

WETLAND AND STREAM DELINEATION REPORT TRELINA SOLAR ENERGY CENTER PROJECT

**TOWN OF WATERLOO SENECA
COUNTY, NEW YORK**

**Part 1 of 2
(Pages 1 - 440)**

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1.0 INTRODUCTION

1.1 Project Description and Purpose

Trelina Solar Energy Center, LLC (Trelina Solar Energy Center), a wholly-owned indirect subsidiary of NextEra Energy Resources, LLC (NextEra or NEER), is proposing construction of the Trelina Solar Energy Center Project (the Project) in the Town of Waterloo, Seneca County, New York (see Appendix A: Figure 1). The Project Area consists of 22 separate tax parcels totaling approximately 1,067.26 acres within the Town of Waterloo. The proposed Project will consist of an 80 megawatt (MW) solar energy center located on land leased from owners of private property. Proposed components include commercial-scale solar arrays, access roads, inverters, fencing, buried (and possibly overhead) electric collection lines, and electrical interconnection facilities. The final solar array specification, as well as locations of arrays, will be finalized as part of ongoing environmental studies and engineering efforts. The Project Area consists predominantly of active and non-active agricultural land, and some forested lots.

1.2 Report Purpose

TRC Companies, Inc. (TRC) conducted a wetland and stream delineation of the Project Area on behalf of Trelina Solar Energy Center on June 24, 2019 to June 28, 2019; July 8, 2019 to July 11, 2019; and July 23, 2019 to July 25, 2019. This report details the wetlands and surface waters (including rivers, streams, ponds, and lakes) identified, regardless of jurisdictional status. However, this report's description of potential jurisdictional areas to regulatory agencies lends itself toward assessing regulated buffers and implementing setbacks (both required by State and Trelina Solar Energy Center's internal process) during Project planning, to the extent practical.

Delineation efforts included the following tasks:

1. A desktop review of existing, publicly available federal and state agency resources;
2. A field delineation of all aquatic features within the Project Area using a handheld Global Positioning System (GPS) with reported sub-meter accuracy; and,
3. Documentation of the delineated aquatic features including the assumed agency jurisdiction for each resource based on hydrology, vegetation, and hydric soils data collected in the field.

Conclusions proposed herein provide information necessary to support a permit application to the United States Army Corps of Engineers (USACE) (if determined necessary) and the New York State Board on Electric Generation Siting and the Environment (Siting Board).

2.0 REGULATORY AUTHORITY

2.1 United States Army Corps of Engineers

In accordance with Section 404 of the Clean Water Act, the USACE asserts jurisdiction over Waters of the United States (WOTUS). WOTUS are defined as wetlands, streams, and other aquatic resources under the regulatory authority of Title 33 Code of Federal Regulations (CFR) Part 328 and the United States Environmental Protection Agency (EPA), per Title 40 CFR Part 230.3(s). Wetlands are defined as *“those areas that are inundated or saturated by surface or ground water at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions”* (33 CFR 328.3[c]).

2.1.1 Historical Context

On June 6, 2007, the EPA and the Department of Army issued a memorandum outlining jurisdictional guidance on WOTUS. The document outlined major key points resulting from the United States Supreme Court decision in the matter of *Solid Waste Agency of Northern Cook County v. Army Corps of Engineers* (531 U.S. 159, January 9, 2001) and *Rapanos v. United States* (547 U.S. 715, June 19, 2006). Following receipt of public comment and based on these agencies' experience in implementing the Rapanos decision, EPA and USACE issued a revised memorandum on December 2, 2008, providing guidance to EPA regions and USACE districts. This document concluded the following:

The USACE will assert jurisdiction over the following waters:

- Traditional navigable waters
- Wetlands adjacent to traditional navigable waters;
- Non-navigable tributaries of traditional navigable waters that are relatively permanent where the tributaries typically flow year-round or have continuous flow at least seasonally (i.e., typically three months); and
- Wetlands that directly abut such tributaries.

The USACE will decide jurisdiction over the following waters based on a fact-specific analysis to determine whether they have significant nexus with a traditional navigable water:

- Non-navigable tributaries that are not relatively permanent;
- Wetlands adjacent to non-navigable tributaries that are not relatively permanent; and

- Wetlands adjacent to but that do not directly abut a relatively permanent non-navigable tributary.

The USACE generally will not assert jurisdiction over the following features:

- Swales or erosional features (e.g., gullies, small washes characterized by low volume, infrequent, or short duration flow); and
- Ditches (including roadside ditches) excavated wholly in and draining only uplands and that do not carry a relatively permanent flow of water.

The USACE will apply the significant nexus standard as follows:

- A significant nexus analysis will assess the flow characteristics and functions of the tributary itself and the functions performed by all wetlands adjacent to the tributary to determine if they significantly affect the chemical, physical and biological integrity of downstream traditional navigable waters; and
- Significant nexus includes consideration of hydrologic and ecologic factors.

2015 Clean Water Rule

On August 28, 2015, the EPA released the Clean Water Rule (33 CFR Part 328) intending to clarify the scope of the Clean Water Act (CWA), WOTUS, and definitions of significant nexus. However, on October 9, 2015, implementation of the Clean Water Rule was stayed by the Sixth Circuit Court of Appeals pending further action of the court. On August 16, 2018, the U.S. District Court for the District of South Carolina enjoined the delay of the Clean Water Rule. Therefore, the Clean Water Rule again became in effect in 22 states, including New York.

2.1.2 Current Status

On October 23, 2019, the 2015 CWR was repealed, pending a required 60-day public notification period. This repeal was step one of a two-step rule-making process intended to (re)define the scope of waters of the United States that are regulated under the Clean Water Act. The repeal of the CWR became effective on December 23, 2019. On that date, the definition of WOTUS reverted to the historical context of the pre-2015 timeframe, (AKA the “Rapanos Approach”). The Rapanos Approach is a temporary replacement. A permanent replacement, referred to as the Navigable Waters Protection Rule, awaits a required 60-day public notification period through publication in the Federal Register.

Navigable Waters Protection Rule:

The Navigable Waters Protection Rule, currently pending public notice, outlines categories of waters considered jurisdictional, as well as those considered non-jurisdictional. The four

categories of waters that are considered Waters of the United States, and thus jurisdictional to the USACE include the following:

Territorial seas and traditional navigable waters (TNWs)

- Under the final rule, the territorial seas and traditional navigable waters include large rivers and lakes—such as the Mississippi River, the Great Lakes, Chesapeake Bay, and the Erie Canal—and tidally-influenced waterbodies used in interstate or foreign commerce.

Tributaries

- Tributaries include perennial and intermittent rivers and streams that contribute surface flow to traditional navigable waters in a typical year.

- These naturally occurring surface water channels must flow more often than just after a single precipitation event—that is, tributaries must be perennial or intermittent.

- Tributaries can connect to a traditional navigable water or territorial sea in a typical year either directly or through other “waters of the United States,” through channelized non-jurisdictional surface waters, through artificial features (including culverts and spillways), or through natural features (including debris piles and boulder fields).

- Ditches are to be considered tributaries only where they satisfy the flow conditions of the perennial and intermittent tributary definition and either were constructed in or relocate a tributary or were constructed in an adjacent wetland and contribute perennial or intermittent flow to a traditional navigable water in a typical year.

Lakes, ponds, and impoundments of jurisdictional waters

- Lakes, ponds, and impoundments of jurisdictional waters are jurisdictional where they contribute surface water flow to a traditional navigable water or territorial sea in a typical year either directly or through other “waters of the United States,” through channelized non-jurisdictional surface waters, through artificial features (including culverts and spillways), or through natural features (including debris piles and boulder fields).

- Lakes, ponds, and impoundments of jurisdictional waters are also jurisdictional where they are flooded by a “water of the United States” in a typical year.

Adjacent wetlands

- Wetlands that physically touch other jurisdictional waters are “adjacent wetlands.”

- Wetlands separated from a “water of the United States” by only a natural berm, bank or dune are also “adjacent.”

- Wetlands inundated by flooding from a “water of the United States” in a typical year are “adjacent.”

- Wetlands that are physically separated from a jurisdictional water by an artificial dike, barrier, or similar artificial structure are “adjacent” so long as that structure allows for a direct hydrologic surface connection between the wetlands and the jurisdictional water in a typical year, such as through a culvert, flood or tide gate, pump, or similar artificial feature.

- An adjacent wetland is jurisdictional in its entirety when a road or similar artificial structure divides the wetland, as long as the structure allows for a direct hydrologic surface connection through or over that structure in a typical year.

Navigable Waters

The USACE also regulates navigable waters under Section 10 of the Rivers and Harbor Act (33 U.S.C. 401 et seq.), which requires a permit be issued by the USACE prior to the construction of any structure in or over a navigable water of the United States, as well as any proposed action (such as excavation/dredging or deposition of materials) that would affect the course, location, condition, or capacity of the navigable water, even if the proposed activity is outside the boundaries of the stream in associated wetlands.

2.2 New York State Department of Environmental Conservation

The Freshwater Wetlands Act (Article 24 and Title 23 of Article 71 of the Environmental Conservation Law [ECL]) gives the NYSDEC jurisdiction over state-protected wetlands and adjacent areas, typically extending 100 feet from the wetland perimeter. To implement this Act, regulations were promulgated by the State under 6 New York Codes, Rules, and Regulations (NYCRR) Parts 663 and 664. Part 664 designates wetlands into four class ratings, with Class I being the highest or best quality wetland and Class IV being the lowest. Wetlands regulated by the State are those 12.4 acres (5 hectares) in size or larger, as well as those smaller than 12.4 acres, deemed to be of “unusual local importance.” The Freshwater Wetlands Act requires the NYSDEC to map all state-protected wetlands. This allows landowners and other interested parties a means of determining where state jurisdictional wetlands exist, although the maps are legally only approximations—thus the need for on-site delineations. Compliance with Part 663 is required prior to most disturbances to a state-protected wetland or its protected adjacent area, including the removal of vegetation.

Article 15 of the ECL (Protection of Waters), and its implementing regulations under 6 NYCRR Part 608, addresses activities disturbing the bed or banks of protected streams, including small lakes and ponds with a surface area of 10 acres or less, located within the course of a protected stream. This law and regulation also addresses the navigable waters of the State, including contiguous marshes, estuaries, tidal marshes and wetlands that are inundated at mean high water level or tide. A protected stream is defined in the ECL as any stream, or particular portion of a stream, that has been assigned by the NYSDEC any of the following classifications or standards: AA, A, B, C(T), or C(TS) (6 NYCRR Part 701). State water quality classifications of unprotected watercourses include Class C and Class D streams. The classifications are defined below.

- A classification of AA or A indicates that the best use of the stream is as a source of water supply for drinking, culinary or food processing purposes, primary and secondary contact recreation, and fishing.
- The best usages of Class B waters are primary and secondary contact recreation and fishing.
- The best usage of Class C waters is fishing. Streams designated (T) indicate that they support trout, while those designated (TS) support trout spawning.
- Waters with a classification of D are generally suitable for fishing and non-contact recreation.

It should be noted, per 6 NYCRR Chapter X, Subchapter B, “*All streams or other bodies of water which are not shown on the reference maps herein shall be assigned to Class D, as set forth in Part 701, supra, except that any continuous flowing (perennial) natural stream which is not shown on the reference maps shall have the same classification and assigned standards as the waters to which it is directly tributary.*” (6 CCR-NY 863.4)

3.0 PROJECT AREA CHARACTERISTICS

3.1 Resources

The following publicly available resources were used in the investigation, delineation, and report preparation:

- United States Geological Survey (USGS) Geneva North, New York 7.5-minute quadrangle;
- United States Department of Agriculture (USDA) Ecoregion Maps;
- NYSDEC Ecozone Mapping;
- USGS National Hydrography Dataset (NHD);
- USGS Hydrologic Unit Maps;
- Federal Emergency Management Agency (FEMA) Flood Insurance Rate Map (FIRM) Panels 3607590003B, effective date 9/16/1981 and 3607590005B, effective date 9/16/1981;
- United States Fish and Wildlife Service (USFWS) National Wetlands Inventory (NWI) mapping;
- NYSDEC Environmental Resource Mapper (ERM);

- NYSDEC Freshwater Wetlands Mapping;
- USDA Natural Resources Conservation Service (NRCS) Web Soil Survey; and
- Recent aerial orthoimagery.

3.2 Vegetation and Ecological Communities

The Project Area resides in the Eastern Broadleaf Forest (Continental) Province and the Erie and Ontario Lake Plain Section ecoregions of the United States as defined by the USDA Forest Service (Bailey et al., 1995). Ecoregions are ecosystems of regional extent. The USDA identifies ecoregions by ecosystem characteristics into the following classifications:

- Domains: the largest ecosystem, which are groups of related climates and are differentiated based on precipitation and temperature.
- Divisions: represent the climates within domains and are differentiated based on precipitation levels and patterns, as well as temperature.
- Provinces: Subdivisions of divisions, which are differentiated based on vegetation or other natural land covers.
- Sections: Subdivisions of provinces based on terrain features, sections are the finest level of detail described for each subregion.
- Mountainous Areas: Mountainous regions that exhibit different ecological zones based on elevation.

The Eastern Broadleaf Forest (Continental) Province Ecological Region is characterized by cold winters and warm summers with average annual temperatures ranging from 40 degrees to 65 degrees Fahrenheit. Elevations range from 80 feet to 1,650 feet. There is year-round precipitation however, it is greater during the summer months. The forests are characterized as temperate deciduous and dominated by tall broadleaf trees.

The Erie and Ontario Lake Plain Section is part of the Central Lowlands geomorphic province. It is characterized by its flatness and by shallow entrenchment of its drainages. In this section, there is a combination of level to gently rolling till-plain (glacial ground moraine), and flat lake plain. There are a few areas with broad, low ridges (glacial end moraines) generally trending parallel to the lakes' shorelines. Within New York State, there are moderately dissected till and drumlin plains on three low but notable "stairstep" escarpments, parallel to and below the northern margin of the Allegheny Plateau. Elevations range from 245 ft (75 m), which is the mean elevation of the surface of Lake Ontario and extend up to 1,000 ft (300 m) along the Appalachian Plateau border. Most of the land is under 800 ft (240 m) in elevation. The dominant land use in this area is agriculture, accounting for about 50 percent of total acreage in this Section. Forest land, mostly in farm woodlots, occupies 30 percent of the area. The remaining land is in residential and urban use.

Similarly, the NYSDEC has divided New York State into specific ecological regions (Ecozones). Boundaries of the Ecozones of New York State were derived from Will et al. (1982) and Dickinson (1983) and then further modified by the NYSDEC. The Ecozones of New York State have been classified into Major and Minor Zones. The Project Area is located within the Great Lakes Plain Major Zone (Zone B) and the Erie-Ontario Plain Minor Zone.

The Great Lakes Plain Major Zone is characterized as being similar to a plateau with horizontal rock formations; however, it is not elevated enough above sea level and does not rise above adjacent land to be classified as such. It is essentially a flat plain. Elevation in the zone is typically less than 800 feet. The soils in this major zone are generally limy (alkaline,) and situated on glacial till over undulating to rolling terrain. These soils can also be found on glacial lake sediments over level to undulating terrain. All of the soils within the zone tend to be medium to fine textured. The Great Lakes Plain is part of the elm-red-maple northern hardwood natural vegetation zone. Approximately 20 percent of the land is forested.

The Erie-Ontario Plain Minor Zone is very similar to the Great Lakes Plain Major zone. A majority of the minor zone is under 800 feet in elevation. The average town in this zone is 15 percent wooded.

Recent aerial orthoimagery of the Project Area and surrounding vicinity, obtained from Google Earth, indicates that the Project Area is predominantly covered by agricultural land with minor forested components. Agricultural fields, residences, farm buildings, farm ponds, outbuildings, secondary roads, paved roads, and unimproved farm roads are evident. Streams, drainage ditches and forests are depicted throughout the Project Area. Furthermore, and based off of a more in-depth site review conducted during the delineation effort, the Project Area contains the following ecological communities, as defined by *Ecological Communities of New York State* (Edinger et al., 2014):

- Beech/maple mesic forest
- Common reed marsh
- Cropland/field crops
- Cropland/row crops
- Deep emergent marsh
- Ditch/artificial intermittent stream
- Farm pond/artificial pond
- Floodplain forest
- Intermittent stream
- Pastureland
- Red maple-hardwood swamp
- Shallow emergent marsh
- Shrub swamp

- Successional old field
- Successional shrubland
- Successional southern hardwoods
- Unpaved road/path
- Mowed lawn

3.3 Hydrology

3.3.1 Hydrologic Mapping

The USGS has divided and sub-divided the country into hydrologic units based primarily on drainage basins and watershed boundaries. The main hydrologic unit levels are regions, sub-regions, basins, sub-basins, watersheds, and sub-watersheds. The hydrologic units are nested within each other, from the largest geographic area (regions) to the smallest geographic area (sub-watersheds). Each hydrologic unit is identified by a unique hydrologic unit code (HUC) consisting of two to twelve digits based on the six levels of classification in the hydrologic unit system. In addition to the hydrologic unit codes, each hydrologic unit is assigned a name corresponding to the unit's principal hydrologic feature, or to a cultural or political feature within the unit.

The region hydrologic unit level contains either the drainage area of a major river or the combined drainage areas of a series of rivers. Regions receive a two-digit code. The following hydrologic unit levels are designated by the addition of another two digits with each level. Each sub-region includes the area drained by a river system, a reach of a river and its tributaries in that reach, a closed basin or basins, or a group of streams forming a coastal drainage area.

The Project Area is located within the USGS defined Seneca River sub-basin (HUC 04140201), Upper Seneca River watershed (HUC 0414020109), and the Castle Creek-Seneca Lake sub-watershed (HUC 041402010904) as well as the Silver Creek-Seneca River sub-watershed (HUC 041402010905).

The Seneca River sub-basin is located in the central portion of New York State south of Lake Ontario, between Syracuse and Rochester. The sub-basin occupies 2,213,746 acres and ranges in elevation from 358 to 2,286 feet above sea level. The higher elevations tend to be in the southern branches of the sub-basin. Urban areas make up 6.7% of the sub-basin, with agriculture spread out fairly evenly across the rest. The northern and central portions of the sub-basin are on the Ontario Lake Plain and the southern portion is on the Appalachian Plateau. All of the area within the sub-basin has been glaciated.

The NYSDEC also classifies watersheds more generally within the State of New York. Unlike mapping efforts outlined by the USGS above, the NYSDEC uses the definitions of watersheds and drainage basins interchangeably. New York's waters (e.g., lakes, rivers, wetlands, and streams) fall within one of seventeen major drainage basins as defined by the NYSDEC. The

NYSDEC defines these drainage basins or watersheds as an area of land that drains water into a specific body of water within or adjacent to New York State and includes networks of rivers, streams, lakes, and the surrounding lands. The NYSDEC-classified watersheds are separated by high elevation geographic features (e.g., mountains, hills, and ridges). Each major drainage basin corresponds to one or more USGS sub-basins (USGS HUC 8-digit codes).

The Project Area is located within the Seneca-Oneida-Oswego River major drainage basin of New York. This Major Drainage includes 8,896 miles of freshwater rivers and streams and 76 significant freshwater lakes, ponds, and reservoirs. As previously mentioned, within this major drainage basin, the Project is located in the Seneca River sub-basin (HUC04140201).

3.3.2 Hydrologic Character

The dominant surface water feature on the site is a large open water lake/deep water marsh which occupies several different parcels throughout the Project Area. Most of the aquatic features within the Project Area receive surface waters from precipitation events, agricultural runoff, or are fed by drain tiles. The predominant surface waterbody on the Project Area is Gem Lake. The on-site wetlands act primarily as surface water drainages to the Project Area as well as groundwater recharge/ discharge features. Non-jurisdictional drainages also feed into the groundwater, and wetland or intermittent streams throughout the area. The Project Area is also 0.45 mile from Seneca Lake; however, most of the hydrological features appear to flow to the Seneca River, a NYSDEC Class A waterbody located 0.17 mile from the Project Area, which is the outflow of Seneca Lake.

The Project Area receives, on average, 33.48 inches of rainfall annually based on information for the City of Geneva, New York, located approximately 1 mile from the Project Area (U.S. Climate Data, 2019). In addition to direct precipitation, on-site hydrology originates from agricultural runoff, and subsurface flow. The Project Area predominantly drains to the south/southeast.

On-site hydrological conditions observed during the delineation included one large precipitation event which was indicative of the wetter than average year the region is currently experiencing. These conditions allowed for standing water to occur in low lying areas and micro-topographical depressions where upland soils were present. Consequently, more soils than expected were inundated and wet spots occurred in upland areas.

3.3.3 FEMA Flood Zone Mapping

FEMA maintains material developed to support flood hazard mapping for the National Flood Insurance Program (NFIP). According to FIRM panel 3607590005B, effective date 9/16/1981 and FIRM panel 3607590003B, effective date 9/16/1981, most of the Project Area is within Zone C, associated with Gem Lake, and small portions of the Project Area are located within Zone B of a flood zone (Figure 3). Below is a description of this zone:

- **Zone B:** Areas between limits of the 100-year flood and 500-year flood; or certain areas subject to 100-year flooding with average depths less than one foot or where the contributing drainage area is less than one square mile; or areas protected by levees from the base flood.
- **Zone C:** Areas of minimal flooding.

3.4 Federal and State Mapped Wetlands and Streams

The USFWS is the principal US federal agency tasked with providing information to the public on the status and trends of wetlands on a national scale. The USFWS NWI is a publicly available resource that provides detailed information on the abundance, characteristics, and distribution of nationwide wetlands (where mapped). NWI mapping data is offered in an effort to promote the understanding, conservation, and restoration of wetlands. Note, unlike NYSDEC wetland maps, NWI wetland maps do not denote federal jurisdiction with their mapped boundaries. NWI wetlands are used as a reference guide by TRC field biologists to conduct a more informed site survey in the demarcation or delineation of wetlands and streams, which could be subject to federal jurisdiction under the CWA within the target Project Area.

Review of the NWI mapping during the preliminary desktop analysis indicated 36 federally mapped features within the Project Area, totaling approximately 177.88 acres (Figure 3). NWI mapping data indicates that Freshwater Forested Wetland (PFO1E) aquatic features are the dominant NWI features present within the Project Area. These features comprise a total of approximately 132.35 acres of the Project Area. Other common cover types include Freshwater Scrub/Shrub Wetland (PSS1E; 3.00 acres), Freshwater Emergent Wetland (PEM1E; 7.23 acres) and Lake (L1UBH, L2UBF; 10.44 acres).

The field-delineated aquatic features within the Project Area are more abundant than the features represented by the NWI mapping for the Project Area. Moreover, a number of field-delineated NWI mapped features are significantly larger than their current depictions and have more specific sinuosity to their boundaries. However, some additional aquatic features also occur within the Project Area outside of boundaries indicated by the NWI mapping.

Review of the NYSDEC ERM indicated that there are four NYSDEC freshwater wetlands and their 100-foot adjacent areas mapped within the Project Area, which are regulated under Article 24 of the ECL (Figure 3 of Appendix A). Table 1 provides a summary of the NYSDEC-regulated wetlands mapped within the Project Area. Notably, TRC delineated three of these features as wetlands, not streams, based on the lack of bed and bank structure. This is further discussed in Section 5.3.

Table 1. NYSDEC-Mapped Freshwater Wetlands within the Project Area

SDEC Wetland ID	Wetland Class (I, II, III, or IV) ¹	Total Wetland Area (Acres)	Wetland Area within the Project Area (Acres)
GN-17	II	368.1	74.28
GN-26	I	42.5	13.99
GN-27	II	23.3	20.40
GN-28	II	41.3	20.07
¹ The NYSDEC classification system of freshwater wetlands designates wetlands into four class ratings, with Class I being the highest or best quality wetland and Class IV being the lowest quality.			

Based on NYSDEC stream classification mapping, there are four mapped NYSDEC Class C streams are within the Project Area. State-protected streams are protected per Article 15 of the ECL (Section 2.2). Table 2 below provides a detailed summary of the NYSDEC-classified priority (protected and unprotected) streams within the Project Area.

Table 2. NYSDEC-Mapped Streams within the Project Area

NYSDEC Stream Name and Regulatory Number	NYS Major Drainage Basin	USGS Sub-basin HUC 8 and Name	NYSDEC Classification ¹ and Standard ²	Cumulative Linear Feet within the Project Area
Minor Tribs to Seneca Lake, Northwest 898-473 ³	Seneca/Oneida/Oswego River	4140201 (Seneca River sub-basin)	C/C	1,041.1
Gem Creek 898-391 ³	Seneca/Oneida/Oswego River	4140201 (Seneca River sub-basin)	C/C	1,1792.8
Minor Tribs to Upper Seneca River 898-396	Seneca/Oneida/Oswego River	4140201 (Seneca River sub-basin)	C/C	1,126
Gem Creek 898-390 ³	Seneca/Oneida/Oswego River	4140201 (Seneca River sub-basin)	C/C	644.7
¹ A classification of AA or A indicates that the best use of the stream is as a source of water supply for drinking, culinary or food processing purposes, primary and secondary contact recreation, and fishing. The best usages of Class B waters are primary and secondary contact recreation and fishing. The best usage of Class C waters is fishing. Waters with a classification of D are generally suitable for fishing and non-contact recreation.				
² Streams designated (T) indicate that they support trout, while those designated (TS) support trout spawning.				
³ NYSDEC Stream that was mapped as a wetland by TRC biologists.				

3.5 Physiography and Soil Characteristics

3.5.1 Physiography and Topography

The Project Area is located within the Erie-Ontario Lowlands Physiographic Province of New York State (New York State Department of Transportation, 2013). This Physiographic Province is defined by the plains which border the Great Lakes, which abut the Glaciated Allegheny Plateau to the south, and to their greatest extent, Tug Hill on the east. The Ontario lowlands are an area of generally subdued topography, except for the Niagara escarpment and the swarms of drumlins south of Lake Ontario. The Erie portion slopes rather uniformly from the Portage escarpment northwestward to the shore of Lake Erie. The generally low relief is provided by a series of proglacial lake beach ridges.

The landforms of the Project Area are cool wet plains and cool wet hills on mixed sedimentary rock with grassland, scrub, or shrub.

As shown on the USGS Geneva North, NY 7.5-minute quadrangle, the Project Area consists of very gently rolling plains (approximately 1 to 3 percent slope). The Project Area appears to slope very slightly to the south/southeast, however due to the low relief of the area it is more accurate to describe the site as undulating-flat. The topography remains consistent at approximately 450 feet above mean sea level (AMSL) across the Project Area.

3.5.2 Site Soils

The USDA NRCS Web Soil Survey is an online resource mapping tool that provides soil data and information for the vast majority of the nation. This information is produced by the National Cooperative Soil Survey (NCSS), in partnership with federal, regional, state, and local agencies and private entities and institutions.

A total of 25 soil map units were identified within the Project Area. Soil map units represent a type of soil, a combination of soils, or miscellaneous land types. Soil map units are usually named for the predominant soil series or land types within the map unit. Due to limitations imposed by the small scale of the soil survey mapping, it is not uncommon to identify wetlands within areas not mapped as hydric soil, while areas mapped as hydric often do not support wetlands. This concept is emphasized by the NRCS:

“Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.”

Soil drainage in the Project Area is variable, with approximately 44 percent of the mapped soils classified as moderately well drained, 16 percent somewhat poorly drained, 16 percent very poorly drained, 12 percent poorly drained, and 8 percent classified as well drained.

The 25 soil map units identified within the Project Area by the NRCS are briefly described in Appendix D and outlined in Table 3. Refer to Figure 2 of Appendix A for graphically depicted soil map units of the Project Area.

