Concave Slope (%): 0-1
 Subregion (LRR or MLRA): LRR L Lat: 42.870542 Long: -76.979441 Datum: WGS84
 Soil Map Unit Name: Claverack loamy fine sand, 2 to 6 percent slopes NWI classification: _____
 Are climatic/hydrologic conditions on the site typical for this time of year? Yes ____ No ☒ (If no, explain in Remarks.)
 Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes ☒ No ____
 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?	Yes <input checked="" type="checkbox"/> No ____	
Hydric Soil Present?	Yes <input checked="" type="checkbox"/> No ____	Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No ____
Wetland Hydrology Present?	Yes <input checked="" type="checkbox"/> No ____	If yes, optional Wetland Site ID: W-NWJ-39
Remarks: (Explain alternative procedures here or in a separate report) TRC coverype is PEM. Wetter than average year		

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u>				<u>Secondary Indicators (minimum of two required)</u>	
<input checked="" type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)			
<input checked="" type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)			
<input checked="" type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)	<input type="checkbox"/> Moss Trim Lines (B16)			
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Dry-Season Water Table (C2)			
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Crayfish Burrows (C8)			
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)			
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Stunted or Stressed Plants (D1)			
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Geomorphic Position (D2)			
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)			
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<input type="checkbox"/> Microtopographic Relief (D4)			
		<input checked="" type="checkbox"/> FAC-Neutral Test (D5)			
Field Observations:					
Surface Water Present?	Yes <input checked="" type="checkbox"/> No ____	Depth (inches):	<u>2</u>	Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No ____	
Water Table Present?	Yes <input checked="" type="checkbox"/> No ____	Depth (inches):	<u>0</u>		
Saturation Present?	Yes <input checked="" type="checkbox"/> No ____	Depth (inches):	<u>0</u>		
(includes capillary fringe)					
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:					
Remarks:					

VEGETATION -- Use scientific names of plants.

Sampling Point: W-NWJ-39; PEM-1

Tree Stratum (Plot size: <u>30 ft</u>)	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
	0	= Total Cover		
Sapling/Shrub Stratum (Plot size: <u>15 ft</u>)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
	0	= Total Cover		
Herb Stratum (Plot size: <u>5 ft</u>)				
1. <i>Eleocharis palustris</i>	50	Yes	OBL	
2. <i>Typha latifolia</i>	5	No	OBL	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
11. _____	_____	_____	_____	
12. _____	_____	_____	_____	
	55	= Total Cover		
Woody Vine Stratum (Plot size: <u>30 ft</u>)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
	0	= Total Cover		

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)

Total Number of Dominant Species Across All Strata: 1 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply By:
OBL species	55 x 1 = 55
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	55 (A) 55 (B)
Prevalence Index = B/A = 1	

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 at 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 size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? Yes ☒ No ____

Remarks: (Include photo numbers here or on a separate sheet.)

Active agricultural field

SOIL

Sampling Point: W-NWJ-39; PEM-1

[illegible]

Hydrology Photos



Vegetation Photos



Soil Photos



WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Trelina City/County: Syracuse, Onondaga Sampling Date: 2019-June-28
 Applicant/Owner: NextEra State: NY Sampling Point: W-NWJ-39; UPL-1
 Investigator(s): Nick DeJohn, Nate Jones Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): Agricultural Field Local relief (concave, convex, none): Flat Slope (%): 0-1
 Subregion (LRR or MLRA): LRR L Lat: 42.870443 Long: -76.979685 Datum: WGS84
 Soil Map Unit Name: Claverack loamy fine sand, 2 to 6 percent slopes NWI classification: _____
 Are climatic/hydrologic conditions on the site typical for this time of year? Yes ____ No ✓ (If no, explain in Remarks.)
 Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes ✓ No ____
 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?	Yes ____ No <u>✓</u>	Is the Sampled Area within a Wetland?	Yes ____ No <u>✓</u>
Hydric Soil Present?	Yes ____ No <u>✓</u>	If yes, optional Wetland Site ID: _____	
Wetland Hydrology Present?	Yes ____ No <u>✓</u>		
Remarks: (Explain alternative procedures here or in a separate report)			
TRC coverype is UPL. Wetter than average year			

HYDROLOGY

Wetland Hydrology Indicators:		
Primary Indicators (minimum of one is required; check all that apply)		Secondary Indicators (minimum of two required)
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)	<input type="checkbox"/> Moss Trim Lines (B16)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Stunted or Stressed Plants (D1)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<input type="checkbox"/> Microtopographic Relief (D4)
		<input type="checkbox"/> FAC-Neutral Test (D5)
Field Observations:		
Surface Water Present?	Yes ____ No <u>✓</u>	Depth (inches): _____
Water Table Present?	Yes ____ No <u>✓</u>	Depth (inches): _____
Saturation Present?	Yes ____ No <u>✓</u>	Depth (inches): _____
(includes capillary fringe)		Wetland Hydrology Present? Yes ____ No <u>✓</u>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:		
Remarks:		

VEGETATION -- Use scientific names of plants.

Sampling Point: W-NWJ-39; UPL-1

Tree Stratum (Plot size: <u>30 ft</u>)	Absolute % Cover	Dominant Species?	Indicator Status																	
1. _____	_____	_____	_____	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A/B)																
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
	<u>0</u>	= Total Cover		Prevalence Index worksheet: <table style="width: 100%;"> <thead> <tr> <th style="text-align: left;">Total % Cover of:</th> <th style="text-align: left;">Multiply By:</th> </tr> </thead> <tbody> <tr><td>OBL species</td><td><u>0</u> x 1 = <u>0</u></td></tr> <tr><td>FACW species</td><td><u>0</u> x 2 = <u>0</u></td></tr> <tr><td>FAC species</td><td><u>0</u> x 3 = <u>0</u></td></tr> <tr><td>FACU species</td><td><u>0</u> x 4 = <u>0</u></td></tr> <tr><td>UPL species</td><td><u>0</u> x 5 = <u>0</u></td></tr> <tr><td>Column Totals</td><td><u>0</u> (A) <u>0</u> (B)</td></tr> <tr><td colspan="2">Prevalence Index = B/A = _____</td></tr> </tbody> </table>	Total % Cover of:	Multiply By:	OBL species	<u>0</u> x 1 = <u>0</u>	FACW species	<u>0</u> x 2 = <u>0</u>	FAC species	<u>0</u> x 3 = <u>0</u>	FACU species	<u>0</u> x 4 = <u>0</u>	UPL species	<u>0</u> x 5 = <u>0</u>	Column Totals	<u>0</u> (A) <u>0</u> (B)	Prevalence Index = B/A = _____	
Total % Cover of:	Multiply By:																			
OBL species	<u>0</u> x 1 = <u>0</u>																			
FACW species	<u>0</u> x 2 = <u>0</u>																			
FAC species	<u>0</u> x 3 = <u>0</u>																			
FACU species	<u>0</u> x 4 = <u>0</u>																			
UPL species	<u>0</u> x 5 = <u>0</u>																			
Column Totals	<u>0</u> (A) <u>0</u> (B)																			
Prevalence Index = B/A = _____																				
Sapling/Shrub Stratum (Plot size: <u>15 ft</u>)																				
1. _____	_____	_____	_____																	
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
	<u>0</u>	= Total Cover																		
Herb Stratum (Plot size: <u>5 ft</u>)																				
1. <i>Glycine max</i>	<u>20</u>	<u>Yes</u>	<u>NI</u>																	
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
8. _____	_____	_____	_____																	
9. _____	_____	_____	_____																	
10. _____	_____	_____	_____																	
11. _____	_____	_____	_____																	
12. _____	_____	_____	_____																	
	<u>20</u>	= Total Cover																		
Woody Vine Stratum (Plot size: <u>30 ft</u>)																				
1. _____	_____	_____	_____																	
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
	<u>0</u>	= Total Cover																		

Remarks: (Include photo numbers here or on a separate sheet.)

Active agricultural field

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 at 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 size, and woody plants less than 3.28 ft tall.
Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? Yes ____ No ✓

SOIL

Sampling Point: W-NWJ-39; UPL-1

[illegible]

Vegetation Photos



WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Trelina City/County: Ballston Lake, Saratoga Sampling Date: 2019-June-28
 Applicant/Owner: NextEra State: NY Sampling Point: W-NWJ-40; PEM-1
 Investigator(s): Nick DeJohn, Nate Jones Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none): Concave Slope (%): 0-1
 Subregion (LRR or MLRA): LRR L Lat: 42.870467 Long: -76.979576 Datum: WGS84
 Soil Map Unit Name: Cosad loamy fine sand NWI classification: _____
 Are climatic/hydrologic conditions on the site typical for this time of year? Yes ____ No ☒ (If no, explain in Remarks.)
 Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes ☒ No ____
 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?	Yes <input checked="" type="checkbox"/> No ____	
Hydric Soil Present?	Yes <input checked="" type="checkbox"/> No ____	Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No ____
Wetland Hydrology Present?	Yes <input checked="" type="checkbox"/> No ____	If yes, optional Wetland Site ID: <u>W-NWJ-40</u>
Remarks: (Explain alternative procedures here or in a separate report) TRC coverype is PEM. Wetter than average year		

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u>				<u>Secondary Indicators (minimum of two required)</u>	
<input checked="" type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)			
<input checked="" type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)			
<input checked="" type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)	<input type="checkbox"/> Moss Trim Lines (B16)			
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Dry-Season Water Table (C2)			
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Crayfish Burrows (C8)			
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)			
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Stunted or Stressed Plants (D1)			
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Geomorphic Position (D2)			
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)			
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<input type="checkbox"/> Microtopographic Relief (D4)			
		<input checked="" type="checkbox"/> FAC-Neutral Test (D5)			
Field Observations:					
Surface Water Present?	Yes <input checked="" type="checkbox"/> No ____	Depth (inches):	<u>1</u>	Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No ____	
Water Table Present?	Yes <input checked="" type="checkbox"/> No ____	Depth (inches):	<u>0</u>		
Saturation Present?	Yes <input checked="" type="checkbox"/> No ____	Depth (inches):	<u>0</u>		
(includes capillary fringe)					
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:					
Remarks:					

VEGETATION -- Use scientific names of plants.

Sampling Point: W-NWJ-40; PEM-1

Tree Stratum (Plot size: <u>30 ft</u>)	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
	0	= Total Cover		
Sapling/Shrub Stratum (Plot size: <u>15 ft</u>)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
	0	= Total Cover		
Herb Stratum (Plot size: <u>5 ft</u>)				
1. <i>Phalaris arundinacea</i>	30	Yes	FACW	
2. <i>Typha latifolia</i>	25	Yes	OBL	
3. <i>Juncus effusus</i>	10	No	OBL	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
11. _____	_____	_____	_____	
12. _____	_____	_____	_____	
	65	= Total Cover		
Woody Vine Stratum (Plot size: <u>30 ft</u>)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
	0	= Total Cover		

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)

Total Number of Dominant Species Across All Strata: 2 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply By:
OBL species 35	x 1 = 35
FACW species 30	x 2 = 60
FAC species 0	x 3 = 0
FACU species 0	x 4 = 0
UPL species 0	x 5 = 0
Column Totals 65	(A) 95 (B)

Prevalence Index = B/A = 1.5

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 at 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 size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? Yes ☒ No ____

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: W-NWJ-40; PEM-1

[illegible]

Hydrology Photos



Vegetation Photos



WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Trelina City/County: Ballston Lake, Saratoga Sampling Date: 2019-June-28
 Applicant/Owner: NextEra State: NY Sampling Point: W-NWJ-40; UPL-1
 Investigator(s): Nick DeJohn, Nate Jones Section, Township, Range:
 Landform (hillslope, terrace, etc.): Agricultural Field Local relief (concave, convex, none): Flat Slope (%): 0-1
 Subregion (LRR or MLRA): LRR L Lat: 42.872319 Long: -76.978682 Datum: WGS84
 Soil Map Unit Name: Cosad loamy fine sand NWI classification:
 Are climatic/hydrologic conditions on the site typical for this time of year? Yes ___ No ☒ (If no, explain in Remarks.)
 Are Vegetation __, Soil __, or Hydrology __ significantly disturbed? Are "Normal Circumstances" present? Yes ☒ No ___
 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?	Yes ___ No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland?	Yes ___ No <input checked="" type="checkbox"/>
Hydric Soil Present?	Yes ___ No <input checked="" type="checkbox"/>	If yes, optional Wetland Site ID:	
Wetland Hydrology Present?	Yes ___ No <input checked="" type="checkbox"/>		
Remarks: (Explain alternative procedures here or in a separate report)			
TRC coverype is UPL. Wetter than average year			

HYDROLOGY

Wetland Hydrology Indicators:		
Primary Indicators (minimum of one is required; check all that apply)		Secondary Indicators (minimum of two required)
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)	<input type="checkbox"/> Moss Trim Lines (B16)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Stunted or Stressed Plants (D1)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<input type="checkbox"/> Microtopographic Relief (D4)
		<input type="checkbox"/> FAC-Neutral Test (D5)
Field Observations:		
Surface Water Present? Yes ___ No <input checked="" type="checkbox"/>	Depth (inches): _____	Wetland Hydrology Present? Yes ___ No <input checked="" type="checkbox"/>
Water Table Present? Yes ___ No <input checked="" type="checkbox"/>	Depth (inches): _____	
Saturation Present? Yes ___ No <input checked="" type="checkbox"/>	Depth (inches): _____	
(includes capillary fringe)		
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:		
Remarks:		

VEGETATION -- Use scientific names of plants.