Hydric Soil

The Web Soil Survey of the Project Area was consulted prior to conducting the delineation to determine the extent of soils meeting hydric criteria as defined by the NRCS. The *Corps of Engineers Wetlands Delineation Manual* (Environmental Laboratories, 1987) (1987 Manual) defines a hydric soil as “a soil that in its undrained condition, is saturated, flooded or ponded long enough during the growing season to develop anaerobic conditions that favor the growth and regeneration of hydrophytic vegetation.”

Of the Project soils, eight of the soils mapped within the Project Area contain higher percentages (33 percent or more) of mapping units with hydric soil inclusions. These higher rating percentages indicate the potential presence of a wetland feature on site. Hydric Soil Rating indicates the percentage of map units that meet the criteria for hydric soils. Map units are composed of one or more map unit components or soil types, each of which is rated as hydric or not hydric. Map units that are made up dominantly of hydric soils may have small areas of minor non-hydric components in the higher positions on the landform, and map units that are made up dominantly of non-hydric soils may have small areas of minor hydric components in the lower positions on the landform. As such, each map unit is rated based on its respective components and the percentage of each component within the map unit. Although a soil series will be given a general hydric soil rating on the Web Soil Survey, this rating is for reference only and does not supersede site-specific conditions documented in the field that constitute hydric soil presence in located wetlands.

Table 3. Mapped Soils within the Project Area

Map Unit Symbol	Map Unit Name	Slope (%)	Drainage Class	Hydric Rating (%)	Acres in Project Area	Percent of Project Area
Al	Alluvial land	0-2	Poorly Drained	55	0.1	0.0
ArB	Arkport loamy fine sand	1-6	Well Drained	0	44	4.1
ArC	Arkport loamy fine sand	6-12	Well Drained	0	3.7	0.3
Ca	Canandaigua silt loam	0-2	Poorly Drained	85	3.9	0.4
CkA	Claverack loamy fine sand	0-2	Moderately Well Drained	5	164.3	15.3
CkB	Claverack loamy fine sand	2-6	Moderately Well Drained	5	143.4	13.3
CIA	Collamer silt loam	0-2	Moderately Well Drained	5	45.9	4.3
CIB	Collamer silt loam	2-6	Moderately Well Drained	5	11.3	1.1

Table 3. Mapped Soils within the Project Area

Map Unit Symbol	Map Unit Name	Slope (%)	Drainage Class	Hydric Rating (%)	Acres in Project Area	Percent of Project Area
Cu	Cosad loamy fine sand	0-2	Somewhat Poorly Drained	10	164.9	15.3
Ed	Edwards muck	0-2	Very Poorly Drained	100	12.9	1.2
EIB	Elnora loamy fine sand	2-6	Moderately Well Drained	0	8.2	0.8
Fw	Fresh water marsh	N/A	N/A	100	12.9	1.2
LcA	Lakemont silty clay loam	0-3	Poorly Drained	95	10.3	1.0
Lf	Lamson fine sandy loam and Mucky fine sandy loam	0-2	Very Poorly Drained	90	61.3	5.7
Md	Made land, tillable	0-8	Moderately Well Drained	0	0.0	0.0
Mr	Muck, deep	0-2	Very Poorly Drained	100	31.8	3.0
Ng	Niagara silt loam	0-2	Somewhat Poorly Drained	5	32.9	3.1
OdA	Odessa silt loam	0-3	Somewhat Poorly Drained	5	88	8.2
SeB	Schoharie silt loam	2-6	Moderately Well Drained	0	109.9	10.2
ShA	Schoharie silty clay loam	0-3	Moderately Well Drained	0	77.7	7.2
ShB	Schoharie silty clay loam	2-6	Moderately Well Drained	0	12.9	1.2
ShC3	Schoharie silty clay loam	6-12	Moderately Well Drained	0	11.9	1.1
Sn	Sloan silt loam	0-2	Very Poorly Drained	95	5.7	0.5
Sr	Stafford loamy fine sand	0-2	Somewhat Poorly Drained	5	16.9	1.6
W	Water	N/A	N/A	0	2.3	0.2

4.0 DELINEATION METHODOLOGY

Prior to initiating field investigations, TRC conducted a desktop review of publicly available data to determine the potential presence of federal and state mapped wetlands and streams within the Project Area. TRC field biologists subsequently performed field investigations to identify aquatic features within the Project Area. Delineations for wetlands and streams were performed in accordance with criteria set forth in the 1987 Manual (Environmental Laboratory, 1987) and the 2012 Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Northcentral and Northeast Region (Version 2.0) (USACE, 2012) (Supplement). Data was collected from a sample plot in each delineated wetland. Depending on the size of the delineated area and any change in cover type, multiple sample plots of the delineated wetland may have been taken. Delineation data was recorded on USACE Wetland Determination Data Forms (Appendix C).

4.1 Hydrology

The presence of wetland hydrology is determined based on primary and secondary indicators established by the USACE. The 1987 Manual defines the presence of wetland hydrology when at least one primary indicator or two secondary indicators are identified. One primary indicator is sufficient to determine if hydrology is present; however, if primary indicators are absent, two or more secondary indicators are required to determine the presence of wetland hydrology. If other probable wetland hydrology evidence was found on-site, then such characteristics were subsequently documented on the USACE Wetland Determination Data Form. Wetland hydrology indicators are grouped into 18 primary and 11 secondary indicators as presented in the Supplement.

Wetland hydrology may influence the characteristics of vegetation and soils due to anaerobic and reducing conditions (Environmental Laboratory, 1987). This influence is dependent on the frequency and duration of soil inundation or saturation which, in turn, is dependent on a variety of factors including topography, soil stratigraphy, and soil permeability, in conjunction with precipitation, runoff, and stormwater and groundwater influence.

4.2 Vegetation

Hydrophytic vegetation is defined in the 1987 USACE Manual as:

"...the sum total of macrophytic plant life that occurs in areas where the frequency and duration of inundation or soil saturation produce permanently or periodically saturated soils of sufficient duration to exert a controlling influence on the plant species present."

Plants are categorized according to their occurrence in wetlands. Scientific names and wetland indicator statuses for vegetation are those listed in *The National Wetland Plant List: 2016 Wetland Ratings* (Lichvar et al., 2016) (NWPL). Due to regional differences in wetland vegetation, among other characteristics, the USACE divided the United States into regions to improve the accuracy

and efficiency of wetland delineations. The indicator statuses specific to the “Northcentral and Northeast Region,” as defined by the USACE, apply to the Project Area. The official short definitions for wetland indicator statuses are as follows:

- Obligate Wetland (OBL): Almost always occur in wetlands.
- Facultative Wetland (FACW): Usually occur in wetlands but may occur in non-wetlands.
- Facultative (FAC): Occur in wetlands and non-wetlands.
- Facultative Upland (FACU): Usually occur in non-wetlands but may occur in wetlands.
- Upland (UPL): Almost never occur in wetlands.

For species with no indicator status in the Project Area’s region, the indicator status assigned to the species in the nearest adjacent region is applied. Plants that are not included on the NWPL within the Project Area’s region, nor an adjacent region, are given no indicator status, and are not included in dominance calculations. Plants that are not listed in any region on the NWPL are considered as UPL on USACE Wetland Determination Data Forms.

Vegetation in both upland and wetland communities was characterized using areal methods for instituting plot measurement. In accordance with USACE methodology, a plot radius of 30 feet around the soil sample location was applied to tree species and vines, a 15-foot radius for saplings/shrubs, and a 5-foot radius was utilized for herbaceous plants. After the measurement of percent coverage was determined for each species, an application of the 50/20 rule of dominance determination was utilized to determine hydrophytic dominance at sample plots. In using the 50/20 rule, the plants that comprise each stratum are ranked from highest to lowest in percent cover. The species that cumulatively equal or exceed 50 percent of the total percent cover for each stratum are dominant species, and any additional species that individually provides 20 percent or more percent cover are also considered dominant species of its respective strata. The total cover for each stratum, and subsequently the plot as a whole could exceed 100 percent due to vegetation overlap.

It should be noted that where the wetland boundary results of this approach differ meaningfully from the approach outlined within the *New York State Freshwater Wetland Delineation Manual* (Browne et al., 1995), the difference is described within this report if needed to address NYSDEC Article 24 jurisdiction. Though not common, two wetland boundaries, a state and a federal boundary, may arise from subtle differences in the definition of vegetative strata, sampling technique, and wetland indicators between the USACE and the NYSDEC. See Section 5.0 for more detail.

Cover types are also assigned to each wetland. The delineated resources were classified in accordance with the system presented in *The Classification of Wetlands and Deepwater Habitats of the United States, Second Edition* (Federal Geographic Data Committee [FGDC], 2013). Field biologists assign cover types to wetlands based on this classification standard and utilize this

document. TRC biologists used the definitions for perennial and intermittent streams found in *The Classification of Wetlands and Deepwater Habitats of the United States, Second Edition* (FGDC, 2013) when classifying delineated streams. Ephemeral streams have flowing water primarily from rainfall runoff and are above the water table.

4.3 Soils

Hydric soil indicators were determined utilizing the Supplement with added provision from the *Field Indicators of Hydric Soils in the United States: A Guide for Identifying and Delineating Hydric Soils*, Version 8.2 (USDA NRCS, 2018). Soil characteristics were documented, such as color, texture, layer depth, presence of organic-layers, and evidence of redoximorphic features, which may include indicators such as reduction, oxidation, gleyed matrices, manganese features. Soil test pits were dug using a spade shovel to a depth of approximately 20 inches. If refusal of a soil sample to 20 inches occurred due to the presence of hardpan layer, rock, or hard fill materials, this occurrence was documented. Soil color was described using the *Munsell Soil Color Book* (Munsell Color, 2015) and texture was determined using the USDA feel method (Thien, 1979).

Hydric soil indicators applicable to the Project Area were determined using the *Land Resource Regions and Major Land Resource Areas of the United States, the Caribbean, and the Pacific Basin* (NRCS, 2006) (MLRA Handbook). Per the MLRA Handbook, the Project Area is within Major Land Resource Area 101 (Ontario-Erie Plain and Finger Lakes Region) of Land Resource Region (LRR) L (Lake States Fruit, Truck Crop, and Dairy Region). Hydric soil indicators that do not apply to this MLRA were not considered.

4.4 Streams

Streams and other non-wetland aquatic features within the Project Area were identified by the presence of an ordinary high-water mark (OHWM), which is the line established by the fluctuations of water (33 CFR 328.3). The OHWM line, where not established and available by public record, is indicated by physical characteristics such as a clear, natural line impressed on the bank; shelving; changes in the character of soil; destruction of terrestrial vegetation; the presence of litter and debris; or other characteristics of the surrounding areas.

Streams greater than 6 feet wide were delineated from bank to bank and points of the delineated boundaries were located with a handheld GPS unit set for sub-meter accuracy. In streams less than 6 feet wide, sub-meter GPS point capture and post-processing (differential correction) may yield imprecise stream bank measurements due to the narrow nature of the stream. In these circumstances, centerline delineations are applied to maintain accurate representation of stream sinuosity for planning and impact calculation purposes. Stream attributes including width, bank height, and water depth are measured and documented on TRC's Stream Data Forms (Appendix C).

5.0 RESULTS

5.1 General Overview

The Project Area contains primarily agricultural land. Several tree lines between agricultural fields and small patches of forested habitat are also present. Dominant vegetation at the Project Area included green ash (*Fraxinus pennsylvanica*), red maple (*Acer rubrum*), eastern cottonwood (*Populus deltoides*), shagbark hickory (*Carya ovata*) in the tree strata; European buckthorn (*Rhamnus cathartica*), Morrow's honeysuckle (*Lonicera morrowii*), black willow (*Salix nigra*) in the shrub strata; and sensitive fern (*Onoclea sensibilis*), fox sedge (*Carex vulpinoidea*), poison ivy (*Toxicodendron radicans*), clover (*Trifolium sp.*) and blunt spikerush (*Eleocharis obtusa*) in the herb strata.

TRC identified and delineated 61 wetlands and seven streams within the Project Area on June 24-28, July 8-11, and July 23-25, 2019 (Figure 4 of Appendix A). Approximately 25 percent (272.24 acres) of the approximately 1,072-acre Project Area is classified as wetland. Representative photographs taken of the delineated wetland communities and streams within the Project Area are provided in Appendix B. Representative descriptions of wetlands and streams delineated are provided below. Completed USACE Wetland Determination Forms and TRC Stream Data Forms are provided in Appendix C. Table 4 and Table 5 below detail the wetlands and streams delineated at the Project Area.

5.2 Delineated Wetlands

Palustrine Scrub-shrub wetlands (PSS) – A total of three wetlands delineated within the Project Area contained characteristics representative of a scrub-shrub wetland community. Scrub-shrub wetlands are dominated by woody shrub vegetation less than 3 inches DBH and vegetation that stand less than 20 feet tall. Shrub species dominating the wetland included true shrubs, a mixture of young trees and shrubs, or trees that are small or stunted due to stressors from explicit environmental conditions.

Scrub-shrub wetlands encountered on the Project Area were typically dominated by black elder (*Sambucus nigra*), silky dogwood (*Cornus amomum*), common buttonbush (*Cephalanthus occidentalis*), southern arrowwood (*Viburnum dentatum*), and silver maple (*Acer saccharinum*). Herbaceous vegetation in these areas was dominated by sensitive fern, broom sedge (*Carex scoparia*), wrinkle-leaf goldenrod (*Solidago rugosa*), spotted touch-me-not (*Impatiens capensis*) and blister sedge (*Carex vesicaria*). Evidence of wetland hydrology for these wetlands included saturation, water-stained leaves, inundation visible on aerial imagery, drainage patterns, geomorphic position, and saturation visible on aerial imagery. Scrub-shrub wetlands within the Project Area typically displayed silty clay loam soils. Variations of characteristics in the soil matrices generally demonstrated Redox Dark Surface (F6) and Depleted Matrix (F3) hydric soil indicators.

Palustrine Forested wetlands (PFO) – A total of 28 wetlands delineated within the Project Area contained characteristics representative of a forested wetland. Forested wetlands are dominated by woody vegetation that is at least 3 inches DBH, regardless of height, with an understory of shrub and herbaceous species. Understory vegetation presence readily varies, as the upper canopy of tree species may block sufficient light for extensive vegetative growth in the understory. Coniferous swamps, lowland hardwood swamps, and floodplain forests are common types of forested wetlands. Soils in forested wetlands are typically inundated or saturated early spring into summer. Some forested wetlands may dry up entirely, which reveal water stain marks along the trunks of exposed tree species and also shallow, buttressed root systems indicative of periods of heavy inundation events

Forested wetlands encountered on the Project Area were typically dominated by green ash, red maple, and cottonwood. The shrub strata in these areas was dominated by European buckthorn, green ash and red maple. Herbaceous vegetation in these areas was dominated by sensitive fern, poison ivy, and European buckthorn. Evidence of wetland hydrology for these wetlands included saturation, surface water, high water table, water stained leaves, sparsely vegetated concave surface, geomorphic position, and microtopographic relief. Forested wetlands with the Project Area typically displayed silty clay loam and sandy clay loam soils. Variations of characteristics in the soil matrices generally demonstrated Redox Dark Surface (F6), Depleted Below Dark surface (A11) and Depleted Matrix (F3) hydric soil indicators.

Palustrine Emergent wetlands (PEM) – A total of 53 wetlands delineated within the Project Area contained characteristics representative of an emergent wetland community. Emergent wetlands are dominated by herbaceous vegetation that comprises woody and non-woody plants that are less than 3.28 feet tall. Emergent wetlands typically contain deep, nutrient rich soils that remain heavily saturated or even inundated throughout the year.

Emergent wetlands encountered on the Project Area were typically dominated by sensitive fern, fox sedge, common rush (*Juncus effusus*), blunt spikerush, cursed buttercup (*Ranunculus sceleratus*) and northern water plantain (*Alisma triviale*). Evidence of hydrology for these wetlands included saturation, surface water, high water table, aquatic fauna, drainage patterns, geomorphic position, and saturation visible on aerial imagery. Emergent wetlands within the Project Area typically displayed silty clay loam and sandy clay loam soils. Variations of characteristics in the soil matrices generally demonstrated Redox Dark Surface (F6) and Depleted Matrix (F3) hydric soil indicators.

Palustrine Unconsolidated Bottom wetlands (PUB) – A total of four wetlands delineated within the Project Area contained characteristics representative of palustrine unconsolidated bottom wetland communities. Unconsolidated bottom wetlands include wetland and deep-water habitats with at least 25 percent cover of particles smaller than stone, and a vegetative cover less than 30 percent. As these are bodies of standing water, evidence of wetland hydrology was decisively present with standing water ranging from approximately 2 to 4 feet in depth. Water regimes are restricted to subtidal, permanently flooded, intermittently exposed, and semi permanently flooded (Cowardin et. al, 1979).

Unconsolidated bottom wetlands are predominantly unvegetated however dominant vegetation observed on the borders of PUB wetlands included black willow, green ash, and narrow-leaf cattail. Evidence of wetland hydrology for these wetlands included surface water, high water table, saturation, inundation visible on aerial imagery, and geomorphic position. Due to inherent inundation in these wetlands it is not possible to obtain an accurate soil profile. Since these wetlands are inundated year-round, soils are assumed to be hydric.

Table 4. Delineated Wetlands within the Project Area

Wetland Field Designation	Cover Type Classification ¹ and Acreage				Total Wetland Acreage within Project Site	NWI Cover Type ²	NYSDEC Wetland ID	NYSDEC Wetland Class ³	Associated Buffer	Latitude of Centroid	Longitude of Centroid
	PEM	PSS	PFO	PUB							
W-JJB-1	1.92	-	20.54	16.63	39.09	L2UBF, PFO5F, R5UBH, PFO1E, PUBH	GN-26	I	100'	42.8969	-76.9521
							GN-27	II			
W-JJB-3	0.10	-	-	-	0.10	-	-	-	-	42.8937	-76.9498
W-JJB-4	1.43	-	15.46	-	16.89	PFO1E	-	-	-	42.8927	-76.9542
W-JJB-6	0.14	-	-	-	0.14	-	-	-	-	42.8899	-76.9585
W-JJB-7	0.43	-	4.67	-	5.10	R5UBH	-	-	-	42.8923	-76.9614
W-JJB-8	-	-	0.71	-	0.71	PFO1E	-	-	-	42.8897	-76.9465
W-JJB-9	0.11	-	-	-	0.11	-	-	-	-	42.8814	-76.9525
W-JJB-10	0.55	-	-	-	0.55	-	-	-	-	42.8802	-76.9546
W-JJB-11	0.12	-	-	-	0.12	-	-	-	-	42.8817	-76.9549
W-JJB-12	19.26	2.11	3.08	1.39	25.84	PFO1E, PEM1E	GN-28	II	100'	42.8850	-76.9536
W-JJB-13	1.25	-	-	-	1.25	-	-	-	-	42.8833	-76.9510
W-JJB-14	0.26	-	-	-	0.26	-	-	-	-	42.8826	-76.9530
W-JJB-15	0.62	-	-	-	0.62	PFO1E	-	-	-	42.9012	-76.9337
W-JJB-16	2.04	-	1.35	-	3.39	PFO1E	-	-	-	42.8992	-76.9343
W-JJB-17	12.30	0.52	17.84	2.88	33.54	PFO1E, PSS1/EM1E	-	-	-	42.8877	-76.9575
W-JJB-18	0.74	-	8.37	2.88	11.99	PEM1E, PFO1E, PUBHh	-	-	-	42.8947	-76.9451
W-JJB-19	-	-	1.02	-	1.02	PFO1E, R5UBH	-	-	-	42.8915	-76.9410

Wetland Field Designation	Cover Type Classification ¹ and Acreage				Total Wetland Acreage within Project Site	NWI Cover Type ²	NYSDEC Wetland ID	NYSDEC Wetland Class ³	Associated Buffer	Latitude of Centroid	Longitude of Centroid
	PEM	PSS	PFO	PUB							
W-NWJ-1	0.72	-	7.57	-	8.29	PFO1E, PFO1/SS1E	GN-17	II	100'	42.9034	-76.9470
W-NWJ-2	-	-	0.33	-	0.33	-	-	-	-	42.9018	-76.9405
W-NWJ-3	0.21	-	-	-	0.21	-	-	-	-	42.9009	-76.9404
W-NWJ-4	-	-	59.91	-	59.91	PFO1/SS1E, PFO1E	GN-17	II	100'	42.9063	-76.9442
W-NWJ-5	-	-	6.94	-	6.94	PFO1E	-	-	-	42.9023	-76.9304
W-NWJ-6	0.07	-	-	-	0.07	-	-	-	-	42.9016	-76.9311
W-NWJ-7	0.18	-	-	-	0.18	-	-	-	-	42.9008	-76.9309
W-NWJ-8	0.07	-	0.23	-	0.30	-	-	-	-	42.8999	-76.9306
W-NWJ-9	-	-	0.03	-	0.03	-	-	-	-	42.8994	-76.9311
W-NWJ-10	0.23	-	0.53	-	0.76	-	-	-	-	42.8993	-76.9318
W-NWJ-11	1.22	-	-	-	1.22	-	-	-	-	42.8904	-76.9252
W-NWJ-12	1.30	-	-	-	1.30	-	-	-	-	42.8963	-76.9310
W-NWJ-13	0.62	-	-	-	0.62	-	-	-	-	42.8945	-76.9316
W-NWJ-14	0.10	-	0.17	-	0.27	-	-	-	-	42.8928	-76.9305
W-NWJ-15	0.46	-	1.50	-	1.96	PSS1E	-	-	-	42.8902	-76.9293
W-NWJ-16	0.04	-	-	-	0.04	-	-	-	-	42.8924	-76.9294
W-NWJ-17	0.48	-	-	-	0.48	-	-	-	-	42.8942	-76.9294
W-NWJ-18	1.14	-	-	-	1.14	-	-	-	-	42.8925	-76.9282
W-NWJ-19	0.09	-	-	-	0.09	-	-	-	-	42.8922	-76.9266
W-NWJ-20	0.67	-	-	-	0.67	-	-	-	-	42.8910	-76.9275
W-NWJ-21	2.21	-	-	-	2.21	PEM1E	-	-	-	42.8933	-76.9253
W-NWJ-22	0.40	-	-	-	0.40	-	-	-	-	42.8941	-76.9246
W-NWJ-23	0.47	-	-	-	0.47	-	-	-	-	42.8939	-76.9240

Wetland Field Designation	Cover Type Classification ¹ and Acreage				Total Wetland Acreage within Project Site	NWI Cover Type ²	NYSDEC Wetland ID	NYSDEC Wetland Class ³	Associated Buffer	Latitude of Centroid	Longitude of Centroid
	PEM	PSS	PFO	PUB							
W-NWJ-24	0.25	-	-	-	0.25	-	-	-	-	42.8959	-76.9282
W-NWJ-25	-	-	0.18	-	0.18	-	-	-	-	42.8927	-76.9315
W-NWJ-26	1.08	-	0.65	-	1.73	-	-	-	-	42.8927	-76.9337
W-NWJ-27	0.97	-	0.23	-	1.2	-	-	-	-	42.8967	-76.9339
W-NWJ-28	0.58	-	0.02	-	0.60	-	-	-	-	42.8975	-76.9349
W-NWJ-29	2.47	-	17.82	-	20.29	PFO1/EM1E	-	-	-	42.8837	-76.9489
W-NWJ-30	0.04	-	-	-	0.04	-	-	-	-	42.8842	-76.9458
W-NWJ-31	2.84	-	1.55	-	4.39	-	-	-	-	42.8864	-76.9457
W-NWJ-32	0.28	-	6.79	-	7.07	PSS1E	-	-	-	42.8828	-76.9448
W-NWJ-33	1.13	-	2.12	-	3.25	-	-	-	-	42.8978	-76.9467
W-NWJ-34	0.02	-	-	-	0.02	-	-	-	-	42.8958	-76.9420
W-NWJ-35	0.16	-	-	-	0.16	-	-	-	-	42.8960	-76.9422
W-NWJ-36	0.69	-	-	-	0.69	-	-	-	-	42.8968	-76.9421
W-NWJ-37	0.42	-	-	-	0.42	-	-	-	-	42.8983	-76.9427
W-NWJ-38	0.06	-	-	-	0.06	-	-	-	-	42.8986	-76.9423
W-NWJ-39	0.06	-	-	-	0.06	-	-	-	-	42.8987	-76.9430
W-NWJ-40	0.05	-	-	-	0.05	-	-	-	-	42.9004	-76.9482
W-NWJ-41	0.06	-	0.18	-	0.24	-	-	-	-	42.8983	-76.9478
W-NWJ-42	0.32	-	0.78	-	1.10	-	-	-	-	42.9054	-76.9601
W-NWJ-43	0.14	-	-	-	0.14	-	-	-	-	42.9037	-76.9603
W-WSH-1	1.69	-	-	-	1.69	PSS1E	-	-	-	42.8894	-76.9277
Total Wetland Acreage Delineated:					272.24						
¹ PEM – palustrine emergent; PSS – palustrine scrub-shrub; PFO – palustrine forested; PUB – palustrine unconsolidated bottom											
² L2UBF- Lacustrine littoral, unconsolidated bottom, semipermanently flooded; L1UBF- Lacustrine limnetic, unconsolidated bottom, permanently flooded; PEM1E- Palustrine emergent, persistent, seasonally flooded/saturated; PFO1E- Palustrine forested, broad-leaved deciduous, seasonally flooded/saturated; PFO5F- Palustrine forested, dead woody plants, semipermanently flooded;											

Wetland Field Designation	Cover Type Classification ¹ and Acreage				Total Wetland Acreage within Project Site	NWI Cover Type ²	NYSDEC Wetland ID	NYSDEC Wetland Class ³	Associated Buffer	Latitude of Centroid	Longitude of Centroid
	PEM	PSS	PFO	PUB							
PSS1E- Palustrine scrub-shrub, broad-leaved deciduous, seasonally flooded/saturated; PUBH- Palustrine unconsolidated bottom, permanently flooded; PUBHh- Palustrine unconsolidated bottom, permanently flooded, diked/impounded; R5UBH- Riverine, unknown perennial, unconsolidated bottom, permanently flooded. ³ The NYSDEC classification system of freshwater wetlands designates wetlands into four class ratings (I–IV), with Class I being the highest or best quality wetland and Class IV being the lowest quality.											

5.3 Delineated Streams

A total of seven streams were delineated within the Project Area (Table 5). Classification of streams were dependent on a temporal description of their usual level of flow regimes. Perennial streams tend to flow all year, except during severe drought conditions. Perennial streams can flow below the water table and receive groundwater flow sources from springs or groundwater seepages on slopes. Intermittent streams flow only during certain times of the year from alternating springs, snow melts, or from runoff from seasonal precipitation events. Intermittent streams can flow above or below the water table. Ephemeral streams flow sporadically and are entirely dependent on transient precipitation from storm events or from periodic snow melts. These streams tend to flow above the water table and are often found as drainage features adjacent to, or within, the headwaters of a more major stream system.

Streams encountered on the Project Area were all intermittent in nature along gentle gradients (less than 2 percent). Stream widths ranged from 3 to 6 feet wide. Stream substrates included silt and clay. Stream depths ranged from 0 to 5 inches. Most streams were determined to be only used as drainage features and lacked substantial features to permit the prevalence of aquatic ecologies, such as undercut banks, plunge pools, or riffle-pool sequences. None of the streams within the Project Area were determined to contain significant aquatic habitat to establish and support fish populations. Only one of the four NYSDEC mapped streams listed in Table 2 was delineated as a stream (898-396). The three other NYSDEC mapped streams lacked stream characteristics such as a defined bed, bank, and ordinary high-water mark, and were mapped as wetlands due to the presence of hydric soils and hydrophytic vegetation.

Table 5. Delineated Streams within the Project Area

Stream Field Designation	Flow Regime Classification	Linear Feet within Project Area	NYSDEC Stream Name and Regulatory Number	NYSDEC Classification ¹ and Standard ²	Potential Jurisdiction	Associated Buffer	Latitude of Centroid	Longitude of Centroid
S-NWJ-01	Intermittent	161.91	-	-	USACE	-	42.9024	-76.9426
S-NWJ-02	Intermittent	192.79	-	-	USACE	-	42.9013	-76.9404
S-NWJ-03	Intermittent	51.05	-	-	USACE	-	42.9026	-76.9322
S-NWJ-04	Intermittent	246.66	-	-	USACE	-	42.8971	-76.9335
S-NWJ-05	Intermittent	321.07	-	-	USACE	-	42.8841	-76.9472
S-JJB-01	Intermittent	231.04	-	-	USACE	-	42.8867	-76.9535
S-JJB-02	Intermittent	792.06	Minor Tribs to Upper Seneca River 898-396	C	USACE	-	42.8931	-76.9428
Total Stream Length Delineated:		1,996.58						
¹ A classification of AA or A indicates that the best use of the stream is as a source of water supply for drinking, culinary or food processing purposes, primary and secondary contact recreation, and fishing. The best usages of Class B waters are primary and secondary contact recreation and fishing. The best usage of Class C waters is fishing. Waters with a classification of D are generally suitable for fishing and non-contact recreation.								
² Streams designated (T) indicate that they support trout, while those designated (TS) support trout spawning.								

6.0 CONCLUSIONS

TRC identified and delineated a total of 61 wetlands (272.24 acres) in the Project Area. Of these wetlands, there were 28 with PFO characteristics (160.17 acres), 53 wetlands with PEM characteristics (65.12 acres), four with PUB characteristics (23.78 acres), and three with PSS characteristics (23.17 acres). TRC assumes that 36 of the wetlands have the potential to be under USACE jurisdiction, as they are hydrologically connected to WOTUS, or extend offsite where connections are presumed. There are no federally-protected buffers or setbacks associated with USACE-regulated wetlands. Twenty-five delineated wetlands do not have a direct physical connection to WOTUS and have the potential to be considered isolated, and as a result, are likely to be non-jurisdictional under the USACE. Four of the delineated wetlands coincide with NYSDEC-mapped wetlands and have a 100-foot buffer around their boundary.

TRC identified and delineated a total of seven streams (1,996.58 linear feet) in the Project Area, all classified as intermittent. All of the delineated streams will likely be under USACE jurisdiction, as they are physically connected by surface water connections to WOTUS or flow offsite and are assumed to be connected to WOTUS downstream.

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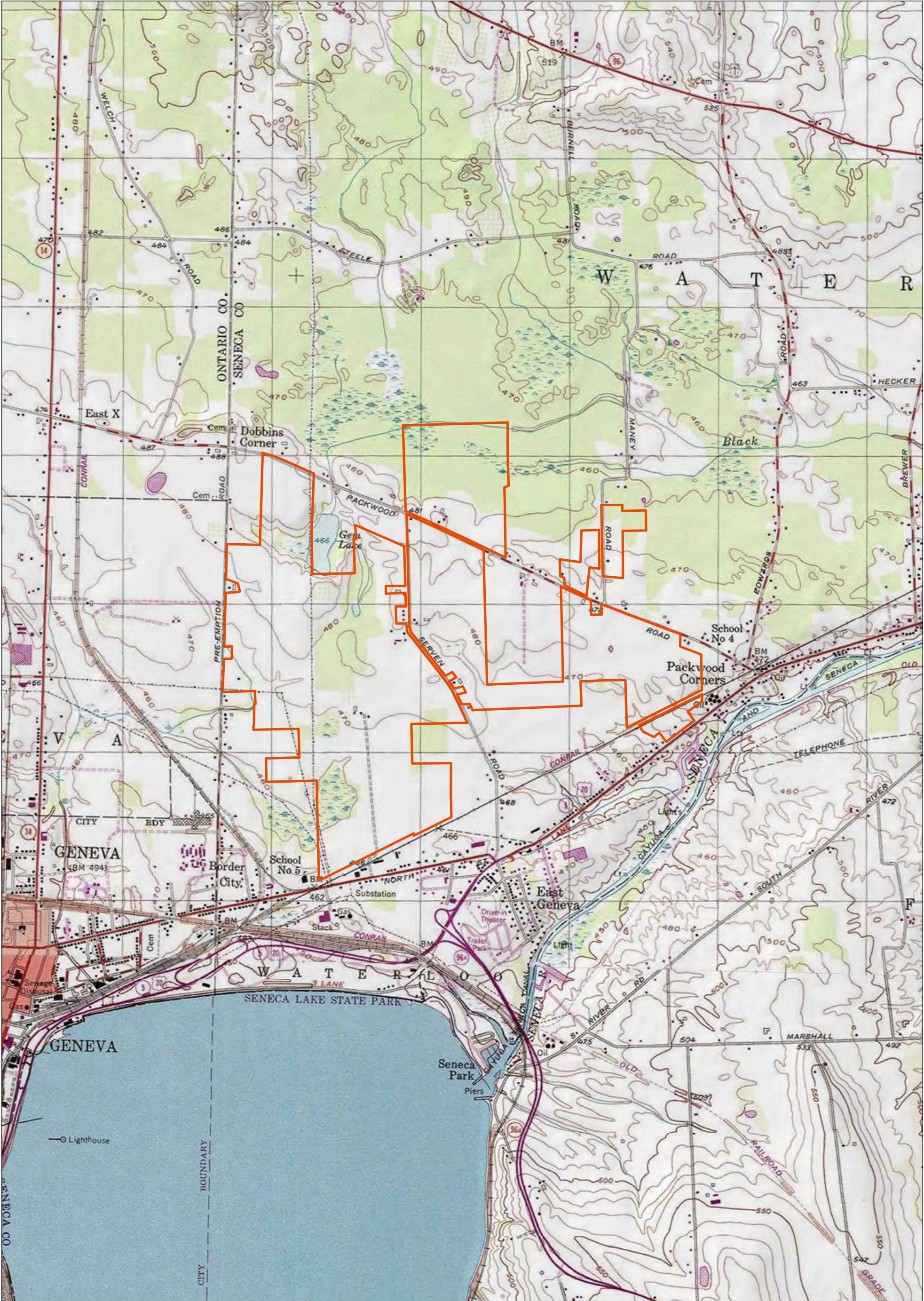
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APPENDIX A

Figures



 Project Area


Base Map: USGS/The National Map

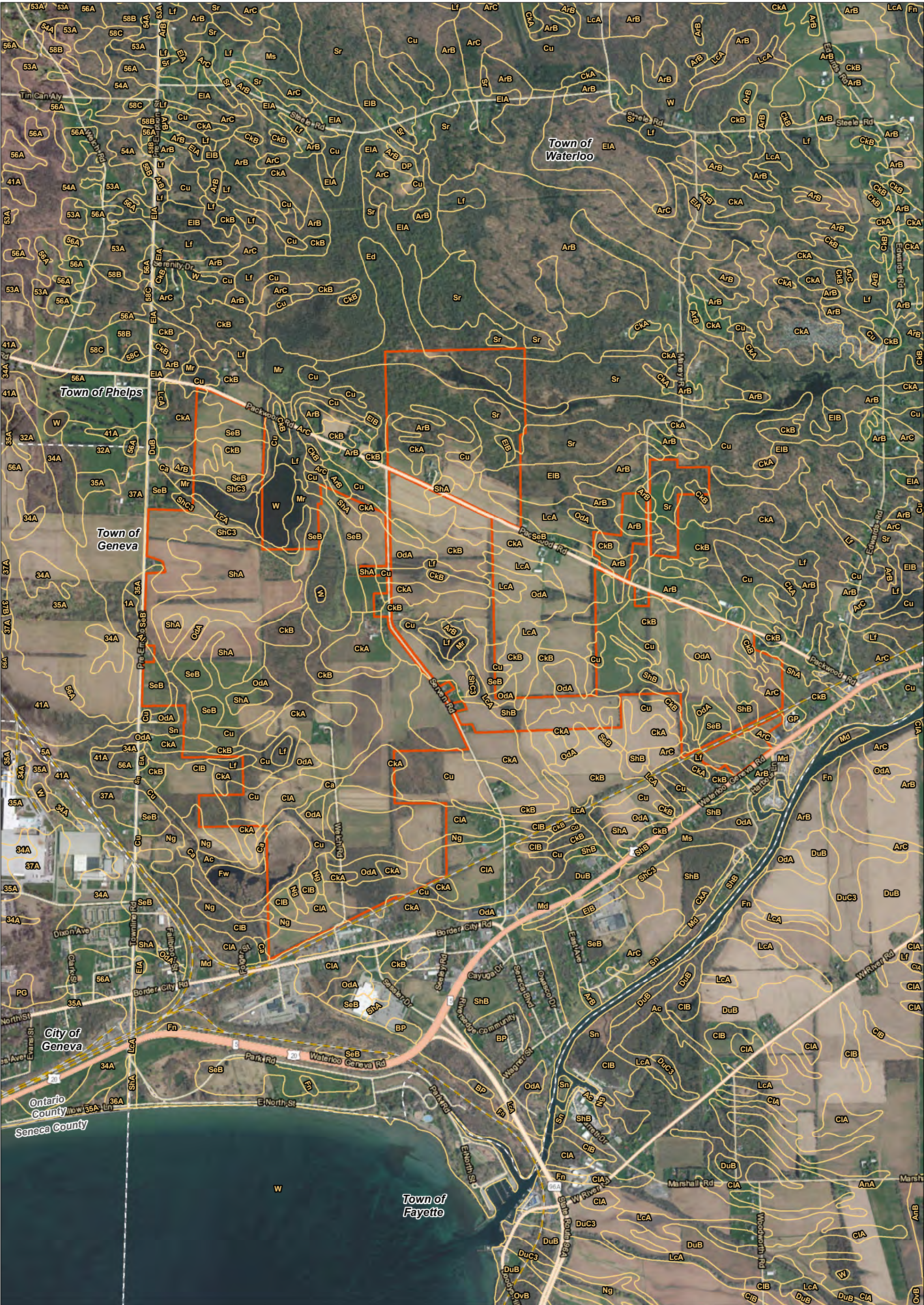
0 1,000 2,000
Feet



SITE LOCATION MAP
TRELINA ENERGY CENTER, LLC
TOWN OF WATERLOO, NY

FIGURE 1 OCTOBER 2019

Map Produced by 



Project Area

Mapped Soils

Municipal Boundary

County Boundary

0

1,000

2,000

Feet

Ontario County

Seneca County

Waterloo

New York

NEXTERA ENERGY

RESOURCES

PROJECT SOILS MAP

TRELINA ENERGY CENTER, LLC

TOWN OF WATERLOO, NY

FIGURE 2

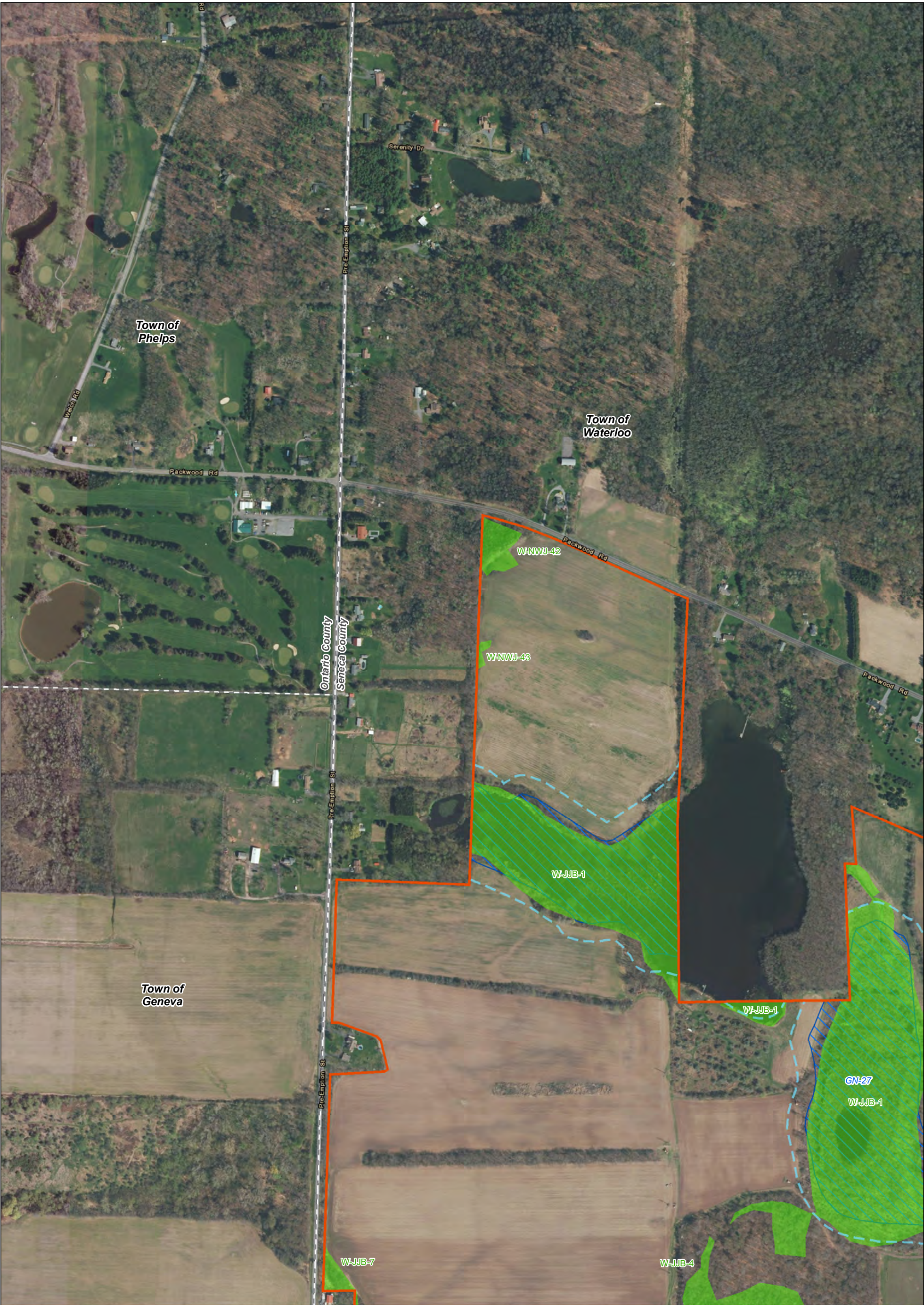
OCTOBER 2019

Map Produced by

TRC

Data: USDA NRCS

Base Map: Esri and its contributors



Project Area	Municipal Boundary
Delineated Wetland	County Boundary
NYSDEC Wetland	
NYSDEC Regulated 100-Foot Adjacent Area	

Data: TRC
Base Map: Esri and its contributors

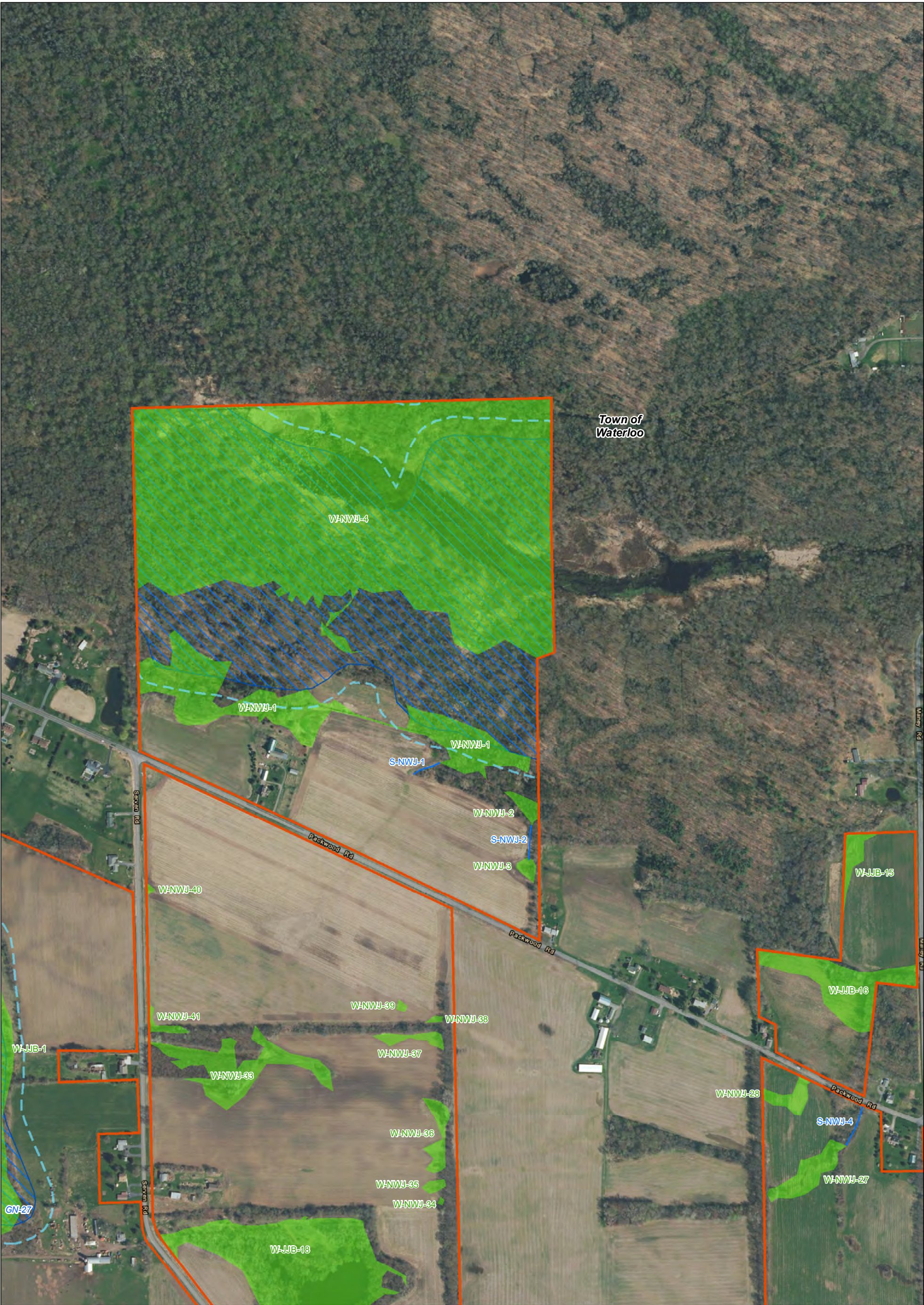
0 250 500 Feet

Ontario County
Seneca County
Brewer Rd
W River Rd
Geneva

New York

DELINEATED WETLANDS AND STREAMS
TRELINA ENERGY CENTER, LLC
TOWN OF WATERLOO, NY
SHEET 1 OF 5

FIGURE 4	OCTOBER 2019
Map Produced by TRC	



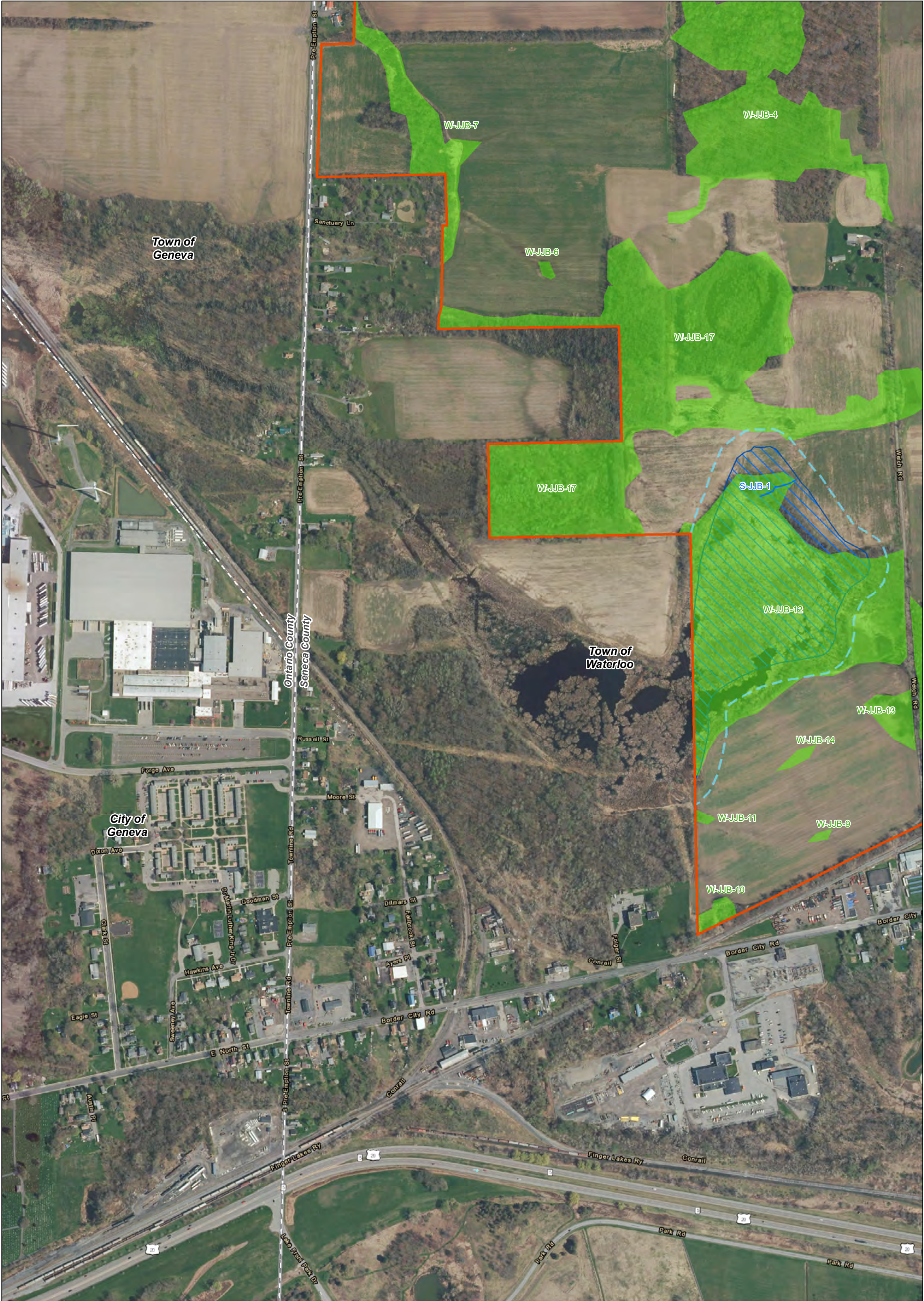
Project Area	Municipal Boundary		
Delineated Stream	County Boundary		
Delineated Wetland			
NYSDEC Wetland			
NYSDEC Regulated 100-Foot Adjacent Area			
Data: TRC Base Map: Esri and its contributors		0 250 500 Feet	
		DELINEATED WETLANDS AND STREAMS TRELINA ENERGY CENTER, LLC TOWN OF WATERLOO, NY SHEET 2 OF 5	
		FIGURE 4	OCTOBER 2019
		Map Produced by	



<ul style="list-style-type: none">Project AreaDelineated StreamDelineated WetlandNYSDEC WetlandNYSDEC Regulated 100-Foot Adjacent Area	<ul style="list-style-type: none">Municipal BoundaryCounty Boundary			
DELINEATED WETLANDS AND STREAMS				
TRELINA ENERGY CENTER, LLC				
TOWN OF WATERLOO, NY				
SHEET 3 OF 5				
FIGURE 4		OCTOBER 2019		
Map Produced by				

Data: TRC
Base Map: Esri and its contributors

0 250 500 Feet



Project Area	Municipal Boundary
Delineated Stream	County Boundary
Delineated Wetland	
NYSDEC Wetland	
NYSDEC Regulated 100-Foot Adjacent Area	

Data: TRC
Base Map: Esri and its contributors

0 250 500 Feet

Ontario County

Seneca County

New York

DELINEATED WETLANDS AND STREAMS
TRELINA ENERGY CENTER, LLC
TOWN OF WATERLOO, NY
SHEET 4 OF 5

FIGURE 4 OCTOBER 2019

Map Produced by TRC



Project Area

Delineated Stream

Delineated Wetland

Municipal Boundary

County Boundary

0

250

500

Feet

Ontario County

Seneca County

New York

NEXTERA ENERGY RESOURCES

DELINEATED WETLANDS AND STREAMS

TRELINA ENERGY CENTER, LLC

TOWN OF WATERLOO, NY

SHEET 5 OF 5

FIGURE 4

OCTOBER 2019

Map Produced by

TRC

Data: TRC
Base Map: Esri and its contributors

APPENDIX B

Photograph Log



Photo 1. Intermittent stream S-NWJ-3 within PFO wetland W-NWJ-5 in the northern section of the Project Area. 6/25/19.



Photo 2. PFO wetland W-NWJ-1 in the northern section of the Project Area. 6/24/19



Photo 3. Upland agricultural field in the northeastern corner of the Project Area, representative of the majority of agriculture throughout the Project Area. 6/27/19



Photo 4. Wetland W-NWJ-29, a PFO wetland in the southwest corner of the Project Area. 6/27/19.