Sampling Point: W-NWJ-40; UPL-1

Tree Stratum (Plot size: <u>30 ft</u>)	Absolute % Cover	Dominant Species?	Indicator Status																																									
1. _____	_____	_____	_____	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A/B)																																								
2. _____	_____	_____	_____																																									
3. _____	_____	_____	_____																																									
4. _____	_____	_____	_____																																									
5. _____	_____	_____	_____																																									
6. _____	_____	_____	_____																																									
7. _____	_____	_____	_____																																									
	<u>0</u>	= Total Cover		Prevalence Index worksheet: <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 30%; text-align: left;">Total % Cover of:</th> <th style="width: 10%;"></th> <th style="width: 10%; text-align: left;">Multiply By:</th> <th style="width: 10%;"></th> <th style="width: 10%;"></th> </tr> </thead> <tbody> <tr><td>OBL species</td><td><u>0</u></td><td>x 1 =</td><td><u>0</u></td><td></td></tr> <tr><td>FACW species</td><td><u>0</u></td><td>x 2 =</td><td><u>0</u></td><td></td></tr> <tr><td>FAC species</td><td><u>0</u></td><td>x 3 =</td><td><u>0</u></td><td></td></tr> <tr><td>ACU species</td><td><u>0</u></td><td>x 4 =</td><td><u>0</u></td><td></td></tr> <tr><td>UPL species</td><td><u>20</u></td><td>x 5 =</td><td><u>100</u></td><td></td></tr> <tr><td>Column Totals</td><td><u>20</u></td><td>(A)</td><td><u>100</u></td><td>(B)</td></tr> <tr><td colspan="5">Prevalence Index = B/A = <u>5</u></td></tr> </tbody> </table>	Total % Cover of:		Multiply By:			OBL species	<u>0</u>	x 1 =	<u>0</u>		FACW species	<u>0</u>	x 2 =	<u>0</u>		FAC species	<u>0</u>	x 3 =	<u>0</u>		ACU species	<u>0</u>	x 4 =	<u>0</u>		UPL species	<u>20</u>	x 5 =	<u>100</u>		Column Totals	<u>20</u>	(A)	<u>100</u>	(B)	Prevalence Index = B/A = <u>5</u>				
Total % Cover of:		Multiply By:																																										
OBL species	<u>0</u>	x 1 =	<u>0</u>																																									
FACW species	<u>0</u>	x 2 =	<u>0</u>																																									
FAC species	<u>0</u>	x 3 =	<u>0</u>																																									
ACU species	<u>0</u>	x 4 =	<u>0</u>																																									
UPL species	<u>20</u>	x 5 =	<u>100</u>																																									
Column Totals	<u>20</u>	(A)	<u>100</u>	(B)																																								
Prevalence Index = B/A = <u>5</u>																																												
Sapling/Shrub Stratum (Plot size: <u>15 ft</u>)																																												
1. _____	_____	_____	_____																																									
2. _____	_____	_____	_____																																									
3. _____	_____	_____	_____																																									
4. _____	_____	_____	_____																																									
5. _____	_____	_____	_____																																									
6. _____	_____	_____	_____																																									
7. _____	_____	_____	_____																																									
	<u>0</u>	= Total Cover																																										
Herb Stratum (Plot size: <u>5 ft</u>)																																												
1. <i>Zea mays</i>	<u>20</u>	<u>Yes</u>	<u>UPL</u>																																									
2. _____	_____	_____	_____																																									
3. _____	_____	_____	_____																																									
4. _____	_____	_____	_____																																									
5. _____	_____	_____	_____																																									
6. _____	_____	_____	_____																																									
7. _____	_____	_____	_____																																									
8. _____	_____	_____	_____																																									
9. _____	_____	_____	_____																																									
10. _____	_____	_____	_____																																									
11. _____	_____	_____	_____																																									
12. _____	_____	_____	_____																																									
	<u>20</u>	= Total Cover																																										
Woody Vine Stratum (Plot size: <u>30 ft</u>)																																												
1. _____	_____	_____	_____																																									
2. _____	_____	_____	_____																																									
3. _____	_____	_____	_____																																									
4. _____	_____	_____	_____																																									
	<u>0</u>	= Total Cover																																										
Remarks: (Include photo numbers here or on a separate sheet.)																																												

SOIL

Sampling Point: W-NWJ-40; UPL-1

[illegible]

Hydrology Photos



Vegetation Photos



WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Trelina City/County: Ballston Lake, Saratoga Sampling Date: 2019-June-28
 Applicant/Owner: NextEra State: NY Sampling Point: W-NWJ-41; PEM-1
 Investigator(s): Nick DeJohn, Nate Jones Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none): Concave Slope (%): 0-1
 Subregion (LRR or MLRA): LRR L Lat: 42.871391 Long: -76.978455 Datum: WGS84
 Soil Map Unit Name: Odessa silt loam, 0 to 2 percent slopes NWI classification: _____
 Are climatic/hydrologic conditions on the site typical for this time of year? Yes ____ No ☒ (If no, explain in Remarks.)
 Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes ☒ No ____
 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?	Yes <input checked="" type="checkbox"/> No ____	
Hydric Soil Present?	Yes <input checked="" type="checkbox"/> No ____	Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No ____
Wetland Hydrology Present?	Yes <input checked="" type="checkbox"/> No ____	If yes, optional Wetland Site ID: <u>W-NWJ-41</u>
Remarks: (Explain alternative procedures here or in a separate report)		
<p>TRC coverype is PEM. Wetter than average year</p>		

HYDROLOGY

Wetland Hydrology Indicators:			
<u>Primary Indicators (minimum of one is required; check all that apply)</u>		<u>Secondary Indicators (minimum of two required)</u>	
<input checked="" type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)	
<input checked="" type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)	
<input checked="" type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)	<input type="checkbox"/> Moss Trim Lines (B16)	
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Dry-Season Water Table (C2)	
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Crayfish Burrows (C8)	
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)	
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Stunted or Stressed Plants (D1)	
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Geomorphic Position (D2)	
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)	
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<input type="checkbox"/> Microtopographic Relief (D4)	
		<input checked="" type="checkbox"/> FAC-Neutral Test (D5)	
Field Observations:			
Surface Water Present?	Yes <input checked="" type="checkbox"/> No ____	Depth (inches):	<u>2</u>
Water Table Present?	Yes <input checked="" type="checkbox"/> No ____	Depth (inches):	<u>0</u>
Saturation Present?	Yes <input checked="" type="checkbox"/> No ____	Depth (inches):	<u>0</u>
(includes capillary fringe)		Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No ____	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:			
Remarks:			

VEGETATION -- Use scientific names of plants.

Sampling Point: W-NWJ-41; PEM-1

Tree Stratum (Plot size: <u>30 ft</u>)	Absolute % Cover	Dominant Species?	Indicator Status																																									
1. _____	_____	_____	_____	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>3</u> (A) Total Number of Dominant Species Across All Strata: <u>3</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)																																								
2. _____	_____	_____	_____																																									
3. _____	_____	_____	_____																																									
4. _____	_____	_____	_____																																									
5. _____	_____	_____	_____																																									
6. _____	_____	_____	_____																																									
7. _____	_____	_____	_____																																									
	<u>0</u>	= Total Cover		Prevalence Index worksheet: <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 40%; text-align: left;">Total % Cover of:</th> <th style="width: 10%;"></th> <th style="width: 10%;">Multiply By:</th> <th style="width: 10%;"></th> <th style="width: 10%;"></th> </tr> </thead> <tbody> <tr><td>OBL species</td><td style="text-align: center;"><u>20</u></td><td>x 1 =</td><td style="text-align: center;"><u>20</u></td><td></td></tr> <tr><td>FACW species</td><td style="text-align: center;"><u>0</u></td><td>x 2 =</td><td style="text-align: center;"><u>0</u></td><td></td></tr> <tr><td>FAC species</td><td style="text-align: center;"><u>0</u></td><td>x 3 =</td><td style="text-align: center;"><u>0</u></td><td></td></tr> <tr><td>FACU species</td><td style="text-align: center;"><u>0</u></td><td>x 4 =</td><td style="text-align: center;"><u>0</u></td><td></td></tr> <tr><td>UPL species</td><td style="text-align: center;"><u>0</u></td><td>x 5 =</td><td style="text-align: center;"><u>0</u></td><td></td></tr> <tr><td>Column Totals</td><td style="text-align: center;"><u>20</u></td><td>(A)</td><td style="text-align: center;"><u>20</u></td><td>(B)</td></tr> <tr><td colspan="5">Prevalence Index = B/A = <u>1</u></td></tr> </tbody> </table>	Total % Cover of:		Multiply By:			OBL species	<u>20</u>	x 1 =	<u>20</u>		FACW species	<u>0</u>	x 2 =	<u>0</u>		FAC species	<u>0</u>	x 3 =	<u>0</u>		FACU species	<u>0</u>	x 4 =	<u>0</u>		UPL species	<u>0</u>	x 5 =	<u>0</u>		Column Totals	<u>20</u>	(A)	<u>20</u>	(B)	Prevalence Index = B/A = <u>1</u>				
Total % Cover of:		Multiply By:																																										
OBL species	<u>20</u>	x 1 =	<u>20</u>																																									
FACW species	<u>0</u>	x 2 =	<u>0</u>																																									
FAC species	<u>0</u>	x 3 =	<u>0</u>																																									
FACU species	<u>0</u>	x 4 =	<u>0</u>																																									
UPL species	<u>0</u>	x 5 =	<u>0</u>																																									
Column Totals	<u>20</u>	(A)	<u>20</u>	(B)																																								
Prevalence Index = B/A = <u>1</u>																																												
Sapling/Shrub Stratum (Plot size: <u>15 ft</u>)																																												
1. _____	_____	_____	_____																																									
2. _____	_____	_____	_____																																									
3. _____	_____	_____	_____																																									
4. _____	_____	_____	_____																																									
5. _____	_____	_____	_____																																									
6. _____	_____	_____	_____																																									
7. _____	_____	_____	_____																																									
	<u>0</u>	= Total Cover																																										
Herb Stratum (Plot size: <u>5 ft</u>)																																												
1. <i>Eleocharis palustris</i>	<u>10</u>	Yes	OBL																																									
2. <i>Typha latifolia</i>	<u>5</u>	Yes	OBL																																									
3. <i>Ranunculus sceleratus</i>	<u>5</u>	Yes	OBL																																									
4. _____	_____	_____	_____																																									
5. _____	_____	_____	_____																																									
6. _____	_____	_____	_____																																									
7. _____	_____	_____	_____																																									
8. _____	_____	_____	_____																																									
9. _____	_____	_____	_____																																									
10. _____	_____	_____	_____																																									
11. _____	_____	_____	_____																																									
12. _____	_____	_____	_____																																									
	<u>20</u>	= Total Cover																																										
Woody Vine Stratum (Plot size: <u>30 ft</u>)																																												
1. _____	_____	_____	_____																																									
2. _____	_____	_____	_____																																									
3. _____	_____	_____	_____																																									
4. _____	_____	_____	_____																																									
	<u>0</u>	= Total Cover																																										

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 at 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 size, and woody plants less than 3.28 ft tall.
Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? Yes ☒ No ☐

Remarks: (Include photo numbers here or on a separate sheet.)

Active agricultural field

SOIL

Sampling Point: W-NWJ-41; PEM-1

[illegible]

Hydrology Photos



Vegetation Photos



Soil Photos



WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Trelina City/County: Ballston Lake, Saratoga Sampling Date: 2019-June-28
 Applicant/Owner: NextEra State: NY Sampling Point: W-NWJ-41; PFO-1
 Investigator(s): Nick DeJohn, Nate Jones Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none): Concave Slope (%): 0-1
 Subregion (LRR or MLRA): LRR L Lat: 42.871523 Long: -76.979108 Datum: WGS84
 Soil Map Unit Name: Odessa silt loam, 0 to 2 percent slopes NWI classification: _____
 Are climatic/hydrologic conditions on the site typical for this time of year? Yes ____ No ✓ (If no, explain in Remarks.)
 Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes ✓ No ____
 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?	Yes <u>✓</u> No ____	
Hydric Soil Present?	Yes <u>✓</u> No ____	Is the Sampled Area within a Wetland? Yes <u>✓</u> No ____
Wetland Hydrology Present?	Yes <u>✓</u> No ____	If yes, optional Wetland Site ID: <u>W-NWJ-41</u>
Remarks: (Explain alternative procedures here or in a separate report)		
<p>TRC coverype is PFO. Wetter than average year</p>		

HYDROLOGY

Wetland Hydrology Indicators:		
<u>Primary Indicators (minimum of one is required; check all that apply)</u>		<u>Secondary Indicators (minimum of two required)</u>
<input type="checkbox"/> Surface Water (A1)	<input checked="" type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)
<input checked="" type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)
<input checked="" type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)	<input type="checkbox"/> Moss Trim Lines (B16)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Stunted or Stressed Plants (D1)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<input type="checkbox"/> Microtopographic Relief (D4)
		<input checked="" type="checkbox"/> FAC-Neutral Test (D5)
Field Observations:		
Surface Water Present?	Yes ____ No <u>✓</u>	Wetland Hydrology Present? Yes <u>✓</u> No ____
Water Table Present?	Yes <u>✓</u> No ____	
Saturation Present?	Yes <u>✓</u> No ____	
(includes capillary fringe)		
Depth (inches):		
Depth (inches):		<u>1</u>
Depth (inches):		<u>0</u>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:		
Remarks:		

VEGETATION -- Use scientific names of plants.

Sampling Point: W-NWJ-41; PFO-1

Tree Stratum (Plot size: <u>30 ft</u>)				Dominance Test worksheet:	
	Absolute % Cover	Dominant Species?	Indicator Status		
1. <i>Fraxinus pennsylvanica</i>	25	Yes	FACW	Number of Dominant Species That Are OBL, FACW, or FAC:	6 (A)
2. <i>Acer rubrum</i>	15	Yes	FAC	Total Number of Dominant Species Across All Strata:	7 (B)
3. <i>Populus tremuloides</i>	10	Yes	FACU	Percent of Dominant Species That Are OBL, FACW, or FAC:	85.7 (A/B)
4. _____	_____	_____	_____		
5. _____	_____	_____	_____		
6. _____	_____	_____	_____		
7. _____	_____	_____	_____		
	50	= Total Cover			
Sapling/Shrub Stratum (Plot size: <u>15 ft</u>)				Prevalence Index worksheet:	
	Absolute % Cover	Dominant Species?	Indicator Status	Total % Cover of:	Multiply By:
1. <i>Rhamnus cathartica</i>	15	Yes	FAC	OBL species	20 x 1 = 20
2. _____	_____	_____	_____	FACW species	33 x 2 = 66
3. _____	_____	_____	_____	FAC species	40 x 3 = 120
4. _____	_____	_____	_____	FACU species	10 x 4 = 40
5. _____	_____	_____	_____	UPL species	0 x 5 = 0
6. _____	_____	_____	_____	Column Totals	103 (A) 246 (B)
7. _____	_____	_____	_____	Prevalence Index = B/A = 2.4	
	15	= Total Cover			
Herb Stratum (Plot size: <u>5 ft</u>)				Hydrophytic Vegetation Indicators:	
	Absolute % Cover	Dominant Species?	Indicator Status		
1. <i>Carex stipata</i>	20	Yes	OBL	____ 1- Rapid Test for Hydrophytic Vegetation	
2. <i>Toxicodendron radicans</i>	10	Yes	FAC	<input checked="" type="checkbox"/> 2 - Dominance Test is >50%	
3. <i>Fraxinus pennsylvanica</i>	8	Yes	FACW	<input checked="" type="checkbox"/> 3 - Prevalence Index is ≤ 3.0 ¹	
4. _____	_____	_____	_____	____ 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)	
5. _____	_____	_____	_____	____ Problematic Hydrophytic Vegetation ¹ (Explain)	
6. _____	_____	_____	_____	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic	
7. _____	_____	_____	_____		
8. _____	_____	_____	_____		
9. _____	_____	_____	_____		
10. _____	_____	_____	_____		
11. _____	_____	_____	_____		
12. _____	_____	_____	_____		
	38	= Total Cover			
Woody Vine Stratum (Plot size: <u>30 ft</u>)				Definitions of Vegetation Strata:	
	Absolute % Cover	Dominant Species?	Indicator Status		
1. _____	_____	_____	_____	Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.	
2. _____	_____	_____	_____	Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.	
3. _____	_____	_____	_____	Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.	
4. _____	_____	_____	_____	Woody vines – All woody vines greater than 3.28 ft in height.	
	0	= Total Cover		Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No _____	

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: W-NWJ-41; PFO-1

[illegible]

Hydrology Photos



Vegetation Photos



Soil Photos



WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Trelina City/County: Ballston Lake, Saratoga Sampling Date: 2019-June-28
 Applicant/Owner: NextEra State: NY Sampling Point: W-NWJ-41; UPL-1
 Investigator(s): Nick DeJohn, Nate Jones Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): Agricultural Field Local relief (concave, convex, none): Flat Slope (%): 0-1
 Subregion (LRR or MLRA): LRR L Lat: 42.871039 Long: -76.979206 Datum: WGS84
 Soil Map Unit Name: Odessa silt loam, 0 to 2 percent slopes NWI classification: _____
 Are climatic/hydrologic conditions on the site typical for this time of year? Yes ____ No ✓ (If no, explain in Remarks.)
 Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes ✓ No ____
 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?	Yes ____ No <u>✓</u>	
Hydric Soil Present?	Yes ____ No <u>✓</u>	Is the Sampled Area within a Wetland? Yes ____ No <u>✓</u>
Wetland Hydrology Present?	Yes ____ No <u>✓</u>	If yes, optional Wetland Site ID: _____
Remarks: (Explain alternative procedures here or in a separate report)		
TRC coverype is UPL. Recent rain		