Photo 5. Mowed path within PFO/PEM wetland W-NWJ-32 in the southern portion of the Project Area. 6/27/19



Photo 6. PEM wetland W-NWJ-33 on gas pipeline right-of-way (ROW) in northern portion of the Project Area. 6/27/19



Photo 7. Agricultural field in the north-central portion of the Project Area. 7/24/19



Photo 8. PEM wetland W-NWJ-35 located in an agricultural field. 6/27/19



Photo 9. Gem Lake, a PUB wetland W-JJB-1 located in the northwest corner of the Project Area.
7/08/19



Photo 10. PEM wetland W-JJB-3 located within an active pasture. 7/09/19



Photo 11. Inundated area within PFO wetland W-NWJ-42, located in the northwest corner of the Project Area. 6/28/19



Photo 12. Planted soy beans in an agricultural field, typical of land use within the Project Area. 6/28/19



Photo 13. PEM wetland swale, W-JJB-11, under transmission lines located in an active agricultural field. 7/11/2019



Photo 14. Upland field adjacent to railroad tracks located in the southeast corner of the Project Area. 6/11/19



Photo 15. PEM wetland W-WSH-1 adjacent to railroad tracks located in the southeast corner of the Project Area. 6/11/19



Photo 16. Intermittent stream W-JJB-1 located within PFO wetland W-JJB-12. 7/23/19



Photo 17. PUB wetland W-JJB-18 located the central part of the Project Area. 7/24/19



Photo 18. Inundated PEM wetland W-NWJ-22 adjacent to an active agricultural field located in the eastern portion of the Project Area. 6/26/19



Photo 19. Hardwood forest upland in the central part of the Project Area. 6/26/19



Photo 20. Intermittent stream S-NWJ-2 located in eastern portion of the Project Area. 6/26/19



Photo 21. View of PEM wetland W-NWJ-36 in the corner of an agricultural field. 6/26/19



Photo 22. PEM wetland W-NWJ-29 located in the south-central portion of the Project Area.
6/27/19



Photo 23. Upland agricultural field with PUB wetland W-JJB-1 in the background, located in the northwest portion of the Project Area. 7/10/19



Photo 24. Gas pipeline sign located within wetland W-JJB-1 in the western portion of the Project Area. 7/9/19



Photo 25. PFO wetland W-JJB-8 with sparsely vegetated concave surface located in the western portion of the Project Area. 7/9/19



Photo 26. Mosaic forested upland located in the central portion of the Project Area. 7/11/19



Photo 27. PUB wetland W-JJB-17 located in the western portion of the Project Area. 7/23/19



Photo 28. PEM wetland W-JJB-13 within an agricultural field adjacent to Welch Road, located in the southern portion of the Project Area. 7/23/19

APPENDIX C
USACE Wetland Determination Data Forms
&
TRC's Stream Data Forms

Stream Inventory Data Form

Project Name		NextEra Trelina		Date		6/24/2019	
Project Number		328807		Evaluated By		Nick DeJohn	
Address							
USGS Quadrangle(s): Geneva, NY							
Stream Delineation ID		S-NWJ-1		Stream Name		N/A	
		Stream Location		East side of northern most parcel along hedge row			
		(e.g. nearest road, structure)					
Presumed Regulatory Authority							
<input checked="" type="checkbox"/> U.S. Army Corps		<input type="checkbox"/> State		Rationale:			
Stream Class		Observed Hydrology		Width (ft.) across Existing Water			
<input type="checkbox"/> Perennial		Flow <input type="checkbox"/> Dry <input checked="" type="checkbox"/> Low <input type="checkbox"/> Moderate		1			
<input checked="" type="checkbox"/> Intermittent		Stage <input type="checkbox"/> High <input type="checkbox"/> Flood		Flood Plain <input type="checkbox"/> Yes, Measure Bankfull Width (ft.)			
<input type="checkbox"/> Ephemeral		Flow Direction North		<input type="checkbox"/> No, Measure Top of Bank Width (ft.)			
<input type="checkbox"/> Undetermined		Average Depth 2 inches		12			
Streambed Substrate		Channel Gradient		Width (ft.) across Ordinary High Water Mark*			
<input type="checkbox"/> Shale <input type="checkbox"/> Sand		<input checked="" type="checkbox"/> <2% (<1°) Gentle		3			
<input type="checkbox"/> Bedrock <input type="checkbox"/> Organic		<input type="checkbox"/> 2 - 4% (1 - 2°) Moderate		*Ordinary High Water Mark Indicators			
<input type="checkbox"/> Boulders <input type="checkbox"/> Cobble/Gravel		<input type="checkbox"/> 4 - 10% (2 - 6°) Steep		<input checked="" type="checkbox"/> Natural Line Impressed on Bank <input type="checkbox"/> Scour <input type="checkbox"/> Wrack			
<input checked="" type="checkbox"/> Silt <input checked="" type="checkbox"/> Clay		<input type="checkbox"/> >10% (>6°) Very Steep		<input type="checkbox"/> Matted, bent, or Absent Vegetation <input type="checkbox"/> Water Staining			
<input type="checkbox"/> Other				<input type="checkbox"/> Soil Character Change <input type="checkbox"/> Shelving			
				<input type="checkbox"/> Terrestrial Vegetation Destroyed <input checked="" type="checkbox"/> Bed & Banks			
				<input type="checkbox"/> Disturbed/Washed-away Leaf Litter <input type="checkbox"/> Litter & Debris			
				<input type="checkbox"/> Plant Community Change <input type="checkbox"/> Sediment Sorting			
				<input type="checkbox"/> Multiple Observed Flow Events <input type="checkbox"/> Deposition			
Observed Use				Water Quality			
<input type="checkbox"/> Boating <input type="checkbox"/> Shellfishing <input type="checkbox"/> Swimming <input type="checkbox"/> Irrigation				<input checked="" type="checkbox"/> Clear <input type="checkbox"/> Turbid <input type="checkbox"/> Slightly Turbid <input type="checkbox"/> Very Turbid			
<input type="checkbox"/> Fishing <input checked="" type="checkbox"/> Drainage <input type="checkbox"/> Drinking <input type="checkbox"/> Aquaculture				Comments			
<input type="checkbox"/> Other							
Bank Slope		Left* Right*		Bank Height (ft.)		Bank Erosion Potential	
0 - 8% (0 - 5°) Nearly Level - Gently Sloping		X X		Left* 3		Left* Right*	
8 - 15% (5 - 9°) Moderately Sloping				Right* 3		Low X X	
15 - 25% (9 - 14°) Steeply Sloping						Moderate	
25 - 35% (14 - 20°) Steep						High	
>35% (>20°) Very Steep				* Direction when facing downstream			
Bank Substrate		Aquatic Habitat		Estimated Canopy Closure			
<input type="checkbox"/> Shale <input type="checkbox"/> Gravel <input checked="" type="checkbox"/> Silt/Clay <input type="checkbox"/> Cobble		<input type="checkbox"/> Aquatic Vegetation <input type="checkbox"/> Mud Bar		<input type="checkbox"/> 0 - 10% <input type="checkbox"/> 50 - 60%			
<input type="checkbox"/> Bedrock <input type="checkbox"/> Sand <input type="checkbox"/> Riprap <input type="checkbox"/> Organic		<input checked="" type="checkbox"/> Overhanging Vegetation <input type="checkbox"/> Sand Bar		<input type="checkbox"/> 10 - 20% <input type="checkbox"/> 60 - 70%			
<input type="checkbox"/> Other		<input type="checkbox"/> Undercut Banks <input type="checkbox"/> Riffle - Pool		<input type="checkbox"/> 20 - 30% <input type="checkbox"/> 70 - 80%			
Comments		<input type="checkbox"/> Gravel Bar <input type="checkbox"/> Plunge Pools		<input checked="" type="checkbox"/> 30 - 40% <input type="checkbox"/> 80 - 90%			
		<input type="checkbox"/> Other		<input type="checkbox"/> 40 - 50% <input type="checkbox"/> 90 - 100%			



Stream Inventory Data Form

Stream Delineation ID S-NWJ-1

Adjacent Community Type		Upland/Ag field	
<u>Percent Cover</u>		<u>Dominant Species</u>	
Trees	20	Black cherry, cottonwood	
Shrubs	10	Rose, honeysuckle	
Herbaceous	70	Solidago canadensis	
Woody Vines			
Bare Soil/Rock		Type	
Impervious		Type	

<u>Observed Fauna</u>				
<input type="checkbox"/> Waterfowl	<input type="checkbox"/> Fish	<input type="checkbox"/> Salamanders	<input type="checkbox"/> Mink	<input type="checkbox"/> Other
<input type="checkbox"/> Snakes	<input checked="" type="checkbox"/> Frogs	<input type="checkbox"/> Beaver	<input type="checkbox"/> Otter	
<input type="checkbox"/> Turtles	<input type="checkbox"/> Toads	<input type="checkbox"/> Muskrat	<input type="checkbox"/> Invertebrates	

<u>Presence of Rare, Threatened, or Endangered Species</u>	
<input type="checkbox"/> No	<input type="checkbox"/> Yes
Species & Evidence	
<input checked="" type="checkbox"/> Undetermined	

<u>Notes (include weather, site access issues, culverts, etc.)</u>	
80 degrees Fahrenheit & overcast. Small stream on hedge row feeding into W-NWJ-1	

Sketch (Optional)	



Stream Inventory Data Form

Project Name <u>NextEra Trelina</u>		Date <u>6/24/2019</u>	
Project Number <u>328807</u>		Evaluated By <u>Nick DeJohn</u>	
Address _____			
USGS Quadrangle(s): <u>Geneva, NY</u>			
Stream Delineation ID <u>S-NWJ-2</u>		Stream Name _____	
Stream Location <u>Eastern boundary of northern most parcel</u>			
(e.g. nearest road, structure) _____			
Presumed Regulatory Authority _____			
<input checked="" type="checkbox"/> U.S. Army Corps <input type="checkbox"/> State		Rationale: _____	
<u>Stream Class</u> <input type="checkbox"/> Perennial <input checked="" type="checkbox"/> Intermittent <input type="checkbox"/> Ephemeral <input type="checkbox"/> Undetermined	<u>Observed Hydrology</u> Flow <input type="checkbox"/> Dry <input checked="" type="checkbox"/> Low <input type="checkbox"/> Moderate Stage <input type="checkbox"/> High <input type="checkbox"/> Flood Flow Direction <u>North</u> Average Depth <u>3 in</u>	Width (ft.) across Existing Water <u>1</u> Flood Plain <input type="checkbox"/> Yes, Measure Bankfull Width (ft.) Present? <input checked="" type="checkbox"/> No, Measure Top of Bank Width (ft.) <u>10</u> Width (ft.) across Ordinary High Water Mark* <u>3</u> <u>*Ordinary High Water Mark Indicators</u> <input checked="" type="checkbox"/> Natural Line Impressed on Bank <input type="checkbox"/> Scour <input type="checkbox"/> Wrack <input type="checkbox"/> Matted, bent, or Absent Vegetation <input type="checkbox"/> Water Staining <input type="checkbox"/> Soil Character Change <input type="checkbox"/> Shelving <input type="checkbox"/> Terrestrial Vegetation Destroyed <input checked="" type="checkbox"/> Bed & Banks <input type="checkbox"/> Disturbed/Washed-away Leaf Litter <input type="checkbox"/> Litter & Debris <input type="checkbox"/> Plant Community Change <input type="checkbox"/> Sediment Sorting <input type="checkbox"/> Multiple Observed Flow Events <input type="checkbox"/> Deposition	
<u>Streambed Substrate</u> <input type="checkbox"/> Shale <input type="checkbox"/> Sand <input type="checkbox"/> Bedrock <input type="checkbox"/> Organic <input type="checkbox"/> Boulders <input type="checkbox"/> Cobble/Gravel <input checked="" type="checkbox"/> Silt <input checked="" type="checkbox"/> Clay <input type="checkbox"/> Other _____	<u>Channel Gradient</u> <input checked="" type="checkbox"/> <2% (<1°) Gentle <input type="checkbox"/> 2 - 4% (1 - 2°) Moderate <input type="checkbox"/> 4 - 10% (2 - 6°) Steep <input type="checkbox"/> >10% (>6°) Very Steep	<u>Observed Use</u> <input type="checkbox"/> Boating <input type="checkbox"/> Shellfishing <input type="checkbox"/> Swimming <input type="checkbox"/> Irrigation <input type="checkbox"/> Fishing <input checked="" type="checkbox"/> Drainage <input type="checkbox"/> Drinking <input type="checkbox"/> Aquaculture <input type="checkbox"/> Other _____	
<u>Bank Slope</u> 0 - 8% (0 - 5°) Nearly Level - Gently Sloping 8 - 15% (5 - 9°) Moderately Sloping 15 - 25% (9 - 14°) Steeply Sloping 25 - 35% (14 - 20°) Steep >35% (>20°) Very Steep		<u>Bank Height (ft.)</u> Left* <u>3</u> Right* <u>3</u> * Direction when facing downstream	<u>Bank Erosion Potential</u> Left* Right* Low _____ Moderate <u>X</u> <u>X</u> High _____
<u>Bank Substrate</u> <input type="checkbox"/> Shale <input type="checkbox"/> Gravel <input checked="" type="checkbox"/> Silt/Clay <input type="checkbox"/> Cobble <input type="checkbox"/> Bedrock <input type="checkbox"/> Sand <input type="checkbox"/> Riprap <input type="checkbox"/> Organic <input type="checkbox"/> Other _____ Comments _____	<u>Aquatic Habitat</u> <input type="checkbox"/> Aquatic Vegetation <input type="checkbox"/> Mud Bar <input checked="" type="checkbox"/> Overhanging Vegetation <input type="checkbox"/> Sand Bar <input type="checkbox"/> Undercut Banks <input type="checkbox"/> Riffle - Pool <input type="checkbox"/> Gravel Bar <input type="checkbox"/> Plunge Pools <input type="checkbox"/> Other _____		<u>Estimated Canopy Closure</u> <input type="checkbox"/> 0 - 10% <input type="checkbox"/> 50 - 60% <input checked="" type="checkbox"/> 10 - 20% <input type="checkbox"/> 60 - 70% <input type="checkbox"/> 20 - 30% <input type="checkbox"/> 70 - 80% <input type="checkbox"/> 30 - 40% <input type="checkbox"/> 80 - 90% <input type="checkbox"/> 40 - 50% <input type="checkbox"/> 90 - 100%



Stream Inventory Data Form

Stream Delineation ID S-NWJ-2

Adjacent Community Type		Ag field
<u>Percent Cover</u>		<u>Dominant Species</u>
Trees	10	cottonwood
Shrubs		
Herbaceous	40	daisy, buckthorn, goldenrod, blackberry
Woody Vines		
Bare Soil/Rock		Type
Impervious		Type

<u>Observed Fauna</u>				
<input type="checkbox"/> Waterfowl	<input type="checkbox"/> Fish	<input type="checkbox"/> Salamanders	<input type="checkbox"/> Mink	<input type="checkbox"/> Other
<input type="checkbox"/> Snakes	<input checked="" type="checkbox"/> Frogs	<input type="checkbox"/> Beaver	<input type="checkbox"/> Otter	
<input type="checkbox"/> Turtles	<input type="checkbox"/> Toads	<input type="checkbox"/> Muskrat	<input type="checkbox"/> Invertebrates	

<u>Presence of Rare, Threatened, or Endangered Species</u>	
<input type="checkbox"/> No	<input type="checkbox"/> Yes
Species & Evidence	
<input checked="" type="checkbox"/> Undetermined	

<u>Notes (include weather, site access issues, culverts, etc.)</u>	
80 degrees fahrenheit & overcast. Adjacent to ag field on eastern boundary of northern most parcel.	

Sketch (Optional)	



Stream Inventory Data Form

Project Name <u>NextEra Trelina</u>		Date <u>6/24/2019</u>	
Project Number <u>328807</u>		Evaluated By <u>Nick DeJohn</u>	
Address _____			
USGS Quadrangle(s): <u>Geneva, NY</u>			
Stream Delineation ID <u>S-NWJ-3</u>		Stream Name <u>N/A</u>	
Stream Location <u>Perpendicular to Maney Road on northeastern most parcel</u> (e.g. nearest road, structure)			
Presumed Regulatory Authority _____ Rationale: _____			
<input checked="" type="checkbox"/> U.S. Army Corps <input type="checkbox"/> State			
<u>Stream Class</u> <input type="checkbox"/> Perennial <input checked="" type="checkbox"/> Intermittent <input type="checkbox"/> Ephemeral <input type="checkbox"/> Undetermined	<u>Observed Hydrology</u> Flow <input type="checkbox"/> Dry <input type="checkbox"/> Low <input checked="" type="checkbox"/> Moderate Stage <input type="checkbox"/> High <input type="checkbox"/> Flood Flow Direction <u>East</u> Average Depth <u>5 inches</u>	Width (ft.) across Existing Water <u>5</u> Flood Plain <input type="checkbox"/> Yes, Measure Bankfull Width (ft.) Present? <input type="checkbox"/> No, Measure Top of Bank Width (ft.) <u>9</u> Width (ft.) across Ordinary High Water Mark* <u>6</u> <u>*Ordinary High Water Mark Indicators</u> <input checked="" type="checkbox"/> Natural Line Impressed on Bank <input type="checkbox"/> Scour <input type="checkbox"/> Wrack <input type="checkbox"/> Matted, bent, or Absent Vegetation <input type="checkbox"/> Water Staining <input type="checkbox"/> Soil Character Change <input type="checkbox"/> Shelving <input type="checkbox"/> Terrestrial Vegetation Destroyed <input checked="" type="checkbox"/> Bed & Banks <input type="checkbox"/> Disturbed/Washed-away Leaf Litter <input checked="" type="checkbox"/> Litter & Debris <input type="checkbox"/> Plant Community Change <input type="checkbox"/> Sediment Sorting <input type="checkbox"/> Multiple Observed Flow Events <input type="checkbox"/> Deposition	
<u>Streambed Substrate</u> <input type="checkbox"/> Shale <input type="checkbox"/> Sand <input type="checkbox"/> Bedrock <input type="checkbox"/> Organic <input type="checkbox"/> Boulders <input type="checkbox"/> Cobble/Gravel <input checked="" type="checkbox"/> Silt <input checked="" type="checkbox"/> Clay <input type="checkbox"/> Other _____	<u>Channel Gradient</u> <input checked="" type="checkbox"/> <2% (<1°) Gentle <input type="checkbox"/> 2 - 4% (1 - 2°) Moderate <input type="checkbox"/> 4 - 10% (2 - 6°) Steep <input type="checkbox"/> >10% (>6°) Very Steep	<u>Observed Use</u> <input type="checkbox"/> Boating <input type="checkbox"/> Shellfishing <input type="checkbox"/> Swimming <input type="checkbox"/> Irrigation <input type="checkbox"/> Fishing <input checked="" type="checkbox"/> Drainage <input type="checkbox"/> Drinking <input type="checkbox"/> Aquaculture <input type="checkbox"/> Other _____	
<u>Bank Slope</u> 0 - 8% (0 - 5°) Nearly Level - Gently Sloping <input checked="" type="checkbox"/> Left* <input checked="" type="checkbox"/> Right* 8 - 15% (5 - 9°) Moderately Sloping _____ 15 - 25% (9 - 14°) Steeply Sloping _____ 25 - 35% (14 - 20°) Steep _____ >35% (>20°) Very Steep _____		<u>Bank Height (ft.)</u> Left* <u>2</u> Right* <u>2</u> * Direction when facing downstream	<u>Bank Erosion Potential</u> Left* Right* Low <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> Moderate _____ High _____
<u>Bank Substrate</u> <input type="checkbox"/> Shale <input type="checkbox"/> Gravel <input checked="" type="checkbox"/> Silt/Clay <input type="checkbox"/> Cobble <input type="checkbox"/> Bedrock <input type="checkbox"/> Sand <input type="checkbox"/> Riprap <input type="checkbox"/> Organic <input type="checkbox"/> Other _____ Comments _____	<u>Aquatic Habitat</u> <input type="checkbox"/> Aquatic Vegetation <input type="checkbox"/> Mud Bar <input checked="" type="checkbox"/> Overhanging Vegetation <input type="checkbox"/> Sand Bar <input type="checkbox"/> Undercut Banks <input type="checkbox"/> Riffle - Pool <input type="checkbox"/> Gravel Bar <input type="checkbox"/> Plunge Pools <input type="checkbox"/> Other _____		<u>Estimated Canopy Closure</u> <input type="checkbox"/> 0 - 10% <input type="checkbox"/> 50 - 60% <input type="checkbox"/> 10 - 20% <input type="checkbox"/> 60 - 70% <input type="checkbox"/> 20 - 30% <input type="checkbox"/> 70 - 80% <input type="checkbox"/> 30 - 40% <input checked="" type="checkbox"/> 80 - 90% <input type="checkbox"/> 40 - 50% <input type="checkbox"/> 90 - 100%



Stream Inventory Data Form

Stream Delineation ID S-NWJ-3

Adjacent Community Type		Forest
<u>Percent Cover</u>		<u>Dominant Species</u>
Trees	70	Green ash
Shrubs	10	Buckthorn, green ash
Herbaceous	20	sensitive fern
Woody Vines		
Bare Soil/Rock		Type
Impervious		Type

<u>Observed Fauna</u>				
<input type="checkbox"/> Waterfowl	<input type="checkbox"/> Fish	<input type="checkbox"/> Salamanders	<input type="checkbox"/> Mink	<input type="checkbox"/> Other
<input type="checkbox"/> Snakes	<input checked="" type="checkbox"/> Frogs	<input type="checkbox"/> Beaver	<input type="checkbox"/> Otter	
<input type="checkbox"/> Turtles	<input type="checkbox"/> Toads	<input type="checkbox"/> Muskrat	<input type="checkbox"/> Invertebrates	

<u>Presence of Rare, Threatened, or Endangered Species</u>	
<input type="checkbox"/> No	<input type="checkbox"/> Yes
Species & Evidence	
<input checked="" type="checkbox"/> Undetermined	

<u>Notes (include weather, site access issues, culverts, etc.)</u>	
80 degrees Fahrenheit, humid & overcast. Recent rain in the morning.	

Sketch (Optional)	



Stream Inventory Data Form

Project Name <u>NextEra Trelina</u>		Date <u>6/26/2019</u>	
Project Number <u>328807</u>		Evaluated By <u>Nick DeJohn</u>	
Address _____			
USGS Quadrangle(s): <u>Geneva, NY</u>			
Stream Delineation ID <u>S-NWJ-4</u>		Stream Name _____	
Stream Location <u>Connected to W-NWJ-27, flowing north toward culvert on Packwood Road</u>			
(e.g. nearest road, structure) _____			
Presumed Regulatory Authority _____			
<input checked="" type="checkbox"/> U.S. Army Corps <input type="checkbox"/> State		Rationale: _____	
<u>Stream Class</u> <input type="checkbox"/> Perennial <input checked="" type="checkbox"/> Intermittent <input type="checkbox"/> Ephemeral <input type="checkbox"/> Undetermined	<u>Observed Hydrology</u> Flow <input type="checkbox"/> Dry <input type="checkbox"/> Low <input checked="" type="checkbox"/> Moderate Stage <input type="checkbox"/> High <input type="checkbox"/> Flood Flow Direction <u>Northeast</u> Average Depth <u>4 inches</u>	Width (ft.) across Existing Water <u>4</u> Flood Plain <input type="checkbox"/> Yes, Measure Bankfull Width (ft.) _____ Present? <input checked="" type="checkbox"/> No, Measure Top of Bank Width (ft.) <u>10</u> Width (ft.) across Ordinary High Water Mark* <u>6</u> <u>*Ordinary High Water Mark Indicators</u> <input checked="" type="checkbox"/> Natural Line Impressed on Bank <input type="checkbox"/> Scour <input type="checkbox"/> Wrack <input type="checkbox"/> Matted, bent, or Absent Vegetation <input type="checkbox"/> Water Staining <input type="checkbox"/> Soil Character Change <input type="checkbox"/> Shelving <input type="checkbox"/> Terrestrial Vegetation Destroyed <input checked="" type="checkbox"/> Bed & Banks <input checked="" type="checkbox"/> Disturbed/Washed-away Leaf Litter <input type="checkbox"/> Litter & Debris <input type="checkbox"/> Plant Community Change <input type="checkbox"/> Sediment Sorting <input type="checkbox"/> Multiple Observed Flow Events <input type="checkbox"/> Deposition	
<u>Streambed Substrate</u> <input type="checkbox"/> Shale <input type="checkbox"/> Sand <input type="checkbox"/> Bedrock <input type="checkbox"/> Organic <input type="checkbox"/> Boulders <input type="checkbox"/> Cobble/Gravel <input checked="" type="checkbox"/> Silt <input checked="" type="checkbox"/> Clay <input type="checkbox"/> Other _____	<u>Channel Gradient</u> <input checked="" type="checkbox"/> <2% (<1°) Gentle <input type="checkbox"/> 2 - 4% (1 - 2°) Moderate <input type="checkbox"/> 4 - 10% (2 - 6°) Steep <input type="checkbox"/> >10% (>6°) Very Steep	<u>Observed Use</u> <input type="checkbox"/> Boating <input type="checkbox"/> Shellfishing <input type="checkbox"/> Swimming <input type="checkbox"/> Irrigation <input type="checkbox"/> Fishing <input checked="" type="checkbox"/> Drainage <input type="checkbox"/> Drinking <input type="checkbox"/> Aquaculture <input type="checkbox"/> Other _____	
<u>Bank Slope</u> 0 - 8% (0 - 5°) Nearly Level - Gently Sloping <input checked="" type="checkbox"/> Left* <input checked="" type="checkbox"/> Right* 8 - 15% (5 - 9°) Moderately Sloping _____ 15 - 25% (9 - 14°) Steeply Sloping _____ 25 - 35% (14 - 20°) Steep _____ >35% (>20°) Very Steep _____		<u>Bank Height (ft.)</u> Left* <u>2</u> Right* <u>3</u> * Direction when facing downstream	<u>Bank Erosion Potential</u> Left* <input checked="" type="checkbox"/> Low <input checked="" type="checkbox"/> Right* Moderate _____ High _____
<u>Bank Substrate</u> <input type="checkbox"/> Shale <input type="checkbox"/> Gravel <input checked="" type="checkbox"/> Silt/Clay <input type="checkbox"/> Cobble <input type="checkbox"/> Bedrock <input type="checkbox"/> Sand <input type="checkbox"/> Riprap <input type="checkbox"/> Organic <input type="checkbox"/> Other _____ Comments _____	<u>Aquatic Habitat</u> <input type="checkbox"/> Aquatic Vegetation <input type="checkbox"/> Mud Bar <input checked="" type="checkbox"/> Overhanging Vegetation <input type="checkbox"/> Sand Bar <input type="checkbox"/> Undercut Banks <input type="checkbox"/> Riffle - Pool <input type="checkbox"/> Gravel Bar <input type="checkbox"/> Plunge Pools <input type="checkbox"/> Other _____		<u>Estimated Canopy Closure</u> <input type="checkbox"/> 0 - 10% <input type="checkbox"/> 50 - 60% <input type="checkbox"/> 10 - 20% <input type="checkbox"/> 60 - 70% <input checked="" type="checkbox"/> 20 - 30% <input type="checkbox"/> 70 - 80% <input type="checkbox"/> 30 - 40% <input type="checkbox"/> 80 - 90% <input type="checkbox"/> 40 - 50% <input type="checkbox"/> 90 - 100%



Stream Inventory Data Form

Stream Delineation ID S-NWJ-4

Adjacent Community Type		Ag field
<u>Percent Cover</u>		<u>Dominant Species</u>
Trees	20	red maple
Shrubs	10	common buckthorn
Herbaceous	10	goldenrod
Woody Vines		
Bare Soil/Rock		Type
Impervious		Type

<u>Observed Fauna</u>				
<input type="checkbox"/> Waterfowl	<input type="checkbox"/> Fish	<input type="checkbox"/> Salamanders	<input type="checkbox"/> Mink	<input type="checkbox"/> Other
<input type="checkbox"/> Snakes	<input checked="" type="checkbox"/> Frogs	<input type="checkbox"/> Beaver	<input type="checkbox"/> Otter	
<input type="checkbox"/> Turtles	<input type="checkbox"/> Toads	<input type="checkbox"/> Muskrat	<input type="checkbox"/> Invertebrates	

<u>Presence of Rare, Threatened, or Endangered Species</u>	
<input type="checkbox"/> No	<input type="checkbox"/> Yes
Species & Evidence	
<input checked="" type="checkbox"/> Undetermined	

<u>Notes (include weather, site access issues, culverts, etc.)</u>	
85 degrees Fahrenheit. Leads to culvert at north end of parcel on Packwood Road.	

Sketch (Optional)	

Version 2.0 February 1, 2018



Stream Inventory Data Form

Stream Delineation ID S-NWJ-5

Adjacent Community Type		Forest/Ag field	
<u>Percent Cover</u>		<u>Dominant Species</u>	
Trees	40	Green ash, red maple	
Shrubs			
Herbaceous	40	Goldenrod, poison ivy	
Woody Vines			
Bare Soil/Rock		Type	
Impervious		Type	
<u>Observed Fauna</u>			
<input type="checkbox"/> Waterfowl	<input type="checkbox"/> Fish	<input type="checkbox"/> Salamanders	<input type="checkbox"/> Mink
<input type="checkbox"/> Snakes	<input type="checkbox"/> Frogs	<input type="checkbox"/> Beaver	<input type="checkbox"/> Otter
<input type="checkbox"/> Turtles	<input type="checkbox"/> Toads	<input type="checkbox"/> Muskrat	<input type="checkbox"/> Invertebrates
<u>Presence of Rare, Threatened, or Endangered Species</u>			
<input type="checkbox"/> No	<input type="checkbox"/> Yes	Species & Evidence	
<input type="checkbox"/> Undetermined			
<u>Notes (include weather, site access issues, culverts, etc.)</u>			
80 degrees Fahrenheit, overcast & humid. Dug out drainage adjacent to ag field.			
Sketch (Optional)			

Stream Inventory Data Form

Project Name NextEra Trelina		Date 7/23/2019	
Project Number 328807		Evaluated By Nick DeJohn	
Address 			
USGS Quadrangle(s): Geneva, NY			
Stream Delineation ID S-JJB-1		Stream Name 	
Stream Location North end of W-JJB-12, part of DEC mapped wetland (e.g. nearest road, structure) 			
Presumed Regulatory Authority <input checked="" type="checkbox"/> U.S. Army Corps <input type="checkbox"/> State Rationale: 			
<u>Stream Class</u> <input type="checkbox"/> Perennial <input checked="" type="checkbox"/> Intermittent <input type="checkbox"/> Ephemeral <input type="checkbox"/> Undetermined		<u>Observed Hydrology</u> Flow <input checked="" type="checkbox"/> Dry <input type="checkbox"/> Low <input type="checkbox"/> Moderate Stage <input type="checkbox"/> High <input type="checkbox"/> Flood Flow Direction Southwest Average Depth 0 inches	
<u>Streambed Substrate</u> <input type="checkbox"/> Shale <input type="checkbox"/> Sand <input type="checkbox"/> Bedrock <input type="checkbox"/> Organic <input type="checkbox"/> Boulders <input type="checkbox"/> Cobble/Gravel <input checked="" type="checkbox"/> Silt <input checked="" type="checkbox"/> Clay <input type="checkbox"/> Other		<u>Channel Gradient</u> <input checked="" type="checkbox"/> <2% (<1°) Gentle <input type="checkbox"/> 2 - 4% (1 - 2°) Moderate <input type="checkbox"/> 4 - 10% (2 - 6°) Steep <input type="checkbox"/> >10% (>6°) Very Steep	
<u>Observed Use</u> <input type="checkbox"/> Boating <input type="checkbox"/> Shellfishing <input type="checkbox"/> Swimming <input type="checkbox"/> Irrigation <input type="checkbox"/> Fishing <input checked="" type="checkbox"/> Drainage <input type="checkbox"/> Drinking <input type="checkbox"/> Aquaculture <input type="checkbox"/> Other		<u>Width (ft.) across Existing Water</u> 0 Flood Plain <input type="checkbox"/> Yes, Measure Bankfull Width (ft.) Present? <input checked="" type="checkbox"/> No, Measure Top of Bank Width (ft.) 8 <u>Width (ft.) across Ordinary High Water Mark*</u> 4 <u>*Ordinary High Water Mark Indicators</u> <input checked="" type="checkbox"/> Natural Line Impressed on Bank <input type="checkbox"/> Scour <input type="checkbox"/> Wrack <input type="checkbox"/> Matted, bent, or Absent Vegetation <input type="checkbox"/> Water Staining <input type="checkbox"/> Soil Character Change <input type="checkbox"/> Shelving <input type="checkbox"/> Terrestrial Vegetation Destroyed <input checked="" type="checkbox"/> Bed & Banks <input type="checkbox"/> Disturbed/Washed-away Leaf Litter <input type="checkbox"/> Litter & Debris <input type="checkbox"/> Plant Community Change <input type="checkbox"/> Sediment Sorting <input type="checkbox"/> Multiple Observed Flow Events <input type="checkbox"/> Deposition	
<u>Bank Slope</u> 0 - 8% (0 - 5°) Nearly Level - Gently Sloping 8 - 15% (5 - 9°) Moderately Sloping 15 - 25% (9 - 14°) Steeply Sloping 25 - 35% (14 - 20°) Steep >35% (>20°) Very Steep		<u>Bank Height (ft.)</u> Left* 3 Right* 3 <i>* Direction when facing downstream</i>	
<u>Bank Substrate</u> <input type="checkbox"/> Shale <input type="checkbox"/> Gravel <input checked="" type="checkbox"/> Silt/Clay <input type="checkbox"/> Cobble <input type="checkbox"/> Bedrock <input type="checkbox"/> Sand <input type="checkbox"/> Riprap <input type="checkbox"/> Organic <input type="checkbox"/> Other Comments		<u>Aquatic Habitat</u> <input type="checkbox"/> Aquatic Vegetation <input type="checkbox"/> Mud Bar <input checked="" type="checkbox"/> Overhanging Vegetation <input type="checkbox"/> Sand Bar <input type="checkbox"/> Undercut Banks <input type="checkbox"/> Riffle - Pool <input type="checkbox"/> Gravel Bar <input type="checkbox"/> Plunge Pools <input type="checkbox"/> Other	
		<u>Estimated Canopy Closure</u> <input type="checkbox"/> 0 - 10% <input checked="" type="checkbox"/> 50 - 60% <input type="checkbox"/> 10 - 20% <input type="checkbox"/> 60 - 70% <input type="checkbox"/> 20 - 30% <input type="checkbox"/> 70 - 80% <input type="checkbox"/> 30 - 40% <input type="checkbox"/> 80 - 90% <input type="checkbox"/> 40 - 50% <input type="checkbox"/> 90 - 100%	



Stream Inventory Data Form

Stream Delineation ID S-JJB-1

Adjacent Community Type <u>Forested</u>	
<u>Percent Cover</u>	<u>Dominant Species</u>
Trees <u>50</u>	Red maple, shagbark hickory
Shrubs <u>10</u>	Buckthorn
Herbaceous _____	_____
Woody Vines _____	_____
Bare Soil/Rock _____	Type _____
Impervious _____	Type _____

<u>Observed Fauna</u>				
<input type="checkbox"/> Waterfowl	<input type="checkbox"/> Fish	<input type="checkbox"/> Salamanders	<input type="checkbox"/> Mink	<input type="checkbox"/> Other _____
<input type="checkbox"/> Snakes	<input checked="" type="checkbox"/> Frogs	<input type="checkbox"/> Beaver	<input type="checkbox"/> Otter	_____
<input type="checkbox"/> Turtles	<input type="checkbox"/> Toads	<input type="checkbox"/> Muskrat	<input type="checkbox"/> Invertebrates	_____

<u>Presence of Rare, Threatened, or Endangered Species</u>	
<input type="checkbox"/> No	<input type="checkbox"/> Yes <i>Species & Evidence</i> _____
<input checked="" type="checkbox"/> Undetermined _____	

<u>Notes (include weather, site access issues, culverts, etc.)</u>	
80 degrees Fahrenheit and sunny, heavy rain previous day	

Sketch (Optional)	
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Stream Inventory Data Form

Project Name <u>NextEra Trelina</u>		Date <u>7/24/2019</u>	
Project Number <u>328807</u>		Evaluated By <u>Nick DeJohn</u>	
Address _____			
USGS Quadrangle(s): <u>Geneva, NY</u>			
Stream Delineation ID <u>S-JJB-2</u>		Stream Name _____	
Stream Location <u>East side of Serven Road, flowing SE from PUB into linear wetland feature</u>			
(e.g. nearest road, structure) _____			
Presumed Regulatory Authority _____		Likely NYSDEC mapped Class C stream (898-396)	
<input checked="" type="checkbox"/> U.S. Army Corps <input type="checkbox"/> State		Rationale: _____	
<u>Stream Class</u> <input type="checkbox"/> Perennial <input checked="" type="checkbox"/> Intermittent <input type="checkbox"/> Ephemeral <input type="checkbox"/> Undetermined	<u>Observed Hydrology</u> Flow <input checked="" type="checkbox"/> Dry <input type="checkbox"/> Low <input type="checkbox"/> Moderate Stage <input type="checkbox"/> High <input type="checkbox"/> Flood Flow Direction <u>Southeast</u> Average Depth <u>0 inches</u>	Width (ft.) across Existing Water <u>0</u> Flood Plain <input type="checkbox"/> Yes, Measure Bankfull Width (ft.) Present? <input checked="" type="checkbox"/> No, Measure Top of Bank Width (ft.) <u>10</u> Width (ft.) across Ordinary High Water Mark* <u>5</u> <u>*Ordinary High Water Mark Indicators</u> <input checked="" type="checkbox"/> Natural Line Impressed on Bank <input type="checkbox"/> Scour <input type="checkbox"/> Wrack <input type="checkbox"/> Matted, bent, or Absent Vegetation <input type="checkbox"/> Water Staining <input type="checkbox"/> Soil Character Change <input type="checkbox"/> Shelving <input type="checkbox"/> Terrestrial Vegetation Destroyed <input checked="" type="checkbox"/> Bed & Banks <input type="checkbox"/> Disturbed/Washed-away Leaf Litter <input type="checkbox"/> Litter & Debris <input type="checkbox"/> Plant Community Change <input type="checkbox"/> Sediment Sorting <input type="checkbox"/> Multiple Observed Flow Events <input type="checkbox"/> Deposition	
<u>Streambed Substrate</u> <input type="checkbox"/> Shale <input type="checkbox"/> Sand <input type="checkbox"/> Bedrock <input type="checkbox"/> Organic <input type="checkbox"/> Boulders <input type="checkbox"/> Cobble/Gravel <input checked="" type="checkbox"/> Silt <input checked="" type="checkbox"/> Clay <input type="checkbox"/> Other _____	<u>Channel Gradient</u> <input type="checkbox"/> <2% (<1°) Gentle <input checked="" type="checkbox"/> 2 - 4% (1 - 2°) Moderate <input type="checkbox"/> 4 - 10% (2 - 6°) Steep <input type="checkbox"/> >10% (>6°) Very Steep	<u>Observed Use</u> <input type="checkbox"/> Boating <input type="checkbox"/> Shellfishing <input type="checkbox"/> Swimming <input type="checkbox"/> Irrigation <input type="checkbox"/> Fishing <input checked="" type="checkbox"/> Drainage <input type="checkbox"/> Drinking <input type="checkbox"/> Aquaculture <input type="checkbox"/> Other _____	
<u>Bank Slope</u> 0 - 8% (0 - 5°) Nearly Level - Gently Sloping 8 - 15% (5 - 9°) Moderately Sloping 15 - 25% (9 - 14°) Steeply Sloping 25 - 35% (14 - 20°) Steep >35% (>20°) Very Steep		<u>Bank Height (ft.)</u> Left* <u>5</u> Right* <u>5</u> * Direction when facing downstream	<u>Bank Erosion Potential</u> Left* Right* Low _____ Moderate <u>X</u> <u>X</u> High _____
<u>Bank Substrate</u> <input type="checkbox"/> Shale <input type="checkbox"/> Gravel <input checked="" type="checkbox"/> Silt/Clay <input type="checkbox"/> Cobble <input type="checkbox"/> Bedrock <input type="checkbox"/> Sand <input type="checkbox"/> Riprap <input type="checkbox"/> Organic <input type="checkbox"/> Other _____ Comments _____	<u>Aquatic Habitat</u> <input type="checkbox"/> Aquatic Vegetation <input type="checkbox"/> Mud Bar <input checked="" type="checkbox"/> Overhanging Vegetation <input type="checkbox"/> Sand Bar <input type="checkbox"/> Undercut Banks <input type="checkbox"/> Riffle - Pool <input type="checkbox"/> Gravel Bar <input type="checkbox"/> Plunge Pools <input type="checkbox"/> Other _____		<u>Estimated Canopy Closure</u> <input type="checkbox"/> 0 - 10% <input type="checkbox"/> 50 - 60% <input type="checkbox"/> 10 - 20% <input checked="" type="checkbox"/> 60 - 70% <input type="checkbox"/> 20 - 30% <input type="checkbox"/> 70 - 80% <input type="checkbox"/> 30 - 40% <input type="checkbox"/> 80 - 90% <input type="checkbox"/> 40 - 50% <input type="checkbox"/> 90 - 100%

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Trelina City/County: Waterloo, Seneca Sampling Date: 2019-July-09
 Applicant/Owner: NextEra State: NY Sampling Point: W-JJB-01; PEM-1
 Investigator(s): Jake Brillo, Nick DeJohn Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none): Concave Slope (%): 0-1
 Subregion (LRR or MLRA): LRR L Lat: 42.9001448304 Long: -76.952117309 Datum: WGS84
 Soil Map Unit Name: Muck, deep 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-JJB-01</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:					

VEGETATION -- Use scientific names of plants.

Sampling Point: W-JJB-01; 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.	<i>Acer rubrum</i>	15	Yes	FAC
2.	<i>Cephalanthus occidentalis</i>	5	Yes	OBL
3.				
4.				
5.				
6.				
7.				
		20	= Total Cover	

Herb Stratum (Plot size: 5 ft)		Absolute % Cover	Dominant Species?	Indicator Status
1.	<i>Carex crinita</i>	35	Yes	OBL
2.	<i>Typha latifolia</i>	20	Yes	OBL
3.	<i>Carex hystericina</i>	20	Yes	OBL
4.	<i>Phalaris arundinacea</i>	10	No	FACW
5.	<i>Leersia oryzoides</i>	7	No	OBL
6.	<i>Juncus effusus</i>	3	No	OBL
7.	<i>Alisma subcordatum</i>	2	No	OBL
8.				
9.				
10.				
11.				
12.				
		97	= Total Cover	

Woody Vine Stratum (Plot size: 30 ft)		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 92	x 1 = 92
FACW species 10	x 2 = 20
FAC species 15	x 3 = 45
FACU species 0	x 4 = 0
UPL species 0	x 5 = 0
Column Totals 117	(A) 157 (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-JJB-01; 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-July-08
 Applicant/Owner: NextEra State: NY Sampling Point: W-JJB-01; PFO-1
 Investigator(s): Jake Brillo, Nick DeJohn Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): Swamp Local relief (concave, convex, none): Concave Slope (%): 1-10
 Subregion (LRR or MLRA): LRR L Lat: 42.8983145999 Long: -76.9528859296 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-JJB-01</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 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 checked="" 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 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 <input checked="" type="checkbox"/> No ____	Depth (inches):	<u>12</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-JJB-01; PFO-1

Tree Stratum (Plot size: 30 ft)				Dominance Test worksheet:	
	Absolute % Cover	Dominant Species?	Indicator Status		
1. <i>Fraxinus pennsylvanica</i>	30	Yes	FACW	Number of Dominant Species That Are OBL, FACW, or FAC:	5 (A)
2. _____	_____	_____	_____	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	82 x 1 = 82
7. _____	_____	_____	_____	FACW species	55 x 2 = 110
	30 = Total Cover			FAC species	0 x 3 = 0
Sapling/Shrub Stratum (Plot size: 15 ft)				FACU species	0 x 4 = 0
1. <i>Cephalanthus occidentalis</i>	35	Yes	OBL	UPL species	0 x 5 = 0
2. <i>Acer saccharinum</i>	10	Yes	FACW	Column Totals	137 (A) 192 (B)
3. _____	_____	_____	_____	Prevalence Index = B/A = 1.4	
4. _____	_____	_____	_____	Hydrophytic Vegetation Indicators:	
5. _____	_____	_____	_____	<input checked="" type="checkbox"/> 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	
	45 = Total Cover			____ 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)	
Herb Stratum (Plot size: 5 ft)				____ Problematic Hydrophytic Vegetation ¹ (Explain)	
1. <i>Carex vesicaria</i>	35	Yes	OBL	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic	
2. <i>Impatiens capensis</i>	15	Yes	FACW	Definitions of Vegetation Strata:	
3. <i>Sparganium americanum</i>	12	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. _____	_____	_____	_____		
	62 = 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-JJB-01; PFO-1

[illegible]

Hydrology Photos



Vegetation Photos



Soil Photos



Photo of Sample Plot





WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Trelina City/County: Waterloo, Seneca Sampling Date: 2019-July-09
 Applicant/Owner: NextEra State: NY Sampling Point: W-JJB-01; PFO-2
 Investigator(s): Jake Brillo, Nick DeJohn Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none): Concave Slope (%): 0-1
 Subregion (LRR or MLRA): LRR L Lat: 42.8953090171 Long: -76.9533955493 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-JJB-01</u>
Remarks: (Explain alternative procedures here or in a separate report)		
<p>TRC coverype is PFO. Wetter than average season</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 checked="" type="checkbox"/> Surface Soil Cracks (B6)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input checked="" type="checkbox"/> Drainage Patterns (B10)
<input checked="" type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)	<input checked="" type="checkbox"/> Moss Trim Lines (B16)
<input checked="" 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 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 ____ No <u>✓</u>	
Saturation Present?	Yes <u>✓</u> No ____	
(includes capillary fringe)		
Depth (inches): _____		
Depth (inches): _____		
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-JJB-01; PFO-2

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. _____	_____	_____	_____	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	0 x 1 = 0
7. _____	_____	_____	_____	FACW species	4 x 2 = 8
	60 = Total Cover			FAC species	67 x 3 = 201
Sapling/Shrub Stratum (Plot size: <u>15 ft</u>)				FACU species	0 x 4 = 0
1. <i>Acer rubrum</i>	5	Yes	FAC	UPL species	0 x 5 = 0
2. _____	_____	_____	_____	Column Totals	71 (A) 209 (B)
3. _____	_____	_____	_____	Prevalence Index = B/A = <u>2.9</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	
	5 = 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>Arisaema triphyllum</i>	2	Yes	FAC	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic	
2. <i>Onoclea sensibilis</i>	2	Yes	FACW	Definitions of Vegetation Strata:	
3. <i>Carex bromoides</i>	2	Yes	FACW	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. _____	_____	_____	_____		
	6 = 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-JJB-01; PFO-2

[illegible]



Vegetation Photos



Soil Photos



WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Trelina City/County: , Sampling Date: 2019-July-08
 Applicant/Owner: NextEra State: Sampling Point: W-JJB-01; PUB-1
 Investigator(s): Jake Brillo, Nick DeJohn Section, Township, Range:
 Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none): Concave Slope (%): 0-1
 Subregion (LRR or MLRA): LRR L Lat: 42.899679 Long: -76.957194 Datum: WGS84
 Soil Map Unit Name: Lakemont silty clay loam, 0 to 3 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-JJB-01
Wetland Hydrology Present?	Yes <input checked="" type="checkbox"/> No ____		
Remarks: (Explain alternative procedures here or in a separate report)			
TRC coertype is PUB.			

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 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 <input checked="" type="checkbox"/> No ____	Depth (inches): 36
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:		
A positive indication of wetland hydrology was observed (at least one primary indicator).		

VEGETATION -- Use scientific names of plants.

Sampling Point: W-JJB-01; PUB-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. <i>Cephalanthus occidentalis</i>	15	Yes	OBL		
2. _____	_____	_____	_____		
3. _____	_____	_____	_____		
4. _____	_____	_____	_____		
5. _____	_____	_____	_____		
6. _____	_____	_____	_____		
7. _____	_____	_____	_____		
	15	= Total Cover			
Herb Stratum (Plot size: <u>5 ft</u>)					
1. <i>Decodon verticillatus</i>	15	Yes	OBL		
2. <i>Typha latifolia</i>	10	Yes	OBL		
3. <i>Sagittaria latifolia</i>	5	No	OBL		
4. _____	_____	_____	_____		
5. _____	_____	_____	_____		
6. _____	_____	_____	_____		
7. _____	_____	_____	_____		
8. _____	_____	_____	_____		
9. _____	_____	_____	_____		
10. _____	_____	_____	_____		
11. _____	_____	_____	_____		
12. _____	_____	_____	_____		
	30	= 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	45	x 1 =	45
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	45	(A)	45 (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-JJB-01; PUB-1

[illegible]

Vegetation Photos



Photo of Sample Plot



WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Trelina City/County: Geneva, Seneca Sampling Date: 2019-July-10
 Applicant/Owner: NextEra State: NY Sampling Point: W-JJB-01; UPL-1
 Investigator(s): Jake Brillo, Nick DeJohn Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): Agricultural Field Local relief (concave, convex, none): Flat Slope (%): 1-10
 Subregion (LRR or MLRA): LRR R Lat: 42.8995522717 Long: -76.9575326052 Datum: WGS84
 Soil Map Unit Name: _____ 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 season		

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-JJB-01; 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>Poa pratensis</i>	25	Yes	FACU
2.	<i>Ambrosia artemisiifolia</i>	10	Yes	FACU
3.				
4.				
5.				
6.				
7.				
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.)

Active agricultural field

SOIL

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

[illegible]

Vegetation Photos



Soil Photos



Photo of Sample Plot





WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Trelina City/County: Waterloo, Seneca Sampling Date: 2019-July-08
 Applicant/Owner: NextEra State: NY Sampling Point: W-JJB-01; UPL-2
 Investigator(s): Jake Brillo, Nick DeJohn Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): Hillslope Local relief (concave, convex, none): Flat Slope (%): 1-10
 Subregion (LRR or MLRA): LRR L Lat: 42.8983770451 Long: -76.9528581016 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 ____ 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. 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): _____ 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-JJB-01; UPL-2

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>)		Absolute % Cover	Dominant Species?	Indicator Status
1.	<i>Acer rubrum</i>	55	Yes	FAC
2.				
3.				
4.				
5.				
6.				
7.				
		55	= Total Cover	
Herb Stratum (Plot size: <u>5 ft</u>)		Absolute % Cover	Dominant Species?	Indicator Status
1.	<i>Solidago rugosa</i>	15	Yes	FAC
2.	<i>Parthenocissus quinquefolia</i>	12	Yes	FACU
3.	<i>Toxicodendron radicans</i>	8	Yes	FAC
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
		35	= 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: 3 (A)

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

Percent of Dominant Species That Are OBL, FACW, or FAC: 75 (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>78</u>	x 3 =	<u>234</u>
FACU species	<u>12</u>	x 4 =	<u>48</u>
UPL species	<u>0</u>	x 5 =	<u>0</u>
Column Totals	<u>90</u>	(A)	<u>282</u> (B)
Prevalence Index = B/A = <u>3.1</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-JJB-01; UPL-2

[illegible]

Vegetation Photos



Soil Photos



Photo of Sample Plot



WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Trelina City/County: Waterloo, Seneca Sampling Date: 2019-July-09
 Applicant/Owner: NextEra State: NY Sampling Point: W-JJB-01; UPL-3
 Investigator(s): Jake Brillo, Nick DeJohn Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): Hillslope Local relief (concave, convex, none): Flat Slope (%): 1-10
 Subregion (LRR or MLRA): LRR L Lat: 42.900330741 Long: -76.9520034828 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 season		

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-JJB-01; UPL-3

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>3</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>98</u>	x 4 =	<u>392</u>
1. _____	_____	_____	_____	UPL species	<u>0</u>	x 5 =	<u>0</u>
2. _____	_____	_____	_____	Column Totals	<u>98</u>	(A)	<u>392</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>Phleum pratense</i>	<u>30</u>	Yes	FACU	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic			
2. <i>Solidago altissima</i>	<u>28</u>	Yes	FACU	Definitions of Vegetation Strata:			
3. <i>Erigeron strigosus</i>	<u>25</u>	Yes	FACU	Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.			
4. <i>Dactylis glomerata</i>	<u>15</u>	No	FACU	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>98</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-JJB-01; UPL-3

[illegible]

Vegetation Photos



Soil Photos



Photo of Sample Plot



WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Trelina City/County: Waterloo, Seneca Sampling Date: 2019-July-09
 Applicant/Owner: NextEra State: NY Sampling Point: W-JJB-01; UPL-4
 Investigator(s): Jake Brillo, Nick DeJohn Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): Hillslope Local relief (concave, convex, none): Convex Slope (%): 2-5
 Subregion (LRR or MLRA): LRR L Lat: 42.8952402436 Long: -76.953150211 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 ____ 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-JJB-01; UPL-4

Tree Stratum (Plot size: <u>30 ft</u>)	Absolute % Cover	Dominant Species?	Indicator Status
1. <i>Betula alleghaniensis</i>	50	Yes	FAC
2. <i>Fagus grandifolia</i>	10	No	FACU
3. <i>Prunus serotina</i>	5	No	FACU
4. _____	_____	_____	_____
5. _____	_____	_____	_____
6. _____	_____	_____	_____
7. _____	_____	_____	_____
	65 = Total Cover		
Sapling/Shrub Stratum (Plot size: <u>15 ft</u>)			
1. <i>Carpinus caroliniana</i>	10	Yes	FAC
2. <i>Betula alleghaniensis</i>	8	Yes	FAC
3. _____	_____	_____	_____
4. _____	_____	_____	_____
5. _____	_____	_____	_____
6. _____	_____	_____	_____
7. _____	_____	_____	_____
	18 = Total Cover		
Herb Stratum (Plot size: <u>5 ft</u>)			
1. <i>Dennstaedtia punctilobula</i>	25	Yes	UPL
2. <i>Polystichum acrostichoides</i>	12	Yes	FACU
3. <i>Podophyllum peltatum</i>	8	No	FACU
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: 3 (A)

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

Percent of Dominant Species That Are OBL, FACW, or FAC: 60 (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>68</u>	x 3 = <u>204</u>
FACU species <u>35</u>	x 4 = <u>140</u>
UPL species <u>25</u>	x 5 = <u>125</u>
Column Totals <u>128</u>	(A) <u>469</u> (B)
Prevalence Index = B/A = <u>3.7</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-JJB-01; UPL-4

[illegible]

Vegetation Photos



Soil Photos



WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Trelina City/County: Waterloo, Seneca Sampling Date: 2019-July-09
 Applicant/Owner: NextEra State: NY Sampling Point: W-JJB-03; PEM-1
 Investigator(s): Jake Brillo, Nick DeJohn Section, Township, Range:
 Landform (hillslope, terrace, etc.): Agricultural Field Local relief (concave, convex, none): Concave Slope (%): 1-10
 Subregion (LRR or MLRA): LRR L Lat: 42.893599486 Long: -76.9497857989 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-JJB-03
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 season			

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 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 checked="" 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 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 ___ No <input checked="" type="checkbox"/>	Depth (inches):	
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-JJB-03; PEM-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:	2	(A)		
2. _____	_____	_____	_____	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	75	x 1 =	75	
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	0	x 4 =	0	
1. _____	_____	_____	_____	UPL species	0	x 5 =	0	
2. _____	_____	_____	_____	Column Totals	75	(A)	75 (B)	
3. _____	_____	_____	_____	Prevalence Index = B/A = <u>1</u>				
4. _____	_____	_____	_____	Hydrophytic Vegetation Indicators:				
5. _____	_____	_____	_____	<input checked="" type="checkbox"/> 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			<input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)			
Herb Stratum (Plot size: <u>5 ft</u>)				<input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain)				
1. <i>Eleocharis obtusa</i>	55	Yes	OBL	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic				
2. <i>Alisma subcordatum</i>	15	Yes	OBL					
3. <i>Ranunculus sceleratus</i>	5	No	OBL					
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 <input checked="" type="checkbox"/> No <input type="checkbox"/>				
10. _____	_____	_____	_____					
11. _____	_____	_____	_____					
12. _____	_____	_____	_____					
	75	= 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-JJB-03; PEM-1

[illegible]

Hydrology Photos



Vegetation Photos



Soil Photos



Photo of Sample Plot







WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Trelina City/County: Waterloo, Seneca Sampling Date: 2019-July-09
 Applicant/Owner: NextEra State: NY Sampling Point: W-JJB-03; UPL-1
 Investigator(s): Jake Brillo, Nick DeJohn 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: 42.8935389687 Long: -76.9498516806 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 <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 season			

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-JJB-03; 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>Glycine max</i>	45	Yes	NI
2.				
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.)