HYDROLOGY

Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply)			Secondary Indicators (minimum of two required)		
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)			
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)			
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)	<input type="checkbox"/> Moss Trim Lines (B16)			
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Dry-Season Water Table (C2)			
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Crayfish Burrows (C8)			
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)			
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Stunted or Stressed Plants (D1)			
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Geomorphic Position (D2)			
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)			
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<input type="checkbox"/> Microtopographic Relief (D4)			
		<input type="checkbox"/> FAC-Neutral Test (D5)			
Field Observations:					
Surface Water Present?	Yes ____ No <u>✓</u>	Depth (inches): _____	Wetland Hydrology Present? Yes ____ No <u>✓</u>		
Water Table Present?	Yes ____ No <u>✓</u>	Depth (inches): _____			
Saturation Present?	Yes ____ No <u>✓</u>	Depth (inches): _____			
(includes capillary fringe)					
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:					
Remarks:					

Sampling Point: W-NWJ-41; UPL-1

US Army Corps of Engineers

SOIL

Sampling Point: W-NWJ-41; UPL-1

[illegible]

Hydrology Photos



Vegetation Photos



Soil Photos



WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Trelina City/County: Clifton Park, Saratoga Sampling Date: 2019-July-28
 Applicant/Owner: NextEra State: NY Sampling Point: W-NWJ-42; PEM-1
 Investigator(s): Nick DeJohn, Nate Jones Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none): Concave Slope (%): 0-1
 Subregion (LRR or MLRA): LRR L Lat: 42.871405 Long: -76.977872 Datum: WGS84
 Soil Map Unit Name: Claverack loamy fine sand, 0 to 2 percent slopes NWI classification: _____
 Are climatic/hydrologic conditions on the site typical for this time of year? Yes ____ No ☒ (If no, explain in Remarks.)
 Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes ☒ No ____
 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?	Yes <input checked="" type="checkbox"/> No ____	Is the Sampled Area within a Wetland?	Yes <input checked="" type="checkbox"/> No ____
Hydric Soil Present?	Yes <input checked="" type="checkbox"/> No ____	If yes, optional Wetland Site ID:	W-NWJ-42
Wetland Hydrology Present?	Yes <input checked="" type="checkbox"/> No ____		
Remarks: (Explain alternative procedures here or in a separate report)			
TRC coverype is PEM. Wetter than average year			

HYDROLOGY

Wetland Hydrology Indicators:		
Primary Indicators (minimum of one is required; check all that apply)		Secondary Indicators (minimum of two required)
<input checked="" type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)
<input checked="" type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)
<input checked="" type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)	<input type="checkbox"/> Moss Trim Lines (B16)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Stunted or Stressed Plants (D1)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<input type="checkbox"/> Microtopographic Relief (D4)
		<input checked="" type="checkbox"/> FAC-Neutral Test (D5)
Field Observations:		
Surface Water Present?	Yes <input checked="" type="checkbox"/> No ____	Depth (inches): <u>2</u>
Water Table Present?	Yes <input checked="" type="checkbox"/> No ____	Depth (inches): <u>0</u>
Saturation Present?	Yes <input checked="" type="checkbox"/> No ____	Depth (inches): <u>0</u>
(includes capillary fringe)		Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No ____
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:		
Remarks:		

VEGETATION -- Use scientific names of plants.

Sampling Point: W-NWJ-42; PEM-1

Tree Stratum (Plot size: <u>30 ft</u>)	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
	0	= Total Cover		
Sapling/Shrub Stratum (Plot size: <u>15 ft</u>)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
	0	= Total Cover		
Herb Stratum (Plot size: <u>5 ft</u>)				
1. <i>Carex stipata</i>	25	Yes	OBL	
2. <i>Eleocharis palustris</i>	15	Yes	OBL	
3. <i>Fraxinus pennsylvanica</i>	2	No	FACW	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
11. _____	_____	_____	_____	
12. _____	_____	_____	_____	
	42	= Total Cover		
Woody Vine Stratum (Plot size: <u>30 ft</u>)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
	0	= Total Cover		

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)

Total Number of Dominant Species Across All Strata: 2 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply By:
OBL species 40	x 1 = 40
FACW species 2	x 2 = 4
FAC species 0	x 3 = 0
FACU species 0	x 4 = 0
UPL species 0	x 5 = 0
Column Totals 42 (A)	44 (B)
Prevalence Index = B/A = 1	

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 at 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 size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? Yes ☒ No ____

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: W-NWJ-42; PEM-1

[illegible]

Hydrology Photos



Vegetation Photos



WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Trelina City/County: Clifton Park, Saratoga Sampling Date: 2019-June-28
 Applicant/Owner: NextEra State: NY Sampling Point: W-NWJ-42; PFO-1
 Investigator(s): Nick DeJohn, Nate Jones Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none): Concave Slope (%): 0-1
 Subregion (LRR or MLRA): LRR L Lat: 42.870827 Long: -76.979301 Datum: WGS84
 Soil Map Unit Name: Claverack loamy fine sand, 0 to 2 percent slopes NWI classification: _____
 Are climatic/hydrologic conditions on the site typical for this time of year? Yes ____ No ☒ (If no, explain in Remarks.)
 Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes ☒ No ____
 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?	Yes <input checked="" type="checkbox"/> No ____	
Hydric Soil Present?	Yes <input checked="" type="checkbox"/> No ____	Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No ____
Wetland Hydrology Present?	Yes <input checked="" type="checkbox"/> No ____	If yes, optional Wetland Site ID: <u>W-NWJ-42</u>
Remarks: (Explain alternative procedures here or in a separate report) TRC coverype is PFO. Wetter than average year		

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u>			<u>Secondary Indicators (minimum of two required)</u>		
<input checked="" type="checkbox"/> Surface Water (A1)	<input checked="" type="checkbox"/> Water-Stained Leaves (B9)		<input type="checkbox"/> Surface Soil Cracks (B6)		
<input checked="" type="checkbox"/> High Water Table (A2)	<input checked="" type="checkbox"/> Aquatic Fauna (B13)		<input type="checkbox"/> Drainage Patterns (B10)		
<input checked="" type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)		<input type="checkbox"/> Moss Trim Lines (B16)		
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)		<input type="checkbox"/> Dry-Season Water Table (C2)		
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)		<input type="checkbox"/> Crayfish Burrows (C8)		
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)		<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)		
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)		<input type="checkbox"/> Stunted or Stressed Plants (D1)		
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)		<input type="checkbox"/> Geomorphic Position (D2)		
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)		<input type="checkbox"/> Shallow Aquitard (D3)		
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)			<input type="checkbox"/> Microtopographic Relief (D4)		
			<input checked="" type="checkbox"/> FAC-Neutral Test (D5)		
Field Observations: Surface Water Present? Yes <input checked="" type="checkbox"/> No ____ Depth (inches): <u>6</u> Water Table Present? Yes <input checked="" type="checkbox"/> No ____ Depth (inches): <u>0</u> Saturation Present? Yes <input checked="" type="checkbox"/> No ____ Depth (inches): <u>0</u> (includes capillary fringe)			Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No ____		
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:					
Remarks:					

VEGETATION -- Use scientific names of plants.