 Active agricultural field

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)	
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>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 = <u> </u>			
Hydrophytic Vegetation Indicators:			
<u> </u> 1- Rapid Test for Hydrophytic Vegetation			
<u> </u> 2 - Dominance Test is > 50%			
<u> </u> 3 - Prevalence Index is ≤ 3.0 ¹			
<u> </u> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)			
<u> </u> 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.			
Hydrophytic Vegetation Present? Yes <u> </u> No <u>✓</u>			

SOIL

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

[illegible]

Vegetation Photos



Soil Photos



Photo of Sample Plot





WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Trelina City/County: Geneva, Seneca Sampling Date: 2019-July-23
 Applicant/Owner: NextEra State: NY Sampling Point: W-JJB-04; PEM-1
 Investigator(s): Jake Brillo, Nick DeJohn 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: 42.8911253577 Long: -76.9552323595 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 ____	Wetland Hydrology Present?	Yes <u>✓</u> No ____
		If yes, optional Wetland Site ID:	<u>W-JJB-04</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 season			

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 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 checked="" 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 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 ____ No <u>✓</u>	Depth (inches):	
Water Table Present?	Yes ____ No <u>✓</u>	Depth (inches):	
Saturation Present?	Yes <u>✓</u> No ____	Depth (inches):	<u>2</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-JJB-04; 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>Poa palustris</i>	55	Yes	FACW	
2. <i>Eleocharis obtusa</i>	20	No	OBL	
3. <i>Juncus tenuis</i>	17	No	FAC	
4. <i>Juncus effusus</i>	12	No	OBL	
5. <i>Typha latifolia</i>	5	No	OBL	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
11. _____	_____	_____	_____	
12. _____	_____	_____	_____	
	109	= 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 37	x 1 = 37
FACW species 55	x 2 = 110
FAC species 17	x 3 = 51
FACU species 0	x 4 = 0
UPL species 0	x 5 = 0
Column Totals 109	(A) 198 (B)

Prevalence Index = B/A = 1.8

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-JJB-04; PEM-1

[illegible]

Vegetation Photos



Soil Photos



Photo of Sample Plot





WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Trelina City/County: Waterloo, Seneca Sampling Date: 2019-July-09
 Applicant/Owner: NextEra State: NY Sampling Point: W-JJB-04; PFO-1
 Investigator(s): Jake Brillo, Nick DeJohn Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none): Concave Slope (%): 0-1
 Subregion (LRR or MLRA): LRR L Lat: 42.8939439822 Long: -76.9546148647 Datum: WGS84
 Soil Map Unit Name: Odessa silt loam, 0 to 3 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-JJB-04
Wetland Hydrology Present?	Yes <u>✓</u> No ____		
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 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 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 checked="" 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 ____ No <u>✓</u>	Wetland Hydrology Present? Yes <u>✓</u> No ____
Water Table Present?	Yes ____ No <u>✓</u>	
Saturation Present?	Yes <u>✓</u> No ____	
(includes capillary fringe)		
Depth (inches): _____		
Depth (inches): _____		
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-JJB-04; PFO-1

Tree Stratum (Plot size: <u>30 ft</u>)	Absolute % Cover	Dominant Species?	Indicator Status
1. <i>Acer rubrum</i>	35	Yes	FAC
2. <i>Betula alleghaniensis</i>	12	Yes	FAC
3. <i>Fagus grandifolia</i>	10	No	FACU
4. _____	_____	_____	_____
5. _____	_____	_____	_____
6. _____	_____	_____	_____
7. _____	_____	_____	_____
	57	= Total Cover	
Sapling/Shrub Stratum (Plot size: <u>15 ft</u>)			
1. <i>Acer rubrum</i>	15	Yes	FAC
2. <i>Carpinus caroliniana</i>	5	Yes	FAC
3. _____	_____	_____	_____
4. _____	_____	_____	_____
5. _____	_____	_____	_____
6. _____	_____	_____	_____
7. _____	_____	_____	_____
	20	= Total Cover	
Herb Stratum (Plot size: <u>5 ft</u>)			
1. <i>Dryopteris carthusiana</i>	15	Yes	FACW
2. <i>Carex grayi</i>	5	Yes	FACW
3. <i>Arisaema triphyllum</i>	3	No	FAC
4. _____	_____	_____	_____
5. _____	_____	_____	_____
6. _____	_____	_____	_____
7. _____	_____	_____	_____
8. _____	_____	_____	_____
9. _____	_____	_____	_____
10. _____	_____	_____	_____
11. _____	_____	_____	_____
12. _____	_____	_____	_____
	23	= 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: 6 (A)

Total Number of Dominant Species Across All Strata: 6 (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>0</u>	x 1 = <u>0</u>
FACW species <u>20</u>	x 2 = <u>40</u>
FAC species <u>70</u>	x 3 = <u>210</u>
FACU species <u>10</u>	x 4 = <u>40</u>
UPL species <u>0</u>	x 5 = <u>0</u>
Column Totals <u>100</u>	(A) <u>290</u> (B)

Prevalence Index = B/A = 2.9

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-JJB-04; PFO-1

[illegible]

Vegetation Photos



Soil Photos



WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Trelina City/County: Waterloo, Seneca Sampling Date: 2019-July-09
 Applicant/Owner: NextEra State: NY Sampling Point: W-JJB-04; UPL-1
 Investigator(s): Jake Brillo, Nick DeJohn Section, Township, Range:
 Landform (hillslope, terrace, etc.): Hillslope Local relief (concave, convex, none): Convex Slope (%): 2-5
 Subregion (LRR or MLRA): LRR L Lat: 42.8942510952 Long: -76.9548983407 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 <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-JJB-04; UPL-1

Tree Stratum (Plot size: <u>30 ft</u>)				Dominance Test worksheet:			
	Absolute % Cover	Dominant Species?	Indicator Status				
1. <i>Fagus grandifolia</i>	40	Yes	FACU	Number of Dominant Species That Are OBL, FACW, or FAC:			1 (A)
2. <i>Acer saccharum</i>	20	Yes	FACU	Total Number of Dominant Species Across All Strata:			3 (B)
3. _____	_____	_____	_____	Percent of Dominant Species That Are OBL, FACW, or FAC:			33.3 (A/B)
4. _____	_____	_____	_____				
5. _____	_____	_____	_____				
6. _____	_____	_____	_____				
7. _____	_____	_____	_____				
	60	= 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	0	x 2 =	0
3. _____	_____	_____	_____	FAC species	10	x 3 =	30
4. _____	_____	_____	_____	FACU species	60	x 4 =	240
5. _____	_____	_____	_____	UPL species	0	x 5 =	0
6. _____	_____	_____	_____	Column Totals	70	(A)	270 (B)
7. _____	_____	_____	_____	Prevalence Index = B/A = <u>3.9</u>			
	0	= Total Cover					
Herb Stratum (Plot size: <u>5 ft</u>)				Hydrophytic Vegetation Indicators:			
1. <i>Osmunda claytoniana</i>	10	Yes	FAC	____ 1- Rapid Test for Hydrophytic Vegetation			
2. _____	_____	_____	_____	____ 2 - Dominance Test is > 50%			
3. _____	_____	_____	_____	____ 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 ____ No <u>✓</u>			
Remarks: (Include photo numbers here or on a separate sheet.)							

SOIL

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

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features					
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0 - 8	10YR 3/3	100					Silt Loam	
8 - 20	10YR 5/8	100					Silt Loam	

¹Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. ²Location: 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)

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):			Hydric Soil Present?	Yes ____ No <input checked="" type="checkbox"/>
Type:	<div>None</div>			
Depth (inches):				

Remarks:

Vegetation Photos



Soil Photos



WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Trelina City/County: Geneva, Seneca Sampling Date: 2019-July-23
 Applicant/Owner: NextEra State: NY Sampling Point: W-JJB-04; UPL-2
 Investigator(s): Jake Brillo, Nick DeJohn Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): Agricultural Field Local relief (concave, convex, none): Flat Slope (%): 1-10
 Subregion (LRR or MLRA): LRR L Lat: 42.8911941732 Long: -76.9553020132 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, Wetter than average season		

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-JJB-04; UPL-2

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>	18	Yes	FACU	
2. <i>Poa pratensis</i>	15	Yes	FACU	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
11. _____	_____	_____	_____	
12. _____	_____	_____	_____	
	33	= 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 33	x 4 = 132
UPL species 0	x 5 = 0
Column Totals 33	(A) 132 (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.)

Active agricultural field

SOIL

Sampling Point: W-JJB-04; UPL-2

[illegible]

Vegetation Photos



Soil Photos



WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Trelina City/County: Geneva, Seneca Sampling Date: 2019-July-09
 Applicant/Owner: NextEra State: NY Sampling Point: W-JJB-06; PEM-1
 Investigator(s): Jake Brillo, Nick DeJohn 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: 42.8899678169 Long: -76.958597526 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 ____
		If yes, optional Wetland Site ID:	<u>W-JJB-06</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 season			

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 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 checked="" 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 checked="" type="checkbox"/> FAC-Neutral Test (D5)	
Field Observations:			
Surface Water Present?	Yes ____ No <u>✓</u>	Depth (inches):	
Water Table Present?	Yes <u>✓</u> No ____	Depth (inches):	<u>3</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-JJB-06; 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 obtusa</i>	25	Yes	OBL		
2. <i>Alisma triviale</i>	15	Yes	OBL		
3. <i>Schoenoplectus tabernaemontani</i>	10	No	OBL		
4. <i>Juncus effusus</i>	8	No	OBL		
5. _____	_____	_____	_____		
6. _____	_____	_____	_____		
7. _____	_____	_____	_____		
8. _____	_____	_____	_____		
9. _____	_____	_____	_____		
10. _____	_____	_____	_____		
11. _____	_____	_____	_____		
12. _____	_____	_____	_____		
	58	= 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	58	x 1 =	58
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	58	(A)	58 (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-JJB-06; PEM-1

[illegible]

Hydrology Photos



Vegetation Photos



Photo of Sample Plot



WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Trelina City/County: Geneva, Sampling Date: 2019-July-09
 Applicant/Owner: NextEra State: NY Sampling Point: W-JJB-06; UPL-1
 Investigator(s): Jake Brillo, Nick DeJohn Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): Agricultural Field Local relief (concave, convex, none): Convex Slope (%): 1-10
 Subregion (LRR or MLRA): LRR L Lat: 42.890324 Long: -76.958636 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 type="checkbox"/> No <input checked="" type="checkbox"/>	
Hydric Soil Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Wetland Hydrology Present?	Yes <input type="checkbox"/> 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 <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Saturation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ (includes capillary fringe)			Wetland Hydrology Present? Yes <input type="checkbox"/> 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-JJB-06; 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>)		Absolute % Cover	Dominant Species?	Indicator Status
1.				
2.				
3.				
4.				
5.				
6.				
7.				
		0	= Total Cover	

Herb Stratum (Plot size: <u>5 ft</u>)		Absolute % Cover	Dominant Species?	Indicator Status
1.	<i>Poa pratensis</i>	60	Yes	FACU
2.	<i>Taraxacum officinale</i>	20	Yes	FACU
3.	<i>Trifolium repens</i>	15	No	FACU
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
		95	= 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: 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>95</u>	x 4 = <u>380</u>
UPL species <u>0</u>	x 5 = <u>0</u>
Column Totals <u>95</u>	(A) <u>380</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-JJB-06; UPL-1

[illegible]

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Trelina City/County: Geneva, Seneca Sampling Date: 2019-July-10
 Applicant/Owner: NextEra State: NY Sampling Point: W-JJB-07; PEM-1
 Investigator(s): Jake Brillo, Nick DeJohn 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: 42.8923983593 Long: -76.9607002941 Datum: WGS84
 Soil Map Unit Name: Odessa silt loam, 0 to 3 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-JJB-07</u>
Remarks: (Explain alternative procedures here or in a separate report)		
<p>TRC coverype is PEM. Circumstances are not normal due to agricultural activities, Ditches/drain tiles observed, Wetter than average season</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 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 checked="" 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 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 ____ No <u>✓</u>	Wetland Hydrology Present? Yes <u>✓</u> No ____
Water Table Present?	Yes ____ No <u>✓</u>	
Saturation Present?	Yes <u>✓</u> No ____	
(includes capillary fringe)		
Depth (inches): _____		
Depth (inches): _____		
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-JJB-07; PEM-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:	1	(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	42	x 1 =	42	
7. _____	_____	_____	_____	FACW species	85	x 2 =	170	
	0	= Total Cover			FAC species	0	x 3 =	0
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	127	(A)	212 (B)	
3. _____	_____	_____	_____	Prevalence Index = B/A = <u>1.7</u>				
4. _____	_____	_____	_____	Hydrophytic Vegetation Indicators:				
5. _____	_____	_____	_____	<input checked="" type="checkbox"/> 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>Phalaris arundinacea</i>	85	Yes	FACW	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic				
2. <i>Juncus effusus</i>	20	No	OBL	Definitions of Vegetation Strata:				
3. <i>Eleocharis obtusa</i>	12	No	OBL	Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.				
4. <i>Carex vulpinoidea</i>	10	No	OBL	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. _____	_____	_____	_____					
	127	= 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-JJB-07; 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-July-10
 Applicant/Owner: NextEra State: NY Sampling Point: W-JJB-07; PFO-1
 Investigator(s): Jake Brillo, Nick DeJohn Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none): Concave Slope (%): 0-1
 Subregion (LRR or MLRA): LRR L Lat: 42.8922482813 Long: -76.9610124361 Datum: WGS84
 Soil Map Unit Name: Sloan 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 <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-JJB-07</u>
Remarks: (Explain alternative procedures here or in a separate report)		
<p>TRC coverype is PFO. Wetter than average season</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 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 ____ 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>4</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-JJB-07; PFO-1

Tree Stratum (Plot size: <u>30 ft</u>)				Dominance Test worksheet:	
	Absolute % Cover	Dominant Species?	Indicator Status		
1. <i>Acer saccharinum</i>	60	Yes	FACW	Number of Dominant Species That Are OBL, FACW, or FAC:	4 (A)
2. <i>Rhamnus cathartica</i>	10	No	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	10 x 1 = 10
7. _____	_____	_____	_____	FACW species	130 x 2 = 260
	70	= Total Cover		FAC species	35 x 3 = 105
Sapling/Shrub Stratum (Plot size: <u>15 ft</u>)				FACU species	0 x 4 = 0
1. <i>Rhamnus cathartica</i>	25	Yes	FAC	UPL species	0 x 5 = 0
2. <i>Fraxinus pennsylvanica</i>	5	No	FACW	Column Totals	175 (A) 375 (B)
3. _____	_____	_____	_____	Prevalence Index = B/A = <u>2.1</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	
	30	= 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>Impatiens capensis</i>	40	Yes	FACW	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic	
2. <i>Onoclea sensibilis</i>	25	Yes	FACW	Definitions of Vegetation Strata:	
3. <i>Equisetum fluviatile</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. _____	_____	_____	_____		
	75	= 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-JJB-07; PFO-1

[illegible]

Vegetation Photos



Soil Photos



WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Trelina City/County: Geneva, Seneca Sampling Date: 2019-July-10
 Applicant/Owner: NextEra State: NY Sampling Point: W-JJB-07; UPL-1
 Investigator(s): Jake Brillo, Nick DeJohn 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: 42.8923556535 Long: -76.9608043135 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: <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-JJB-07; 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>)			Absolute % Cover	Dominant Species?	Indicator Status
1.	<i>Rhamnus cathartica</i>		5	Yes	FAC
2.					
3.					
4.					
5.					
6.					
7.					
			5	= Total Cover	
Herb Stratum (Plot size: <u>5 ft</u>)			Absolute % Cover	Dominant Species?	Indicator Status
1.	<i>Trifolium repens</i>		20	Yes	FACU
2.	<i>Poaceae</i>		20	Yes	NI
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
			40	= 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: 1 (A)

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

Percent of Dominant Species That Are OBL, FACW, or FAC: 33.3 (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>5</u>	x 3 =	<u>15</u>
FACU species	<u>20</u>	x 4 =	<u>80</u>
UPL species	<u>0</u>	x 5 =	<u>0</u>
Column Totals	<u>25</u>	(A)	<u>95</u> (B)
Prevalence Index = B/A =		<u>3.8</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.)

Active agricultural field

SOIL

Sampling Point: W-JJB-07; 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-July-10
 Applicant/Owner: NextEra State: NY Sampling Point: W-JJB-07; UPL-2
 Investigator(s): Jake Brillo, Nick DeJohn 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: 42.8917093249 Long: -76.9600793627 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 <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): _____
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-JJB-07; UPL-2

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>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A/B)																
1.						Prevalence Index worksheet: <table border="0"> <tr> <td>Total % Cover of:</td> <td>Multiply By:</td> </tr> <tr> <td>OBL species <u>0</u></td> <td>x 1 = <u>0</u></td> </tr> <tr> <td>FACW species <u>0</u></td> <td>x 2 = <u>0</u></td> </tr> <tr> <td>FAC species <u>0</u></td> <td>x 3 = <u>0</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>0</u></td> <td>(A) <u>0</u> (B)</td> </tr> <tr> <td colspan="2">Prevalence Index = B/A = <u> </u></td> </tr> </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 = <u> </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>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 = <u> </u>																						
2.																						
3.																						
4.																						
5.																						
6.																						
7.																						
			<u>0</u>	= Total Cover																		
Sapling/Shrub Stratum (Plot size: <u>15 ft</u>)						Hydrophytic Vegetation Indicators: <u> </u> 1- Rapid Test for Hydrophytic Vegetation <u> </u> 2 - Dominance Test is > 50% <u> </u> 3 - Prevalence Index is ≤ 3.0 ¹ <u> </u> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <u> </u> 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.																						
			<u>0</u>	= Total Cover																		
Herb Stratum (Plot size: <u>5 ft</u>)						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>																
1.	<i>Poaceae</i>	<u>60</u>	<u>Yes</u>	<u>NI</u>																		
2.																						
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.)																						

SOIL

Sampling Point: W-JJB-07; UPL-2

[illegible]

Vegetation Photos



Soil Photos



WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Trelina City/County: Waterloo, Seneca Sampling Date: 2019-July-10
 Applicant/Owner: NextEra State: NY Sampling Point: W-JJB-08; PFO-1
 Investigator(s): Jake Brillo, Nick DeJohn Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none): Concave Slope (%): 0-1
 Subregion (LRR or MLRA): LRR L Lat: 42.8898221814 Long: -76.9467034378 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-JJB-08</u>
Remarks: (Explain alternative procedures here or in a separate report)		
<p>TRC coverype is PFO. Wetter than average season</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 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 checked="" 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 ____ 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:		

Sampling Point: W-JJB-08; PFO-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. <i>Acer rubrum</i>	35	Yes	FAC	7			(A)
2. <i>Ulmus americana</i>	10	Yes	FACW	Total Number of Dominant Species Across All Strata:			7 (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	10	x 1 =	10
7. _____	_____	_____	_____	FACW species	45	x 2 =	90
	45	= Total Cover		FAC species	45	x 3 =	135
Sapling/Shrub Stratum (Plot size: 15 ft)				FACU species	0	x 4 =	0
1. <i>Carpinus caroliniana</i>	10	Yes	FAC	UPL species	0	x 5 =	0
2. <i>Fraxinus pennsylvanica</i>	10	Yes	FACW	Column Totals	100	(A)	235 (B)
3. <i>Lindera benzoin</i>	5	Yes	FACW	Prevalence Index = B/A = 2.4			
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			
	25	= Total Cover		4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)			
Herb Stratum (Plot size: 5 ft)				Problematic Hydrophytic Vegetation ¹ (Explain)			
1. <i>Carex projecta</i>	15	Yes	FACW	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic			
2. <i>Glyceria melicaria</i>	10	Yes	OBL	Definitions of Vegetation Strata:			
3. <i>Carex grayi</i>	5	No	FACW	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 2 No 3			
8. _____	_____	_____	_____				
9. _____	_____	_____	_____				
10. _____	_____	_____	_____				
11. _____	_____	_____	_____				
12. _____	_____	_____	_____				
	30	= 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-JJB-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-July-10
 Applicant/Owner: NextEra State: NY Sampling Point: W-JJB-08; UPL-1
 Investigator(s): Nick DeJohn, Jake Brillo Section, Township, Range:
 Landform (hillslope, terrace, etc.): Upland Forest Local relief (concave, convex, none): Flat Slope (%): 0-1
 Subregion (LRR or MLRA): LRR L Lat: 42.8898974669 Long: -76.9454956998 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):
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-JJB-08; UPL-1

Tree Stratum (Plot size: <u>30 ft</u>)			Absolute % Cover	Dominant Species?	Indicator Status
1.	<i>Carya ovata</i>		40	Yes	FACU
2.	<i>Fagus grandifolia</i>		30	Yes	FACU
3.					
4.					
5.					
6.					
7.					
			70	= 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>Podophyllum peltatum</i>		20	Yes	FACU
2.	<i>Dryopteris campyloptera</i>		20	Yes	FACU
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: 4 (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>110</u>	x 4 =	<u>440</u>
UPL species	<u>0</u>	x 5 =	<u>0</u>
Column Totals	<u>110</u>	(A)	<u>440</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-JJB-08; UPL-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-July-11
 Applicant/Owner: NextEra State: NY Sampling Point: W-JJB-09; PEM-1
 Investigator(s): Jake Brillo, Nick DeJohn 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: 42.8814969818 Long: -76.9523960911 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 <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-JJB-09
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 season			

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 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 ___ No <input checked="" type="checkbox"/>	Depth (inches):
Water Table Present?	Yes ___ No <input checked="" type="checkbox"/>	Depth (inches):
Saturation Present?	Yes <input checked="" type="checkbox"/> No ___	Depth (inches): 2
(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-JJB-09; 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>Alisma triviale</i>		45	Yes	OBL
2.	<i>Eleocharis obtusa</i>		38	Yes	OBL
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
			83	= 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.)

Active agricultural field

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 83	x 1 = 83
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 83	(A) 83 (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-JJB-09; PEM-1

[illegible]

Hydrology Photos



Vegetation Photos



Soil Photos



Photo of Sample Plot







WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Trelina City/County: Geneva, Seneca Sampling Date: 2019-July-11
 Applicant/Owner: NextEra State: NY Sampling Point: W-JJB-09; UPL-1
 Investigator(s): Nick DeJohn, Jake Brillo 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: 42.8816202796 Long: -76.9525899646 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 ____ 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-JJB-09; 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>	5	Yes	NI		
2. _____	_____	_____	_____		
3. _____	_____	_____	_____		
4. _____	_____	_____	_____		
5. _____	_____	_____	_____		
6. _____	_____	_____	_____		
7. _____	_____	_____	_____		
8. _____	_____	_____	_____		
9. _____	_____	_____	_____		
10. _____	_____	_____	_____		
11. _____	_____	_____	_____		
12. _____	_____	_____	_____		
	5	= 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	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 ✓

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

Active agricultural field

SOIL

Sampling Point: W-JJB-09; UPL-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-July-11
 Applicant/Owner: NextEra State: NY Sampling Point: W-JJB-10; PEM-1
 Investigator(s): Jake Brillo, Nick DeJohn Section, Township, Range:
 Landform (hillslope, terrace, etc.): Agricultural Field Local relief (concave, convex, none): Flat Slope (%): 1-10
 Subregion (LRR or MLRA): LRR L Lat: 42.8805025947 Long: -76.954479497 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 <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-JJB-10
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 season			

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 checked="" 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 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 ___ No <input checked="" type="checkbox"/>	Depth (inches):
Water Table Present?	Yes ___ No <input checked="" type="checkbox"/>	Depth (inches):
Saturation Present?	Yes <input checked="" type="checkbox"/> No ___	Depth (inches): 1
(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-JJB-10; 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>)			Absolute % Cover	Dominant Species?	Indicator Status
1.					
2.					
3.					
4.					
5.					
6.					
7.					
			0	= Total Cover	
Herb Stratum (Plot size: <u>5 ft</u>)			Absolute % Cover	Dominant Species?	Indicator Status
1.	<i>Phragmites australis</i>		45	Yes	FACW
2.	<i>Lythrum salicaria</i>		30	Yes	OBL
3.	<i>Alisma triviale</i>		25	No	OBL
4.	<i>Eleocharis obtusa</i>		15	No	OBL
5.	<i>Juncus tenuis</i>		15	No	FAC
6.					
7.					
8.					
9.					
10.					
11.					
12.					
			130	= 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: 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	<u>70</u>	x 1 =	<u>70</u>
FACW species	<u>45</u>	x 2 =	<u>90</u>
FAC species	<u>15</u>	x 3 =	<u>45</u>
FACU species	<u>0</u>	x 4 =	<u>0</u>
UPL species	<u>0</u>	x 5 =	<u>0</u>
Column Totals	<u>130</u>	(A)	<u>205</u> (B)
Prevalence Index = B/A =		<u>1.6</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-JJB-10; PEM-1

[illegible]

Hydrology Photos



Vegetation Photos



Soil Photos



Photo of Sample Plot



Photo of Sample Plot
Sketch



WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Trelina City/County: Geneva, Seneca Sampling Date: 2019-July-11
 Applicant/Owner: NextEra State: NY Sampling Point: W-JJB-10; UPL-1
 Investigator(s): Nick DeJohn, Jake Brillo 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: 42.879505147 Long: -76.9564107038 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): _____ 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-JJB-10; 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>)			Absolute % Cover	Dominant Species?	Indicator Status
1.					
2.					
3.					
4.					
5.					
6.					
7.					
			0	= Total Cover	
Herb Stratum (Plot size: <u>5 ft</u>)			Absolute % Cover	Dominant Species?	Indicator Status
1.	<i>Glycine max</i>		5	Yes	NI
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
			5	= 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: 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>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 =

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-JJB-10; 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-July-11
 Applicant/Owner: NextEra State: NY Sampling Point: W-JJB-11; PEM-1
 Investigator(s): Jake Brillo, Nick DeJohn 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: 42.8816416953 Long: -76.9547778928 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 ___	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-JJB-11
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 season			

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 checked="" type="checkbox"/> Water-Stained Leaves (B9)	<input checked="" type="checkbox"/> Surface Soil Cracks (B6)
<input 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 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 ___ No <input checked="" type="checkbox"/>	Depth (inches):
Water Table Present?	Yes ___ No <input checked="" type="checkbox"/>	Depth (inches):
Saturation Present?	Yes <input checked="" type="checkbox"/> No ___	Depth (inches): 1
(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-JJB-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>Eleocharis obtusa</i>	70	Yes	OBL	
2.	<i>Alisma triviale</i>	20	No	OBL	
3.	<i>Juncus tenuis</i>	12	No	FAC	
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
			102	= 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

SOIL

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

[illegible]

Hydrology Photos



Vegetation Photos



Soil Photos



Photo of Sample Plot







WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Trelina City/County: Geneva, Seneca Sampling Date: 2019-July-11
 Applicant/Owner: NextEra State: NY Sampling Point: W-JJB-11; UPL-1
 Investigator(s): Nick DeJohn, Jake Brillo 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: 42.8819070664 Long: -76.9550155197 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 ____ 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-JJB-11; 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>	5	Yes	NI		
2. _____	_____	_____	_____		
3. _____	_____	_____	_____		
4. _____	_____	_____	_____		
5. _____	_____	_____	_____		
6. _____	_____	_____	_____		
7. _____	_____	_____	_____		
8. _____	_____	_____	_____		
9. _____	_____	_____	_____		
10. _____	_____	_____	_____		
11. _____	_____	_____	_____		
12. _____	_____	_____	_____		
	5	= 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 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 ☒