Sampling Point: W-NWJ-42; PFO-1

Tree Stratum (Plot size: <u>30 ft</u>)				Dominance Test worksheet:			
	Absolute % Cover	Dominant Species?	Indicator Status				
1. <i>Fraxinus pennsylvanica</i>	40	Yes	FACW	Number of Dominant Species That Are OBL, FACW, or FAC:			2 (A)
2. <i>Acer rubrum</i>	25	Yes	FAC	Total Number of Dominant Species Across All Strata:			2 (B)
3. _____	_____	_____	_____	Percent of Dominant Species That Are OBL, FACW, or FAC:			100 (A/B)
4. _____	_____	_____	_____	Prevalence Index worksheet:			
5. _____	_____	_____	_____	Total % Cover of:		Multiply By:	
6. _____	_____	_____	_____	OBL species	0	x 1 =	0
7. _____	_____	_____	_____	FACW species	40	x 2 =	80
	65	= Total Cover		FAC species	25	x 3 =	75
Sapling/Shrub Stratum (Plot size: <u>15 ft</u>)				FACU species	0	x 4 =	0
1. _____	_____	_____	_____	UPL species	0	x 5 =	0
2. _____	_____	_____	_____	Column Totals	65	(A)	155 (B)
3. _____	_____	_____	_____	Prevalence Index = B/A = <u>2.4</u>			
4. _____	_____	_____	_____	Hydrophytic Vegetation Indicators:			
5. _____	_____	_____	_____	____ 1- Rapid Test for Hydrophytic Vegetation			
6. _____	_____	_____	_____	<input checked="" type="checkbox"/> 2 - Dominance Test is >50%			
7. _____	_____	_____	_____	<input checked="" type="checkbox"/> 3 - Prevalence Index is ≤ 3.0 ¹			
	0	= Total Cover		____ 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)			
Herb Stratum (Plot size: <u>5 ft</u>)				____ Problematic Hydrophytic Vegetation ¹ (Explain)			
1. _____	_____	_____	_____	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic			
2. _____	_____	_____	_____	Definitions of Vegetation Strata:			
3. _____	_____	_____	_____	Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.			
4. _____	_____	_____	_____	Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.			
5. _____	_____	_____	_____	Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.			
6. _____	_____	_____	_____	Woody vines – All woody vines greater than 3.28 ft in height.			
7. _____	_____	_____	_____	Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No _____			
8. _____	_____	_____	_____				
9. _____	_____	_____	_____				
10. _____	_____	_____	_____				
11. _____	_____	_____	_____				
12. _____	_____	_____	_____				
	0	= Total Cover					
Woody Vine Stratum (Plot size: <u>30 ft</u>)							
1. _____	_____	_____	_____				
2. _____	_____	_____	_____				
3. _____	_____	_____	_____				
4. _____	_____	_____	_____				
	0	= Total Cover					
Remarks: (Include photo numbers here or on a separate sheet.)							

SOIL

Sampling Point: W-NWJ-42; PFO-1

[illegible]

Hydrology Photos



Vegetation Photos



WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Trelina City/County: Clifton Park, Saratoga Sampling Date: 2019-June-28
 Applicant/Owner: NextEra State: NY Sampling Point: W-NWJ-42; UPL-1
 Investigator(s): Nick DeJohn, Nate Jones Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): Agricultural Field Local relief (concave, convex, none): Flat Slope (%): 0-1
 Subregion (LRR or MLRA): LRR L Lat: 42.870623 Long: -76.979216 Datum: WGS84
 Soil Map Unit Name: Claverack loamy fine sand, 0 to 2 percent slopes NWI classification: _____
 Are climatic/hydrologic conditions on the site typical for this time of year? Yes ____ No ✓ (If no, explain in Remarks.)
 Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes ✓ No ____
 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?	Yes ____ No <u>✓</u>	
Hydric Soil Present?	Yes ____ No <u>✓</u>	Is the Sampled Area within a Wetland? Yes ____ No <u>✓</u>
Wetland Hydrology Present?	Yes ____ No <u>✓</u>	If yes, optional Wetland Site ID: _____
Remarks: (Explain alternative procedures here or in a separate report)		
<p>TRC coverype is UPL. Wetter than average year</p>		

HYDROLOGY

Wetland Hydrology Indicators:		
Primary Indicators (minimum of one is required; check all that apply)		Secondary Indicators (minimum of two required)
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)	<input type="checkbox"/> Moss Trim Lines (B16)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Stunted or Stressed Plants (D1)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<input type="checkbox"/> Microtopographic Relief (D4)
		<input type="checkbox"/> FAC-Neutral Test (D5)
Field Observations:		
Surface Water Present? Yes ____ No <u>✓</u>	Depth (inches): _____	Wetland Hydrology Present? Yes ____ No <u>✓</u>
Water Table Present? Yes ____ No <u>✓</u>	Depth (inches): _____	
Saturation Present? Yes ____ No <u>✓</u>	Depth (inches): _____	
(includes capillary fringe)		
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:		
Remarks:		

VEGETATION -- Use scientific names of plants.

Sampling Point: W-NWJ-42; UPL-1

Tree Stratum (Plot size: <u>30 ft</u>)	Absolute % Cover	Dominant Species?	Indicator Status																																									
1. _____	_____	_____	_____	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A/B)																																								
2. _____	_____	_____	_____																																									
3. _____	_____	_____	_____																																									
4. _____	_____	_____	_____																																									
5. _____	_____	_____	_____																																									
6. _____	_____	_____	_____																																									
7. _____	_____	_____	_____																																									
	<u>0</u>	= Total Cover		Prevalence Index worksheet: <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 30%; text-align: left;">Total % Cover of:</th> <th style="width: 10%;"></th> <th style="width: 10%; text-align: left;">Multiply By:</th> <th style="width: 10%;"></th> <th style="width: 10%;"></th> </tr> </thead> <tbody> <tr><td>OBL species</td><td><u>0</u></td><td>x 1 =</td><td><u>0</u></td><td></td></tr> <tr><td>FACW species</td><td><u>0</u></td><td>x 2 =</td><td><u>0</u></td><td></td></tr> <tr><td>FAC species</td><td><u>0</u></td><td>x 3 =</td><td><u>0</u></td><td></td></tr> <tr><td>FACU species</td><td><u>0</u></td><td>x 4 =</td><td><u>0</u></td><td></td></tr> <tr><td>UPL species</td><td><u>0</u></td><td>x 5 =</td><td><u>0</u></td><td></td></tr> <tr><td>Column Totals</td><td><u>0</u></td><td>(A)</td><td><u>0</u></td><td>(B)</td></tr> <tr><td colspan="5">Prevalence Index = B/A = _____</td></tr> </tbody> </table>	Total % Cover of:		Multiply By:			OBL species	<u>0</u>	x 1 =	<u>0</u>		FACW species	<u>0</u>	x 2 =	<u>0</u>		FAC species	<u>0</u>	x 3 =	<u>0</u>		FACU species	<u>0</u>	x 4 =	<u>0</u>		UPL species	<u>0</u>	x 5 =	<u>0</u>		Column Totals	<u>0</u>	(A)	<u>0</u>	(B)	Prevalence Index = B/A = _____				
Total % Cover of:		Multiply By:																																										
OBL species	<u>0</u>	x 1 =	<u>0</u>																																									
FACW species	<u>0</u>	x 2 =	<u>0</u>																																									
FAC species	<u>0</u>	x 3 =	<u>0</u>																																									
FACU species	<u>0</u>	x 4 =	<u>0</u>																																									
UPL species	<u>0</u>	x 5 =	<u>0</u>																																									
Column Totals	<u>0</u>	(A)	<u>0</u>	(B)																																								
Prevalence Index = B/A = _____																																												
Sapling/Shrub Stratum (Plot size: <u>15 ft</u>)																																												
1. _____	_____	_____	_____																																									
2. _____	_____	_____	_____																																									
3. _____	_____	_____	_____																																									
4. _____	_____	_____	_____																																									
5. _____	_____	_____	_____																																									
6. _____	_____	_____	_____																																									
7. _____	_____	_____	_____																																									
	<u>0</u>	= Total Cover																																										
Herb Stratum (Plot size: <u>5 ft</u>)																																												
1. <i>Glycine max</i>	<u>28</u>	<u>Yes</u>	<u>NI</u>																																									
2. _____	_____	_____	_____																																									
3. _____	_____	_____	_____																																									
4. _____	_____	_____	_____																																									
5. _____	_____	_____	_____																																									
6. _____	_____	_____	_____																																									
7. _____	_____	_____	_____																																									
8. _____	_____	_____	_____																																									
9. _____	_____	_____	_____																																									
10. _____	_____	_____	_____																																									
11. _____	_____	_____	_____																																									
12. _____	_____	_____	_____																																									
	<u>28</u>	= Total Cover																																										
Woody Vine Stratum (Plot size: <u>30 ft</u>)																																												
1. _____	_____	_____	_____																																									
2. _____	_____	_____	_____																																									
3. _____	_____	_____	_____																																									
4. _____	_____	_____	_____																																									
	<u>0</u>	= Total Cover																																										
Remarks: (Include photo numbers here or on a separate sheet.)																																												

SOIL

Sampling Point: W-NWJ-42; UPL-1

[illegible]

Hydrology Photos



Vegetation Photos



WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Trelina City/County: Clifton Park, Saratoga Sampling Date: 2019-July-28
 Applicant/Owner: NextEra State: NY Sampling Point: W-NWJ-43; UPL-1
 Investigator(s): Nick DeJohn, Nate Jones Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): Agricultural Field Local relief (concave, convex, none): Flat Slope (%): 0-1
 Subregion (LRR or MLRA): LRR L Lat: 42.870573 Long: -76.979469 Datum: WGS84
 Soil Map Unit Name: Schoharie silt loam, 2 to 6 percent slopes NWI classification: _____
 Are climatic/hydrologic conditions on the site typical for this time of year? Yes ____ No ✓ (If no, explain in Remarks.)
 Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes ✓ No ____
 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?	Yes ____ No <u>✓</u>	
Hydric Soil Present?	Yes ____ No <u>✓</u>	Is the Sampled Area within a Wetland? Yes ____ No <u>✓</u>
Wetland Hydrology Present?	Yes ____ No <u>✓</u>	If yes, optional Wetland Site ID: _____
Remarks: (Explain alternative procedures here or in a separate report) TRC coverype is UPL. Wetter than average year		

HYDROLOGY

Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply)			Secondary Indicators (minimum of two required)		
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)			
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)			
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)	<input type="checkbox"/> Moss Trim Lines (B16)			
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Dry-Season Water Table (C2)			
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Crayfish Burrows (C8)			
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)			
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Stunted or Stressed Plants (D1)			
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Geomorphic Position (D2)			
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)			
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<input type="checkbox"/> Microtopographic Relief (D4)			
		<input type="checkbox"/> FAC-Neutral Test (D5)			
Field Observations:					
Surface Water Present?	Yes ____ No <u>✓</u>	Depth (inches): _____	Wetland Hydrology Present? Yes ____ No <u>✓</u>		
Water Table Present?	Yes ____ No <u>✓</u>	Depth (inches): _____			
Saturation Present?	Yes ____ No <u>✓</u>	Depth (inches): _____			
(includes capillary fringe)					
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:					
Remarks:					

Sampling Point: W-NWJ-43; UPL-1

Tree Stratum (Plot size: <u>30 ft</u>)			Absolute % Cover	Dominant Species?	Indicator Status
1.					
2.					
3.					
4.					
5.					
6.					
7.					
			0	= Total Cover	
Sapling/Shrub Stratum (Plot size: <u>15 ft</u>)					
1.					
2.					
3.					
4.					
5.					
6.					
7.					
			0	= Total Cover	
Herb Stratum (Plot size: <u>5 ft</u>)					
1.	<i>Glycine max</i>		20	Yes	NI
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
			20	= Total Cover	
Woody Vine Stratum (Plot size: <u>30 ft</u>)					
1.					
2.					
3.					
4.					
			0	= Total Cover	

Remarks: (Include photo numbers here or on a separate sheet.)

Active agricultural field

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC:	0	(A)
Total Number of Dominant Species Across All Strata:	1	(B)
Percent of Dominant Species That Are OBL, FACW, or FAC:	0	(A/B)

Prevalence Index worksheet:

<u>Total % Cover of:</u>	<u>Multiply By:</u>
OBL species 0	x 1 = 0
FACW species 0	x 2 = 0
FAC species 0	x 3 = 0
FACU species 0	x 4 = 0
UPL species 0	x 5 = 0
Column Totals 0	(A) 0 (B)

Prevalence Index = B/A =

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 at 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 size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? Yes ☐ No ☒

SOIL

Sampling Point: W-NWJ-43; UPL-1

[illegible]

Vegetation Photos



WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Trelina City/County: Clifton Park, Saratoga Sampling Date: 2019-June-28
 Applicant/Owner: NextEra State: NY Sampling Point: W-NWJ-43; PEM-1
 Investigator(s): Nick DeJohn, Nate Jones Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none): Concave Slope (%): 0-1
 Subregion (LRR or MLRA): LRR L Lat: 42.870533 Long: -76.979582 Datum: WGS84
 Soil Map Unit Name: Schoharie silt loam, 2 to 6 percent slopes NWI classification: _____
 Are climatic/hydrologic conditions on the site typical for this time of year? Yes ____ No ☒ (If no, explain in Remarks.)
 Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes ☒ No ____
 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?	Yes <input checked="" type="checkbox"/> No ____	
Hydric Soil Present?	Yes <input checked="" type="checkbox"/> No ____	Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No ____
Wetland Hydrology Present?	Yes <input checked="" type="checkbox"/> No ____	If yes, optional Wetland Site ID: <u>W-NWJ-43</u>
Remarks: (Explain alternative procedures here or in a separate report) TRC coverype is PEM. Wetter than average year		

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u>				<u>Secondary Indicators (minimum of two required)</u>	
<input checked="" type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)			
<input checked="" type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)			
<input checked="" type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)	<input type="checkbox"/> Moss Trim Lines (B16)			
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Dry-Season Water Table (C2)			
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Crayfish Burrows (C8)			
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)			
<input checked="" type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Stunted or Stressed Plants (D1)			
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Geomorphic Position (D2)			
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)			
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<input type="checkbox"/> Microtopographic Relief (D4)			
		<input checked="" type="checkbox"/> FAC-Neutral Test (D5)			
Field Observations:					
Surface Water Present?	Yes <input checked="" type="checkbox"/> No ____	Depth (inches):	<u>2</u>	Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No ____	
Water Table Present?	Yes <input checked="" type="checkbox"/> No ____	Depth (inches):	<u>0</u>		
Saturation Present?	Yes <input checked="" type="checkbox"/> No ____	Depth (inches):	<u>0</u>		
(includes capillary fringe)					
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:					
Remarks:					

Sampling Point: W-NWJ-43; PEM-1

Tree Stratum (Plot size: 30 ft)			Absolute % Cover	Dominant Species?	Indicator Status
1.					
2.					
3.					
4.					
5.					
6.					
7.					
			0	= Total Cover	
Sapling/Shrub Stratum (Plot size: 15 ft)			Absolute % Cover	Dominant Species?	Indicator Status
1.					
2.					
3.					
4.					
5.					
6.					
7.					
			0	= Total Cover	
Herb Stratum (Plot size: 5 ft)			Absolute % Cover	Dominant Species?	Indicator Status
1.	<i>Typha latifolia</i>		15	Yes	OBL
2.	<i>Eleocharis palustris</i>		10	Yes	OBL
3.	<i>Ranunculus sceleratus</i>		10	Yes	OBL
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
			35	= Total Cover	
Woody Vine Stratum (Plot size: 30 ft)			Absolute % Cover	Dominant Species?	Indicator Status
1.					
2.					
3.					
4.					
			0	= Total Cover	

Remarks: (Include photo numbers here or on a separate sheet.)