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

SOIL

Sampling Point: W-JJB-11; 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-July-11
 Applicant/Owner: NextEra State: NY Sampling Point: W-JJB-12; PEM-1
 Investigator(s): Nick DeJohn, Jake Brillo Section, Township, Range:
 Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none): Concave Slope (%): 2-5
 Subregion (LRR or MLRA): LRR L Lat: 42.8859512089 Long: -76.9528185391 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-JJB-12
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 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 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): 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-JJB-12; 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. <i>Tilia americana</i>	15	Yes	FACU	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	77	x 1 =	77
7. _____	15	= Total Cover		FACW species	20	x 2 =	40
Sapling/Shrub Stratum (Plot size: 15 ft)				FAC species	0	x 3 =	0
1. <i>Cephalanthus occidentalis</i>	15	Yes	OBL	FACU species	15	x 4 =	60
2. _____	_____	_____	_____	UPL species	0	x 5 =	0
3. _____	_____	_____	_____	Column Totals	112	(A)	177 (B)
4. _____	_____	_____	_____	Prevalence Index = B/A = 1.6			
5. _____	_____	_____	_____	Hydrophytic Vegetation Indicators:			
6. _____	_____	_____	_____	1- Rapid Test for Hydrophytic Vegetation			
7. _____	15	= Total Cover		✓ 2- Dominance Test is >50%			
Herb Stratum (Plot size: 5 ft)				✓ 3- Prevalence Index is ≤ 3.0 ¹			
1. <i>Decodon verticillatus</i>	35	Yes	OBL	4- Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)			
2. <i>Impatiens capensis</i>	20	Yes	FACW	Problematic Hydrophytic Vegetation ¹ (Explain)			
3. <i>Sparganium americanum</i>	15	No	OBL	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic			
4. <i>Lythrum salicaria</i>	12	No	OBL	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. _____	82	= 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-JJB-12; PEM-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-July-11
 Applicant/Owner: NextEra State: NY Sampling Point: W-JJB-12; PSS-1
 Investigator(s): Nick DeJohn, Jake Brillo Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none): Concave Slope (%): 0-1
 Subregion (LRR or MLRA): LRR L Lat: 42.8858999536 Long: -76.9511797932 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-JJB-12</u>
Remarks: (Explain alternative procedures here or in a separate report)		
<p>TRC coverype is PSS. 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 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 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 ____ 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-JJB-12; PSS-1

Tree Stratum (Plot size: <u>30 ft</u>)				Dominance Test worksheet:	
	Absolute % Cover	Dominant Species?	Indicator Status		
1. _____	_____	_____	_____	Number of Dominant Species That Are OBL, FACW, or FAC:	<u>4</u> (A)
2. _____	_____	_____	_____	Total Number of Dominant Species Across All Strata:	<u>4</u> (B)
3. _____	_____	_____	_____	Percent of Dominant Species That Are OBL, FACW, or FAC:	<u>100</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>110</u> x 2 = <u>220</u>
	<u>0</u>	= Total Cover		FAC species	<u>54</u> x 3 = <u>162</u>
Sapling/Shrub Stratum (Plot size: <u>15 ft</u>)				FACU species	<u>0</u> x 4 = <u>0</u>
1. <i>Cornus amomum</i>	<u>40</u>	Yes	FACW	UPL species	<u>0</u> x 5 = <u>0</u>
2. <i>Viburnum dentatum</i>	<u>25</u>	Yes	FAC	Column Totals	<u>164</u> (A) <u>382</u> (B)
3. <i>Rhamnus cathartica</i>	<u>12</u>	No	FAC	Prevalence Index = B/A = <u>2.3</u>	
4. <i>Acer rubrum</i>	<u>7</u>	No	FAC	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	
	<u>84</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>Cornus amomum</i>	<u>30</u>	Yes	FACW	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic	
2. <i>Onoclea sensibilis</i>	<u>25</u>	Yes	FACW	Definitions of Vegetation Strata:	
3. <i>Carex scoparia</i>	<u>15</u>	No	FACW	Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.	
4. <i>Acer rubrum</i>	<u>10</u>	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. _____	_____	_____	_____		
	<u>80</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-JJB-12; PSS-1

[illegible]

Hydrology Photos



Vegetation Photos



Soil Photos



WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Trelina City/County: Geneva, Sampling Date: 2019-July-11
 Applicant/Owner: NextEra State: _____ Sampling Point: W-JJB-12; PUB-1
 Investigator(s): Jake Brillo, Nick DeJohn Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): Marsh Local relief (concave, convex, none): Concave Slope (%): 1-10
 Subregion (LRR or MLRA): LRR L Lat: 42.883185 Long: -76.954859 Datum: WGS84
 Soil Map Unit Name: Fresh water marsh 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-JJB-12</u>
Remarks: (Explain alternative procedures here or in a separate report)		
<p>TRC coertype is PUB.</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 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 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 <input checked="" type="checkbox"/> No _____	Depth (inches):	<u>36</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-JJB-12; PUB-1

Northcentral and Northeast Region -- Version 2.0 Adapted by TRC

SOIL

Sampling Point: W-JJB-12; PUB-1

[illegible]

Photo of Sample Plot



WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Trelina City/County: Geneva, Seneca Sampling Date: 2019-July-11
 Applicant/Owner: NextEra State: NY Sampling Point: W-JJB-12; UPL-1
 Investigator(s): Nick DeJohn, Jake Brillo 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: 42.8858914879 Long: -76.9529692457 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)		
<p>TRC coverype is UPL. 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 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-JJB-12; 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>)			Absolute % Cover	Dominant Species?	Indicator Status
1.	<i>Tilia americana</i>		10	Yes	FACU
2.	<i>Rhamnus cathartica</i>		10	Yes	FAC
3.					
4.					
5.					
6.					
7.					
			20	= Total Cover	
Herb Stratum (Plot size: <u>5 ft</u>)			Absolute % Cover	Dominant Species?	Indicator Status
1.	<i>Juncus tenuis</i>		60	Yes	FAC
2.	<i>Ambrosia artemisiifolia</i>		25	Yes	FACU
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
			85	= 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: 2 (A)

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

Percent of Dominant Species That Are OBL, FACW, or FAC: 50 (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>70</u>	x 3 =	<u>210</u>
FACU species	<u>35</u>	x 4 =	<u>140</u>
UPL species	<u>0</u>	x 5 =	<u>0</u>
Column Totals	<u>105</u>	(A)	<u>350</u> (B)
Prevalence Index = B/A = <u>3.3</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-JJB-12; 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-July-11
 Applicant/Owner: NextEra State: NY Sampling Point: W-JJB-12; UPL-2
 Investigator(s): Nick DeJohn, Jake Brillo 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: 42.8858973133 Long: -76.9511460141 Datum: WGS84
 Soil Map Unit Name: Collamer 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: <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-JJB-12; UPL-2

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>1</u> (A)		
2.						Total Number of Dominant Species Across All Strata: <u>3</u> (B)		
3.						Percent of Dominant Species That Are OBL, FACW, or FAC: <u>33.3</u> (A/B)		
4.						Prevalence Index worksheet:		
5.						Total % Cover of:		
6.						Multiply By:		
7.						OBL species <u>0</u> x 1 = <u>0</u>		
						FACW species <u>0</u> x 2 = <u>0</u>		
						FAC species <u>20</u> x 3 = <u>60</u>		
						FACU species <u>75</u> x 4 = <u>300</u>		
						UPL species <u>0</u> x 5 = <u>0</u>		
						Column Totals <u>95</u> (A) <u>360</u> (B)		
						Prevalence Index = B/A = <u>3.8</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>1</u> Problematic Hydrophytic Vegetation 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>)								
1.	<i>Trifolium repens</i>	40	Yes	FACU				
2.	<i>Ambrosia artemisiifolia</i>	25	Yes	FACU				
3.	<i>Juncus tenuis</i>	20	Yes	FAC				
4.	<i>Poa pratensis</i>	10	No	FACU				
5.								
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		
Remarks: (Include photo numbers here or on a separate sheet.)								

SOIL

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

[illegible]

Vegetation Photos



Soil Photos



WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Trelina City/County: Geneva, Seneca Sampling Date: 2019-July-11
 Applicant/Owner: NextEra State: NY Sampling Point: W-JJB-12; UPL-3
 Investigator(s): Nick DeJohn, Jake Brillo 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: 42.8830221109 Long: -76.9546680898 Datum: WGS84
 Soil Map Unit Name: Collamer 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: <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-JJB-12; UPL-3

Northcentral and Northeast Region -- Version 2.0 Adapted by TRC

SOIL

Sampling Point: W-JJB-12; UPL-3

[illegible]

Vegetation Photos



Soil Photos



WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Trelina City/County: Geneva, Seneca Sampling Date: 2019-July-11
 Applicant/Owner: NextEra State: NY Sampling Point: W-JJB-12; UPL-4
 Investigator(s): Nick DeJohn, Jake Brillo 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: 42.8833443113 Long: -76.953421617 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 ___ 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): _____
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-JJB-12; UPL-4

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>	5	Yes	NI	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
11. _____	_____	_____	_____	
12. _____	_____	_____	_____	
	5	= 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 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 ☒

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

SOIL

Sampling Point: W-JJB-12; UPL-4

[illegible]

Vegetation Photos



Soil Photos



WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Trelina City/County: Geneva, Seneca Sampling Date: 2019-July-11
 Applicant/Owner: NextEra State: NY Sampling Point: W-JJB-12; PFO-1
 Investigator(s): Nick DeJohn, Jake Brillo Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none): Concave Slope (%): 0-1
 Subregion (LRR or MLRA): LRR L Lat: 42.885598708 Long: -76.9512890932 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-JJB-12</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 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 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 ____ 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-JJB-12; PFO-1

Tree Stratum (Plot size: <u>30 ft</u>)	Absolute % Cover	Dominant Species?	Indicator Status
1. <i>Fraxinus pennsylvanica</i>	40	Yes	FACW
2. <i>Acer rubrum</i>	20	Yes	FAC
3. _____	_____	_____	_____
4. _____	_____	_____	_____
5. _____	_____	_____	_____
6. _____	_____	_____	_____
7. _____	_____	_____	_____
	60	= Total Cover	
Sapling/Shrub Stratum (Plot size: <u>15 ft</u>)			
1. <i>Rhamnus cathartica</i>	30	Yes	FAC
2. <i>Fraxinus pennsylvanica</i>	15	Yes	FACW
3. _____	_____	_____	_____
4. _____	_____	_____	_____
5. _____	_____	_____	_____
6. _____	_____	_____	_____
7. _____	_____	_____	_____
	45	= Total Cover	
Herb Stratum (Plot size: <u>5 ft</u>)			
1. <i>Rhamnus cathartica</i>	25	Yes	FAC
2. <i>Toxicodendron radicans</i>	15	Yes	FAC
3. <i>Rosa multiflora</i>	8	No	FACU
4. <i>Acer rubrum</i>	5	No	FAC
5. _____	_____	_____	_____
6. _____	_____	_____	_____
7. _____	_____	_____	_____
8. _____	_____	_____	_____
9. _____	_____	_____	_____
10. _____	_____	_____	_____
11. _____	_____	_____	_____
12. _____	_____	_____	_____
	53	= 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: 6 (A)

Total Number of Dominant Species Across All Strata: 6 (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>0</u>	x 1 = <u>0</u>
FACW species <u>55</u>	x 2 = <u>110</u>
FAC species <u>95</u>	x 3 = <u>285</u>
FACU species <u>8</u>	x 4 = <u>32</u>
UPL species <u>0</u>	x 5 = <u>0</u>
Column Totals <u>158</u>	(A) <u>427</u> (B)
Prevalence Index = B/A = <u>2.7</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-JJB-12; PFO-1

[illegible]

Vegetation Photos



Soil Photos



WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Trelina City/County: Geneva, Seneca Sampling Date: 2019-July-11
 Applicant/Owner: NextEra State: NY Sampling Point: W-JJB-13; PEM-1
 Investigator(s): Jake Brillo, Nick DeJohn 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: 42.8834465705 Long: -76.9515812863 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 ____	If yes, optional Wetland Site ID:	W-JJB-13
Wetland Hydrology Present?	Yes <u>✓</u> No ____		
Remarks: (Explain alternative procedures here or in a separate report)			
<p>TRC coverype is PEM. Circumstances are not normal due to agricultural activities, Wetter than average season</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 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 checked="" 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 ____ No <u>✓</u>	Wetland Hydrology Present? Yes <u>✓</u> No ____
Water Table Present?	Yes ____ No <u>✓</u>	
Saturation Present?	Yes <u>✓</u> No ____	
(includes capillary fringe)		
Depth (inches): _____		
Depth (inches): _____		
Depth (inches): <u>1</u>		
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:		
Remarks:		

VEGETATION -- Use scientific names of plants.

Sampling Point: W-JJB-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>Alisma triviale</i>	70	Yes	OBL					
2. <i>Eleocharis obtusa</i>	35	Yes	OBL					
3. <i>Ranunculus sceleratus</i>	10	No	OBL					
4. _____	_____	_____	_____					
5. _____	_____	_____	_____					
6. _____	_____	_____	_____					
7. _____	_____	_____	_____					
8. _____	_____	_____	_____					
9. _____	_____	_____	_____					
10. _____	_____	_____	_____					
11. _____	_____	_____	_____					
12. _____	_____	_____	_____					
	115	= 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	115	x 1 =	115
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	115	(A)	115 (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-JJB-13; PEM-1

[illegible]

Hydrology Photos



Vegetation Photos



Soil Photos



Photo of Sample Plot







WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Trelina City/County: Geneva, Seneca Sampling Date: 2019-July-11
 Applicant/Owner: NextEra State: NY Sampling Point: W-JJB-13; UPL-1
 Investigator(s): Jake Brillo, Nick DeJohn 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: 42.8834338719 Long: -76.9516956155 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 <u>✓</u> No ____	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. Area is upland, not all three wetland parameters are present. Circumstances are not normal due to agricultural activities, Wetter than average season</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:		Wetland Hydrology Present? Yes ____ No <u>✓</u>
Surface Water Present? Yes ____ No <u>✓</u>	Depth (inches): _____	
Water Table Present? Yes ____ No <u>✓</u>	Depth (inches): _____	
Saturation Present? Yes ____ No <u>✓</u> (includes capillary fringe)	Depth (inches): _____	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:		
Remarks:		

VEGETATION -- Use scientific names of plants.

Sampling Point: W-JJB-13; 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>	30	Yes	NI	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
11. _____	_____	_____	_____	
12. _____	_____	_____	_____	
	30	= 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	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 ☒

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

Active agricultural field

SOIL

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

[illegible]

Vegetation Photos



Soil Photos



Photo of Sample Plot





WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Trelina City/County: Geneva, Seneca Sampling Date: 2019-July-11
 Applicant/Owner: NextEra State: NY Sampling Point: W-JJB-14; PEM-1
 Investigator(s): Jake Brillo, Nick DeJohn 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: 42.8828223283 Long: -76.9527593628 Datum: WGS84
 Soil Map Unit Name: Collamer 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 ___	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-JJB-14
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 season			

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 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 checked="" 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 ___ No <input checked="" type="checkbox"/>	Depth (inches):
Water Table Present?	Yes ___ No <input checked="" type="checkbox"/>	Depth (inches):
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-JJB-14; 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 obtusa</i>	80	Yes	OBL		
2. <i>Alisma triviale</i>	20	Yes	OBL		
3. _____	_____	_____	_____		
4. _____	_____	_____	_____		
5. _____	_____	_____	_____		
6. _____	_____	_____	_____		
7. _____	_____	_____	_____		
8. _____	_____	_____	_____		
9. _____	_____	_____	_____		
10. _____	_____	_____	_____		
11. _____	_____	_____	_____		
12. _____	_____	_____	_____		
	100	= 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 100	x 1 = 100
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 100	(A) 100 (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-JJB-14; PEM-1

[illegible]

Vegetation Photos



Soil Photos



Photo of Sample Plot





WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Trelina City/County: Geneva, Seneca Sampling Date: 2019-July-11
 Applicant/Owner: NextEra State: NY Sampling Point: W-JJB-14; UPL-1
 Investigator(s): Nick DeJohn, Jake Brillo 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: 42.8805420946 Long: -76.9504982352 Datum: WGS84
 Soil Map Unit Name: Collamer 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: <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-JJB-14; 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>	5	Yes	NI
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
		5	= Total Cover	

Woody Vine Stratum (Plot size: 30 ft)		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: 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 ☒

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

SOIL

Sampling Point: W-JJB-14; 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-July-11
 Applicant/Owner: NextEra State: NY Sampling Point: W-JJB-15; PEM-1
 Investigator(s): Jake Brillo, Nick DeJohn Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): Agricultural Field Local relief (concave, convex, none): Concave Slope (%): 1-10
 Subregion (LRR or MLRA): LRR L Lat: 42.9008243094 Long: -76.9322555513 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 ____
		If yes, optional Wetland Site ID:	W-JJB-15
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 season			

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 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 ____ 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 <u>✓</u> No ____		
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: 					
Remarks: 					

Sampling Point: W-JJB-15; PEM-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>Eleocharis obtusa</i>	60	Yes	OBL
2.	<i>Ranunculus sceleratus</i>	20	Yes	OBL
3.	<i>Cyperus esculentus</i>	10	No	FACW
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
		<u>90</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-JJB-15; PEM-1

[illegible]

Vegetation Photos



Soil Photos



Photo of Sample Plot





WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Trelina City/County: Waterloo, Seneca Sampling Date: 2019-July-11
 Applicant/Owner: NextEra State: NY Sampling Point: W-JJB-15; UPL-1
 Investigator(s): Jake Brillo, Nick DeJohn Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): Agricultural Field Local relief (concave, convex, none): Convex Slope (%): 1-10
 Subregion (LRR or MLRA): LRR L Lat: 42.9010502855 Long: -76.93327236 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 <u>✓</u> No ____	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. Area is upland, not all three wetland parameters are present. Circumstances are not normal due to agricultural activities, Wetter than average season		

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-JJB-15; 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>	50	Yes	FACU					
2. <i>Ambrosia artemisiifolia</i>	28	Yes	FACU					
3. <i>Trifolium repens</i>	22	Yes	FACU					
4. _____	_____	_____	_____					
5. _____	_____	_____	_____					
6. _____	_____	_____	_____					
7. _____	_____	_____	_____					
8. _____	_____	_____	_____					
9. _____	_____	_____	_____					
10. _____	_____	_____	_____					
11. _____	_____	_____	_____					
12. _____	_____	_____	_____					
	100	= 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: 3 (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	100	x 4 =	400
UPL species	0	x 5 =	0
Column Totals	100	(A)	400 (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.)

Fallow field

SOIL

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

[illegible]

Vegetation Photos



Soil Photos



Photo of Sample Plot





Photo of Sample Plot
Sketch



WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Trelina City/County: Waterloo, Seneca Sampling Date: 2019-July-11
 Applicant/Owner: NextEra State: NY Sampling Point: W-JJB-16; PEM-1
 Investigator(s): Jake Brillo, Nick DeJohn 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: 42.8994808998 Long: -76.9327629079 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-JJB-16
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 season			

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 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 ___ No <input checked="" type="checkbox"/>	Depth (inches):
Water Table Present?	Yes ___ No <input checked="" type="checkbox"/>	Depth (inches):
Saturation Present?	Yes <input checked="" type="checkbox"/> No ___	Depth (inches):
(includes capillary fringe)		0
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-JJB-16; PEM-1

Tree Stratum (Plot size: <u>30 ft</u>)				Dominance Test worksheet:	
	Absolute % Cover	Dominant Species?	Indicator Status		
1. _____	_____	_____	_____	Number of Dominant Species That Are OBL, FACW, or FAC:	3 (A)
2. _____	_____	_____	_____	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	60 x 1 = 60
7. _____	_____	_____	_____	FACW species	15 x 2 = 30
	0 = Total Cover			FAC species	0 x 3 = 0
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	75 (A) 90 (B)
3. _____	_____	_____	_____	Prevalence Index = B/A = 1.2	
4. _____	_____	_____	_____	Hydrophytic Vegetation Indicators:	
5. _____	_____	_____	_____	<input checked="" type="checkbox"/> 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			<input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)	
Herb Stratum (Plot size: <u>5 ft</u>)				<input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain)	
1. <i>Eleocharis obtusa</i>	45	Yes	OBL	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic	
2. <i>Ranunculus sceleratus</i>	15	Yes	OBL	Definitions of Vegetation Strata:	
3. <i>Phalaris arundinacea</i>	15	Yes	FACW	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 <input type="checkbox"/>	
8. _____	_____	_____	_____		
9. _____	_____	_____	_____		
10. _____	_____	_____	_____		
11. _____	_____	_____	_____		
12. _____	_____	_____	_____		
	75 = 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-JJB-16; PEM-1

[illegible]

Photo of Sample Plot





WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Trelina City/County: Waterloo, Seneca Sampling Date: 2019-July-11
 Applicant/Owner: NextEra State: NY Sampling Point: W-JJB-16; PFO-1
 Investigator(s): Jake Brillo, Nick DeJohn Section, Township, Range:
 Landform (hillslope, terrace, etc.): Swale Local relief (concave, convex, none): Concave Slope (%): 1-10
 Subregion (LRR or MLRA): LRR L Lat: 42.8987582121 Long: -76.9336323627 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-JJB-16
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 season			

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 checked="" 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 checked="" type="checkbox"/> Moss Trim Lines (B16)
<input checked="" 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 checked="" 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 <input checked="" type="checkbox"/> No ___	Depth (inches): 4
(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-JJB-16; PFO-1

Tree Stratum (Plot size: <u>30 ft</u>)				Dominance Test worksheet:			
	Absolute % Cover	Dominant Species?	Indicator Status				
1. <i>Acer rubrum</i>	32	Yes	FAC	Number of Dominant Species That Are OBL, FACW, or FAC:			5 (A)
2. <i>Fraxinus pennsylvanica</i>	15	Yes	FACW	Total Number of Dominant Species Across All Strata:			6 (B)
3. _____	_____	_____	_____	Percent of Dominant Species That Are OBL, FACW, or FAC:			83.3 (A/B)
4. _____	_____	_____	_____				
5. _____	_____	_____	_____				
6. _____	_____	_____	_____				
7. _____	_____	_____	_____				
	47	= Total Cover		Prevalence Index worksheet:			
Sapling/Shrub Stratum (Plot size: <u>15 ft</u>)				<div> <div>Total % Cover of:</div> <div>Multiply By:</div> </div>			
1. <i>Fraxinus pennsylvanica</i>	15	Yes	FACW	OBL species	0	x 1 =	0
2. _____	_____	_____	_____	FACW species	38	x 2 =	76
3. _____	_____	_____	_____	FAC species	44	x 3 =	132
4. _____	_____	_____	_____	FACU species	7	x 4 =	28
5. _____	_____	_____	_____	UPL species	0	x 5 =	0
6. _____	_____	_____	_____	Column Totals	89	(A)	236 (B)
7. _____	_____	_____	_____	Prevalence Index = B/A = <u>2.7</u>			
	15	= Total Cover		Hydrophytic Vegetation Indicators:			
Herb Stratum (Plot size: <u>5 ft</u>)				_____ 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>Acer rubrum</i>	12	Yes	FAC	Definitions of Vegetation Strata:			
2. <i>Carex projecta</i>	8	Yes	FACW	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.			
3. <i>Parthenocissus quinquefolia</i>	7	Yes	FACU	Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No _____			
4. _____	_____	_____	_____				
5. _____	_____	_____	_____				
6. _____	_____	_____	_____				
7. _____	_____	_____	_____				
8. _____	_____	_____	_____				
9. _____	_____	_____	_____				
10. _____	_____	_____	_____				
11. _____	_____	_____	_____				
12. _____	_____	_____	_____				
	27	= 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-JJB-16; PFO-1

[illegible]

Hydrology Photos



Vegetation Photos



Photo of Sample Plot





WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Trelina City/County: Waterloo, Seneca Sampling Date: 2019-July-11
 Applicant/Owner: NextEra State: NY Sampling Point: W-JJB-16; UPL-1
 Investigator(s): Jake Brillo, Nick DeJohn Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): Agricultural Field Local relief (concave, convex, none): Convex Slope (%): 1-10
 Subregion (LRR or MLRA): LRR L Lat: 42.8995101527 Long: -76.9327674341 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, Wetter than average season		

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-JJB-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>Poa pratensis</i>	35	Yes	FACU	
2. <i>Juncus tenuis</i>	30	Yes	FAC	
3. <i>Trifolium repens</i>	20	Yes	FACU	
4. <i>Ambrosia artemisiifolia</i>	15	No	FACU	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
11. _____	_____	_____	_____	
12. _____	_____	_____	_____	
	100	= 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: 3 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 33.3 (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply By:
OBL species	0 x 1 = 0
FACW species	0 x 2 = 0
FAC species	30 x 3 = 90
FACU species	70 x 4 = 280
UPL species	0 x 5 = 0
Column Totals	100 (A) 370 (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.)