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 3 (A)

Total Number of Dominant Species Across All Strata: 3 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply By:
OBL species 35	x 1 = 35
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 35	(A) 35 (B)
Prevalence Index = B/A = 1	

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 at 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 size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? Yes ☒ No ☐

SOIL

Sampling Point: W-NWJ-43; PEM-1

[illegible]

Hydrology Photos



Vegetation Photos



Soil Photos



WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Trelina City/County: Waterloo, Seneca County Sampling Date: 2019-June-21
 Applicant/Owner: Trelina State: New York Sampling Point: W-WSH-01_UPL-1
 Investigator(s): Weston Hillegas, Isaac Pallant Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): Flat Local relief (concave, convex, 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 sandy loam (Lf) NWI classification: None
 Are climatic/hydrologic conditions on the site typical for this time of year? Yes ____ No ✓ (If no, explain in Remarks.)
 Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes ____ No ✓
 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?	Yes ____ No <u>✓</u>	
Hydric Soil Present?	Yes ____ No <u>✓</u>	Is the Sampled Area within a Wetland? Yes ____ No <u>✓</u>
Wetland Hydrology Present?	Yes ____ No <u>✓</u>	If yes, optional Wetland Site ID: _____
Remarks: (Explain alternative procedures here or in a separate report) Covertypes is UPL. Area is upland, not all three wetland parameters are present. Wetter than average year.		

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u>			<u>Secondary Indicators (minimum of two required)</u>		
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)			
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)			
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)	<input type="checkbox"/> Moss Trim Lines (B16)			
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Dry-Season Water Table (C2)			
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Crayfish Burrows (C8)			
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)			
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Stunted or Stressed Plants (D1)			
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Geomorphic Position (D2)			
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)			
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<input type="checkbox"/> Microtopographic Relief (D4)			
		<input type="checkbox"/> FAC-Neutral Test (D5)			
Field Observations:					
Surface Water Present?	Yes ____ No <u>✓</u>	Depth (inches): _____	Wetland Hydrology Present? Yes ____ No <u>✓</u>		
Water Table Present?	Yes <u>✓</u> No ____	Depth (inches): <u>19</u>			
Saturation Present?	Yes <u>✓</u> No ____	Depth (inches): <u>18</u>			
(includes capillary fringe)					
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:					
Remarks: No positive indication of wetland hydrology was observed.					

VEGETATION -- Use scientific names of plants.

Sampling Point: W-WSH-01 UPL-1

Tree Stratum (Plot size: <u>30 ft</u>)	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
	0	= Total Cover		
Sapling/Shrub Stratum (Plot size: <u>15 ft</u>)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
	0	= Total Cover		
Herb Stratum (Plot size: <u>5 ft</u>)				
1. <i>Trifolium repens</i>	60	Yes	FACU	
2. <i>Equisetum arvense</i>	25	Yes	FAC	
3. <i>Erigeron annuus</i>	15	No	FACU	
4. <i>Solidago canadensis</i>	15	No	FACU	
5. <i>Carex vulpinoidea</i>	4	No	OBL	
6. <i>Phragmites australis</i>	3	No	FACW	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
11. _____	_____	_____	_____	
12. _____	_____	_____	_____	
	122	= Total Cover		
Woody Vine Stratum (Plot size: <u>30 ft</u>)				
1. <i>Vitis labrusca</i>	3	No	FACU	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
	3	= Total Cover		

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)

Total Number of Dominant Species Across All Strata: 2 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 50 (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply By:
OBL species 4	x 1 = 4
FACW species 3	x 2 = 6
FAC species 25	x 3 = 75
FACU species 93	x 4 = 372
UPL species 0	x 5 = 0
Column Totals 125	(A) 457 (B)

Prevalence Index = B/A = 3.7

Hydrophytic Vegetation Indicators:

____ 1- Rapid Test for Hydrophytic Vegetation

____ 2 - Dominance Test is > 50%

____ 3 - Prevalence Index is ≤ 3.0¹

____ 4 - Morphological Adaptations¹ (Provide 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 at 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 size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? Yes ____ No ✓

Remarks: (Include photo numbers here or on a separate sheet.)

Disturbed area along CSX RR Tracks.

SOIL

Sampling Point: W-WSH-01 UPL-1

[illegible]

Vegetation Photos



Soil Photos



WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Trelina City/County: Waterloo, Seneca County Sampling Date: 2019-June-21
 Applicant/Owner: Trelina State: New 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, convex, none): Concave Slope (%): 1 to 3
 Subregion (LRR or MLRA): LRR L Lat: 42.889647 Long: -76.928662 Datum: WGS84
 Soil Map Unit Name: Lamson fine sandy loam and Mucky fine sandy loam (Lf) NWI classification: PSS
 Are climatic/hydrologic conditions on the site typical for this time of year? Yes ____ No ✓ (If no, explain in Remarks.)
 Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes ____ No ✓
 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?	Yes <u>✓</u> No ____	
Hydric Soil Present?	Yes <u>✓</u> No ____	Is the Sampled Area within a Wetland? Yes <u>✓</u> No ____
Wetland Hydrology Present?	Yes <u>✓</u> No ____	If yes, optional Wetland Site ID: W-WSH-01
Remarks: (Explain alternative procedures here or in a separate report) Covertypes is PEM. Area is wetland, all three wetland parameters are present. Wetter than average year.		

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u>				<u>Secondary Indicators (minimum of two required)</u>	
<input checked="" type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)			
<input checked="" type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)			
<input checked="" type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)	<input type="checkbox"/> Moss Trim Lines (B16)			
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Dry-Season Water Table (C2)			
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Crayfish Burrows (C8)			
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)			
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input checked="" type="checkbox"/> Stunted or Stressed Plants (D1)			
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input checked="" type="checkbox"/> Geomorphic Position (D2)			
<input checked="" type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)			
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<input type="checkbox"/> Microtopographic Relief (D4)			
		<input checked="" type="checkbox"/> FAC-Neutral Test (D5)			
Field Observations:					
Surface Water Present?	Yes <u>✓</u> No ____	Depth (inches):	<u>1</u>	Wetland Hydrology Present? Yes <u>✓</u> No ____	
Water Table Present?	Yes <u>✓</u> No ____	Depth (inches):	<u>9</u>		
Saturation Present?	Yes <u>✓</u> No ____	Depth (inches):	<u>0</u>		
(includes capillary fringe)					
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:					
Remarks: The criterion for wetland hydrology is met.					

VEGETATION -- Use scientific names of plants.

Sampling Point: W-WSH-01_PEM-1

Tree Stratum (Plot size: <u>30 ft</u>)	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
	0	= Total Cover		
Sapling/Shrub Stratum (Plot size: <u>15 ft</u>)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
	0	= Total Cover		
Herb Stratum (Plot size: <u>5 ft</u>)				
1. <i>Phragmites australis</i>	40	Yes	FACW	
2. <i>Scirpus atrovirens</i>	35	Yes	OBL	
3. <i>Carex vulpinoidea</i>	25	Yes	OBL	
4. <i>Juncus tenuis</i>	15	No	FAC	
5. <i>Carex stipata</i>	15	No	OBL	
6. <i>Carex lurida</i>	10	No	OBL	
7. <i>Eupatorium perfoliatum</i>	10	No	FACW	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
11. _____	_____	_____	_____	
12. _____	_____	_____	_____	
	150	= Total Cover		
Woody Vine Stratum (Plot size: <u>30 ft</u>)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
	0	= Total Cover		

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 3 (A)

Total Number of Dominant Species Across All Strata: 3 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply By:
OBL species	85 x 1 = 85
FACW species	50 x 2 = 100
FAC species	15 x 3 = 45
FACU species	0 x 4 = 0
UPL species	0 x 5 = 0
Column Totals	150 (A) 230 (B)
Prevalence Index = B/A = 1.5	

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 at 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 size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? Yes ☒ No ____

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: W-WSH-01 PEM-1

[illegible]

Hydrology Photos



Vegetation Photos



Soil 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 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 7.2 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 (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.