Fallow field

SOIL

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

[illegible]

Photo of Sample Plot





WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Trelina City/County: Waterloo, Seneca Sampling Date: 2019-July-11
 Applicant/Owner: NextEra State: NY Sampling Point: W-JJB-16; UPL-2
 Investigator(s): Nick DeJohn, Jake Brillo 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: 42.8993398743 Long: -76.9335668162 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. 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-JJB-16; UPL-2

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>	35	Yes	FAC		
2. <i>Poa pratensis</i>	15	Yes	FACU		
3. <i>Ambrosia artemisiifolia</i>	15	Yes	FACU		
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: 1 (A)

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

Percent of Dominant Species That Are OBL, FACW, or FAC: 33.3 (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply By:
OBL species 0	x 1 = 0
FACW species 0	x 2 = 0
FAC species 35	x 3 = 105
FACU species 30	x 4 = 120
UPL species 0	x 5 = 0
Column Totals 65	(A) 225 (B)

Prevalence Index = B/A = 3.5

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-JJB-16; UPL-2

[illegible]

Vegetation Photos



Soil Photos



WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Trelina City/County: Geneva, Seneca Sampling Date: 2019-July-23
 Applicant/Owner: NextEra State: NY Sampling Point: W-JJB-17; PEM-1
 Investigator(s): Jake Brillo, Nick DeJohn Section, Township, Range:
 Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none): Convex Slope (%): 0-1
 Subregion (LRR or MLRA): LRR L Lat: 42.8878228879 Long: -76.9548235741 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-JJB-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 season			

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 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 checked="" 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 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 ___ No <input checked="" type="checkbox"/>	Depth (inches):
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-JJB-17; 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>)		Absolute % Cover	Dominant Species?	Indicator Status
1.				
2.				
3.				
4.				
5.				
6.				
7.				
		0	= Total Cover	

Herb Stratum (Plot size: <u>5 ft</u>)		Absolute % Cover	Dominant Species?	Indicator Status
1.	<i>Juncus effusus</i>	60	Yes	OBL
2.	<i>Eleocharis obtusa</i>	45	Yes	OBL
3.	<i>Carex stipata</i>	25	No	OBL
4.	<i>Alisma triviale</i>	15	No	OBL
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
		145	= 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: 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	<u>145</u>	x 1 =	<u>145</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>145</u>	(A)	<u>145</u> (B)
Prevalence Index = B/A = <u>1</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-JJB-17; 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-July-09
 Applicant/Owner: NextEra State: NY Sampling Point: W-JJB-17; PFO-1
 Investigator(s): Jake Brillo, Nick DeJohn Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): Swamp Local relief (concave, convex, none): Concave Slope (%): 0-1
 Subregion (LRR or MLRA): LRR L Lat: 42.8891251842 Long: -76.9594073017 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-JJB-17</u>
Remarks: (Explain alternative procedures here or in a separate report)		
<p>TRC coverype is PFO. Wetter than average season</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 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 checked="" type="checkbox"/> Moss Trim Lines (B16)
<input type="checkbox"/> Water Marks (B1)	<input checked="" 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 checked="" 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 ____ (includes capillary fringe)	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-JJB-17; PFO-1

Tree Stratum (Plot size: 30 ft)				Dominance Test worksheet:			
	Absolute % Cover	Dominant Species?	Indicator Status				
1. <i>Acer rubrum</i>	38	Yes	FAC	Number of Dominant Species That Are OBL, FACW, or FAC:			6 (A)
2. <i>Fraxinus pennsylvanica</i>	12	Yes	FACW	Total Number of Dominant Species Across All Strata:			6 (B)
3. _____	_____	_____	_____	Percent of Dominant Species That Are OBL, FACW, or FAC:			100 (A/B)
4. _____	_____	_____	_____				
5. _____	_____	_____	_____				
6. _____	_____	_____	_____				
7. _____	_____	_____	_____				
	50	= Total Cover					
Sapling/Shrub Stratum (Plot size: 15 ft)				Prevalence Index worksheet:			
	Absolute % Cover	Dominant Species?	Indicator Status	Total % Cover of:		Multiply By:	
1. <i>Acer rubrum</i>	15	Yes	FAC	OBL species	15	x 1 =	15
2. <i>Fraxinus pennsylvanica</i>	8	Yes	FACW	FACW species	48	x 2 =	96
3. _____	_____	_____	_____	FAC species	53	x 3 =	159
4. _____	_____	_____	_____	FACU species	0	x 4 =	0
5. _____	_____	_____	_____	UPL species	0	x 5 =	0
6. _____	_____	_____	_____	Column Totals	116	(A)	270 (B)
7. _____	_____	_____	_____	Prevalence Index = B/A = 2.3			
	23	= Total Cover					
Herb Stratum (Plot size: 5 ft)				Hydrophytic Vegetation Indicators:			
	Absolute % Cover	Dominant Species?	Indicator Status	_____ 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. <i>Carex projecta</i>	20	Yes	FACW	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic			
2. <i>Carex crinita</i>	10	Yes	OBL				
3. <i>Dulichium arundinaceum</i>	5	No	OBL				
4. <i>Carex grayi</i>	4	No	FACW				
5. <i>Impatiens capensis</i>	4	No	FACW				
6. _____	_____	_____	_____				
7. _____	_____	_____	_____				
8. _____	_____	_____	_____				
9. _____	_____	_____	_____				
10. _____	_____	_____	_____				
11. _____	_____	_____	_____				
12. _____	_____	_____	_____				
	43	= Total Cover					
Woody Vine Stratum (Plot size: 30 ft)				Definitions of Vegetation Strata:			
	Absolute % Cover	Dominant Species?	Indicator Status	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. _____	_____	_____	_____	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-JJB-17; PFO-1

[illegible]

Hydrology Photos



Vegetation Photos



Soil Photos



Photo of Sample Plot







WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Trelina City/County: Geneva, Seneca Sampling Date: 2019-July-23
 Applicant/Owner: NextEra State: NY Sampling Point: W-JJB-17; PFO-2
 Investigator(s): Jake Brillo, Nick DeJohn Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): Swamp Local relief (concave, convex, none): Concave Slope (%): 1-10
 Subregion (LRR or MLRA): LRR L Lat: 42.888131761 Long: -76.9555356168 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-JJB-17</u>
Remarks: (Explain alternative procedures here or in a separate report)		
<p>TRC coverype is PFO. Wetter than average season</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 checked="" 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 checked="" 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>4</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-JJB-17; PFO-2

Tree Stratum (Plot size: <u>30 ft</u>)				Dominance Test worksheet:	
	Absolute % Cover	Dominant Species?	Indicator Status		
1. <i>Acer saccharinum</i>	32	Yes	FACW	Number of Dominant Species That Are OBL, FACW, or FAC:	7 (A)
2. <i>Acer rubrum</i>	10	Yes	FAC	Total Number of Dominant Species Across All Strata:	7 (B)
3. _____	_____	_____	_____	Percent of Dominant Species That Are OBL, FACW, or FAC:	100 (A/B)
4. _____	_____	_____	_____		
5. _____	_____	_____	_____		
6. _____	_____	_____	_____		
7. _____	_____	_____	_____		
	42	= 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>	18	Yes	FAC	OBL species	30 x 1 = 30
2. <i>Acer saccharinum</i>	12	Yes	FACW	FACW species	89 x 2 = 178
3. <i>Fraxinus pennsylvanica</i>	10	Yes	FACW	FAC species	28 x 3 = 84
4. _____	_____	_____	_____	FACU species	10 x 4 = 40
5. _____	_____	_____	_____	UPL species	0 x 5 = 0
6. _____	_____	_____	_____	Column Totals	157 (A) 332 (B)
7. _____	_____	_____	_____	Prevalence Index = B/A = 2.1	
	40	= Total Cover			
Herb Stratum (Plot size: <u>5 ft</u>)				Hydrophytic Vegetation Indicators:	
	Absolute % Cover	Dominant Species?	Indicator Status		
1. <i>Onoclea sensibilis</i>	35	Yes	FACW	1- Rapid Test for Hydrophytic Vegetation	
2. <i>Carex crinita</i>	18	Yes	OBL	<input checked="" type="checkbox"/> 2 - Dominance Test is >50%	
3. <i>Boehmeria cylindrica</i>	12	No	OBL	<input checked="" type="checkbox"/> 3 - Prevalence Index is ≤ 3.0 ¹	
4. <i>Parthenocissus quinquefolia</i>	10	No	FACU	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. _____	_____	_____	_____		
	75	= 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-JJB-17; PFO-2

[illegible]

Vegetation Photos



Soil Photos



Photo of Sample Plot





WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Trelina City/County: Geneva, Seneca Sampling Date: 2019-July-23
 Applicant/Owner: NextEra State: NY Sampling Point: W-JJB-17; PSS-1
 Investigator(s): Jake Brillo, Nick DeJohn Section, Township, Range:
 Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none): Flat Slope (%): 0-1
 Subregion (LRR or MLRA): LRR L Lat: 42.8883513669 Long: -76.9557426498 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-JJB-17
Wetland Hydrology Present?	Yes <input checked="" type="checkbox"/> No ___		
Remarks: (Explain alternative procedures here or in a separate report)			
TRC coverype is PSS. Wetter than average season, maintained power line ROW			

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 checked="" 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 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 ___ No <input checked="" type="checkbox"/>	Depth (inches):
Saturation Present?	Yes <input checked="" type="checkbox"/> No ___	Depth (inches): 4
(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-JJB-17; PSS-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>5</u> (A)			
2. _____	_____	_____	_____	Total Number of Dominant Species Across All Strata: <u>5</u> (B)			
3. _____	_____	_____	_____	Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</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>102</u>	x 2 =	<u>204</u>
	<u>0</u> = Total Cover			FAC species	<u>54</u>	x 3 =	<u>162</u>
Sapling/Shrub Stratum (Plot size: <u>15 ft</u>)				FACU species	<u>0</u>	x 4 =	<u>0</u>
1. <i>Sambucus nigra</i>	<u>35</u>	<u>Yes</u>	<u>FACW</u>	UPL species	<u>0</u>	x 5 =	<u>0</u>
2. <i>Ulmus americana</i>	<u>10</u>	<u>No</u>	<u>FACW</u>	Column Totals	<u>156</u>	(A)	<u>366</u> (B)
3. <i>Fraxinus pennsylvanica</i>	<u>12</u>	Percent cover cannot be greater than a previous species	<u>FACW</u>	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			
	<u>57</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 gigantea</i>	<u>25</u>	<u>Yes</u>	<u>FACW</u>	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic			
2. <i>Fraxinus pennsylvanica</i>	<u>20</u>	<u>Yes</u>	<u>FACW</u>	Definitions of Vegetation Strata:			
3. <i>Solidago rugosa</i>	<u>15</u>	<u>Yes</u>	<u>FAC</u>	Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.			
4. <i>Viburnum dentatum</i>	<u>14</u>	<u>No</u>	<u>FAC</u>	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. _____	_____	_____	_____				
	<u>74</u> = Total Cover						
Woody Vine Stratum (Plot size: <u>30 ft</u>)							
1. <i>Vitis riparia</i>	<u>25</u>	<u>Yes</u>	<u>FAC</u>				
2. _____	_____	_____	_____				
3. _____	_____	_____	_____				
4. _____	_____	_____	_____				
	<u>25</u> = Total Cover						

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

SOIL

Sampling Point: W-JJB-17; PSS-1

[illegible]

Vegetation Photos



Soil Photos



Photo of Sample Plot



WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Trelina City/County: Geneva, Seneca Sampling Date: 2019-July-23
 Applicant/Owner: NextEra State: NY Sampling Point: W-JJB-17; PUB-1
 Investigator(s): Nick DeJohn, Jake Brillo Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none): Concave Slope (%): 0-1
 Subregion (LRR or MLRA): LRR L Lat: 42.8899752768 Long: -76.9536925201 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-JJB-17</u>
Remarks: (Explain alternative procedures here or in a separate report) TRC coverype is PUB. 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 checked="" 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 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 <input checked="" type="checkbox"/> No ____	Depth (inches):	<u>36</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-JJB-17; PUB-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>	15	Yes	OBL	
2. <i>Wolffia borealis</i>	15	Yes	OBL	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
11. _____	_____	_____	_____	
12. _____	_____	_____	_____	
	30	= 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	30 x 1 = 30
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	30 (A) 30 (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-JJB-17; PUB-1

[illegible]

Hydrology Photos



Vegetation Photos



WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Trelina City/County: Geneva, Seneca Sampling Date: 2019-July-09
 Applicant/Owner: NextEra State: NY Sampling Point: W-JJB-17; UPL-1
 Investigator(s): Jake Brillo, Nick DeJohn 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: 42.8891889286 Long: -76.9592629653 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 season		

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-JJB-17; 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>	65	Yes	FACU					
2. <i>Taraxacum officinale</i>	15	No	FACU					
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: 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 80	x 4 = 320
UPL species 0	x 5 = 0
Column Totals 80	(A) 320 (B)

Prevalence Index = B/A = 4

Hydrophytic Vegetation Indicators:

____ 1- Rapid Test for Hydrophytic Vegetation

____ 2 - Dominance Test is > 50%

____ 3 - Prevalence Index is ≤ 3.0¹

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

____ Problematic Hydrophytic Vegetation¹ (Explain)

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-JJB-17; UPL-1

[illegible]

Vegetation Photos



Photo of Sample Plot







WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Trelina City/County: Geneva, Seneca Sampling Date: 2019-July-23
 Applicant/Owner: NextEra State: NY Sampling Point: W-JJB-17; UPL-2
 Investigator(s): Jake Brillo, Nick DeJohn Section, Township, Range:
 Landform (hillslope, terrace, etc.): Agricultural Field Local relief (concave, convex, none): Flat Slope (%): 2-5
 Subregion (LRR or MLRA): LRR L Lat: 42.889975654 Long: -76.9535845612 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. Circumstances are not normal due to agricultural activities, Wetter than average season			

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-JJB-17; UPL-2

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>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>Poa pratensis</i>	<u>20</u>	Yes	FACU	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic				
2. <i>Ambrosia artemisiifolia</i>	<u>18</u>	Yes	FACU	Definitions of Vegetation Strata:				
3. <i>Anaphalis margaritacea</i>	<u>7</u>	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. _____	_____	_____	_____					
	<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-JJB-17; UPL-2

[illegible]

Vegetation Photos



Soil Photos



Photo of Sample Plot





WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Trelina City/County: Geneva, Seneca Sampling Date: 2019-July-23
 Applicant/Owner: NextEra State: NY Sampling Point: W-JJB-17; UPL-3
 Investigator(s): Nick DeJohn, Jake Brillo 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: 42.8879543161 Long: -76.9546426088 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)		
<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-JJB-17; UPL-3

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>)			Absolute % Cover	Dominant Species?	Indicator Status
1.					
2.					
3.					
4.					
5.					
6.					
7.					
			0	= Total Cover	
Herb Stratum (Plot size: <u>5 ft</u>)			Absolute % Cover	Dominant Species?	Indicator Status
1.	<i>Ambrosia artemisiifolia</i>		25	Yes	FACU
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
			25	= 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: 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>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 = 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-JJB-17; UPL-3

[illegible]

Vegetation Photos



Soil Photos



WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Trelina City/County: Geneva, Seneca Sampling Date: 2019-July-23
 Applicant/Owner: NextEra State: NY Sampling Point: W-JJB-17; UPL-4
 Investigator(s): Jake Brillo, Nick DeJohn 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: 42.8882221599 Long: -76.9554833975 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 <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 season			

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-JJB-17; UPL-4

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>)			Absolute % Cover	Dominant Species?	Indicator Status
1.					
2.					
3.					
4.					
5.					
6.					
7.					
			0	= Total Cover	
Herb Stratum (Plot size: <u>5 ft</u>)			Absolute % Cover	Dominant Species?	Indicator Status
1.	<i>Ambrosia artemisiifolia</i>		75	Yes	FACU
2.	<i>Poa pratensis</i>		10	No	FACU
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
			85	= 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: 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>85</u>	x 4 =	<u>340</u>
UPL species	<u>0</u>	x 5 =	<u>0</u>
Column Totals	<u>85</u>	(A)	<u>340</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-JJB-17; UPL-4

[illegible]

Vegetation Photos



Soil Photos



WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Trelina City/County: Geneva, Seneca Sampling Date: 2019-July-23
 Applicant/Owner: NextEra State: NY Sampling Point: W-JJB-17; UPL-5
 Investigator(s): Nick DeJohn, Jake Brillo 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: 42.8862592858 Long: -76.9564444666 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-JJB-17; UPL-5

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>	<u>30</u>	Yes	FACU
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.)

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)		
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 =		<u>4</u>		
Hydrophytic Vegetation Indicators:				
<u> </u> 1- Rapid Test for Hydrophytic Vegetation				
<u> </u> 2 - Dominance Test is > 50%				
<u> </u> 3 - Prevalence Index is ≤ 3.0 ¹				
<u> </u> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)				
<u> </u> 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.				
Hydrophytic Vegetation Present? Yes <u> </u> No <u>✓</u>				

SOIL

Sampling Point: W-JJB-17; UPL-5

[illegible]

Vegetation Photos



Soil Photos



WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Trelina City/County: Waterloo, Seneca Sampling Date: 2019-July-24
 Applicant/Owner: NextEra State: NY Sampling Point: W-JJB-18; PEM-1
 Investigator(s): Jake Brillo, Nick DeJohn Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none): Concave Slope (%): 1-10
 Subregion (LRR or MLRA): LRR L Lat: 42.8955635755 Long: -76.943924334 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-JJB-18</u>
Remarks: (Explain alternative procedures here or in a separate report) TRC coverype is PEM. Wetter than average season		

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 checked="" 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 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 ____ No <input checked="" type="checkbox"/> Depth (inches): _____ 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-JJB-18; 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: 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	40	x 1 =	40	
7. _____				FACW species	57	x 2 =	114	
	0	= Total Cover			FAC species	0	x 3 =	0
Sapling/Shrub Stratum (Plot size: 15 ft)				FACU species	0	x 4 =	0	
1. _____				UPL species	0	x 5 =	0	
2. _____				Column Totals	97	(A)	154 (B)	
3. _____				Prevalence Index = B/A = 1.6				
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: 5 ft)				Problematic Hydrophytic Vegetation ¹ (Explain)				
1. <i>Onoclea sensibilis</i>	45	Yes	FACW	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic				
2. <i>Juncus effusus</i>	20	Yes	OBL	Definitions of Vegetation Strata:				
3. <i>Carex vulpinoidea</i>	15	No	OBL	Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.				
4. <i>Carex scoparia</i>	12	No	FACW	Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.				
5. <i>Scirpus atrovirens</i>	5	No	OBL	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				
8. _____								
9. _____								
10. _____								
11. _____								
12. _____								
	97	= 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-JJB-18; PEM-1

[illegible]

Vegetation Photos



Soil Photos



Photo of Sample Plot





WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Trelina City/County: Waterloo, Seneca Sampling Date: 2019-July-24
 Applicant/Owner: NextEra State: NY Sampling Point: W-JJB-18; PFO-1
 Investigator(s): Nick DeJohn, Jake Brillo Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none): Concave Slope (%): 2-5
 Subregion (LRR or MLRA): LRR L Lat: 42.8942438029 Long: -76.9434507564 Datum: WGS84
 Soil Map Unit Name: Claverack loamy fine sand, 2 to 6 percent slopes NWI classification: PFO
 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-JJB-18</u>
Remarks: (Explain alternative procedures here or in a separate report)		
<p>TRC coverype is PFO. 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 checked="" 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 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 checked="" 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"/>	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:33%;">Depth (inches):</td> <td style="width:33%;"></td> <td style="width:33%;"></td> </tr> <tr> <td>Water Table Present?</td> <td>Yes <input checked="" type="checkbox"/> No ____</td> <td rowspan="2"> Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No ____ </td> </tr> <tr> <td>Saturation Present?</td> <td>Yes <input checked="" type="checkbox"/> No ____</td> </tr> <tr> <td colspan="3">(includes capillary fringe)</td> </tr> </table>	Depth (inches):			Water Table Present?	Yes <input checked="" type="checkbox"/> No ____	Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No ____	Saturation Present?	Yes <input checked="" type="checkbox"/> No ____	(includes capillary fringe)		
Depth (inches):													
Water Table Present?	Yes <input checked="" type="checkbox"/> No ____		Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No ____										
Saturation Present?	Yes <input checked="" type="checkbox"/> No ____												
(includes capillary fringe)													
Water Table Present?	Yes <input checked="" type="checkbox"/> No ____												
Saturation 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-JJB-18; 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:	<u>4</u> (A)
2. <i>Ulmus americana</i>	15	Yes	FACW	Total Number of Dominant Species Across All Strata:	<u>4</u> (B)
3. <i>Fraxinus pennsylvanica</i>	12	Yes	FACW	Percent of Dominant Species That Are OBL, FACW, or FAC:	<u>100</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>27</u> x 2 = <u>54</u>
	<u>52</u>	= Total Cover		FAC species	<u>35</u> x 3 = <u>105</u>
Sapling/Shrub Stratum (Plot size: <u>15 ft</u>)				FACU species	<u>0</u> x 4 = <u>0</u>
1. _____	_____	_____	_____	UPL species	<u>0</u> x 5 = <u>0</u>
2. _____	_____	_____	_____	Column Totals	<u>62</u> (A) <u>159</u> (B)
3. _____	_____	_____	_____	Prevalence Index = B/A = <u>2.6</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	
	<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>Rhamnus cathartica</i>	10	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. _____	_____	_____	_____		
	<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.)					

SOIL

Sampling Point: W-JJB-18; PFO-1

[illegible]

Vegetation Photos



Soil Photos



WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Trelina City/County: Waterloo, Seneca Sampling Date: 2019-July-24
 Applicant/Owner: NextEra State: NY Sampling Point: W-JJB-18; PUB-1
 Investigator(s): Jake Brillo, Nick DeJohn Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none): Concave Slope (%): 1-10
 Subregion (LRR or MLRA): LRR L Lat: 42.8941382328 Long: -76.9439877012 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-JJB-18</u>
Remarks: (Explain alternative procedures here or in a separate report) TRC coverype is PUB. Wetter than average season		

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 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 <input checked="" type="checkbox"/> No ____	Depth (inches):	<u>36</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-JJB-18; PUB-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: 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: <div style="display: flex; justify-content: space-between;"> <div> Total % Cover of: OBL species 5 FACW species 5 FAC species 0 FACU species 0 UPL species 0 Column Totals 10 </div> <div> Multiply By: x 1 = 5 x 2 = 10 x 3 = 0 x 4 = 0 x 5 = 0 (A) 15 (B) </div> </div> Prevalence Index = B/A = 1.5
2. _____				
3. _____				
4. _____				
5. _____				
6. _____				
7. _____				
	5	= 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>Sparganium americanum</i>	5	Yes	OBL	Hydrophytic Vegetation Indicators: <input checked="" 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 ____ 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.
2. _____				
3. _____				
4. _____				
5. _____				
6. _____				
7. _____				
8. _____				
9. _____				
10. _____				
11. _____				
12. _____				
	5	= Total Cover		
Woody Vine Stratum (Plot size: <u>30 ft</u>)				
1. _____				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-JJB-18; PUB-1

[illegible]

Hydrology Photos



Vegetation Photos



Soil Photos



Photo of Sample Plot







WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Trelina City/County: Waterloo, Seneca Sampling Date: 2019-July-24
 Applicant/Owner: NextEra State: NY Sampling Point: W-JJB-18; UPL-1
 Investigator(s): Jake Brillo, Nick DeJohn Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): Agricultural Field Local relief (concave, convex, none): Flat Slope (%): 2-5
 Subregion (LRR or MLRA): LRR L Lat: 42.8942728043 Long: -76.943329135 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 ____ 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 season		

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-JJB-18; 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>	65	Yes	NI	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
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: 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 ☒

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

Active agricultural field

SOIL

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

[illegible]

Vegetation Photos



Soil Photos



Photo of Sample Plot





WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Trelina City/County: Waterloo, Seneca Sampling Date: 2019-July-24
 Applicant/Owner: NextEra State: NY Sampling Point: W-JJB-18; UPL-2
 Investigator(s): Jake Brillo, Nick DeJohn Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): Agricultural Field Local relief (concave, convex, none): Flat Slope (%): 1-10
 Subregion (LRR or MLRA): LRR L Lat: 42.8957885458 Long: -76.9437427819 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 ____ 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 season		

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-JJB-18; UPL-2

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>		65	Yes	NI
2.					
3.					
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	

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>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 =

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-JJB-18; UPL-2

[illegible]

Vegetation Photos



Soil Photos



Photo of Sample Plot



WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Trelina City/County: Waterloo, Seneca Sampling Date: 2019-July-24
 Applicant/Owner: NextEra State: NY Sampling Point: W-JJB-19; PFO-1
 Investigator(s): Nick DeJohn, Jake Brillo Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none): Concave Slope (%): 0-1
 Subregion (LRR or MLRA): LRR L Lat: 42.890072926 Long: -76.9400022738 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 <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-JJB-19</u>
Remarks: (Explain alternative procedures here or in a separate report)		
<p>TRC coverype is PFO. 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 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 ____ 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:		

Sampling Point: W-JJB-19; PFO-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. <i>Fraxinus pennsylvanica</i>	35	Yes	FACW	4			(A)
2.				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	20	x 1 =	20
7.				FACW species	80	x 2 =	160
	35	= Total Cover		FAC species	0	x 3 =	0
Sapling/Shrub Stratum (Plot size: 15 ft)				FACU species	0	x 4 =	0
1. <i>Cornus amomum</i>	15	Yes	FACW	UPL species	0	x 5 =	0
2.				Column Totals	100	(A)	180 (B)
3.				Prevalence Index = B/A =			1.8
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			
	15	= Total Cover		4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)			
Herb Stratum (Plot size: 5 ft)				Problematic Hydrophytic Vegetation ¹ (Explain)			
1. <i>Impatiens capensis</i>	30	Yes	FACW	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic			
2. <i>Glyceria striata</i>	20	Yes	OBL	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			
8.							
9.							
10.							
11.							
12.							
	50	= 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-JJB-19; 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-July-24
 Applicant/Owner: NextEra State: NY Sampling Point: W-JJB-19; UPL-2
 Investigator(s): Nick DeJohn, Jake Brillo 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: 42.8911261959 Long: -76.9406494406 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. 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-JJB-19; UPL-2

Tree Stratum (Plot size: 30 ft)				Dominance Test worksheet:				
	Absolute % Cover	Dominant Species?	Indicator Status					
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.								
6.								
7.								
				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 =				
Sapling/Shrub Stratum (Plot size: 15 ft)				Hydrophytic Vegetation Indicators:				
1.				1 - Rapid Test for Hydrophytic Vegetation				
2.				2 - Dominance Test is > 50%				
3.				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.				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 <input checked="" type="checkbox"/>				
Herb Stratum (Plot size: 5 ft)								
1.	<i>Glycine max</i>	10	Yes	NI				
2.								
3.								
4.								
5.								
6.								
7.								
8.								
9.								
10.								
11.								
12.								
				10		= 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-JJB-19; UPL-2

[illegible]

Vegetation Photos



Soil Photos



WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Trelina City/County: Waterloo, Seneca Sampling Date: 2019-June-24
 Applicant/Owner: NextEra State: NY Sampling Point: W-NWJ-01; 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: 42.9030633253 Long: -76.9477527682 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 <input type="checkbox"/>	Is the Sampled Area within a Wetland?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Hydric Soil Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	If yes, optional Wetland Site ID:	W-NWJ-01
Wetland Hydrology Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		
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: 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 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 checked="" type="checkbox"/> FAC-Neutral Test (D5)			
Field Observations:					
Surface Water Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches):			
Water Table Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches):			
Saturation Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Depth (inches):	0		
(includes capillary fringe)			Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input 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-01; PEM-1

Tree Stratum (Plot size: <u>30 ft</u>)	Absolute % Cover	Dominant Species?	Indicator Status																																									
1. <i>Acer saccharinum</i>	15	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>Fraxinus pennsylvanica</i>	10	Yes	FACW																																									
3. _____	_____	_____	_____																																									
4. _____	_____	_____	_____																																									
5. _____	_____	_____	_____																																									
6. _____	_____	_____	_____																																									
7. _____	_____	_____	_____																																									
	25	= 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>55</td> <td>x 1 =</td> <td>55</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>0</td> <td>x 3 =</td> <td>0</td> <td></td> </tr> <tr> <td>FACU species</td> <td>30</td> <td>x 4 =</td> <td>120</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>110</td> <td>(A)</td> <td>225</td> <td>(B)</td> </tr> <tr> <td colspan="5">Prevalence Index = B/A = <u>2</u></td> </tr> </tbody> </table>	Total % Cover of:		Multiply By:			OBL species	55	x 1 =	55		FACW species	25	x 2 =	50		FAC species	0	x 3 =	0		FACU species	30	x 4 =	120		UPL species	0	x 5 =	0		Column Totals	110	(A)	225	(B)	Prevalence Index = B/A = <u>2</u>				
Total % Cover of:		Multiply By:																																										
OBL species	55	x 1 =	55																																									
FACW species	25	x 2 =	50																																									
FAC species	0	x 3 =	0																																									
FACU species	30	x 4 =	120																																									
UPL species	0	x 5 =	0																																									
Column Totals	110	(A)	225	(B)																																								
Prevalence Index = B/A = <u>2</u>																																												
Sapling/Shrub Stratum (Plot size: <u>15 ft</u>)																																												
1. <i>Salix nigra</i>	5	Yes	OBL																																									
2. _____	_____	_____	_____																																									
3. _____	_____	_____	_____																																									
4. _____	_____	_____	_____																																									
5. _____	_____	_____	_____																																									
6. _____	_____	_____	_____																																									
7. _____	_____	_____	_____																																									
	5	= Total Cover																																										
Herb Stratum (Plot size: <u>5 ft</u>)																																												
1. <i>Typha latifolia</i>	40	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>Solidago caesia</i>	30	Yes	FACU																																									
3. <i>Asclepias incarnata</i>	10	No	OBL																																									
4. _____	_____	_____	_____																																									
5. _____	_____	_____	_____																																									
6. _____	_____	_____	_____																																									
7. _____	_____	_____	_____																																									
8. _____	_____	_____	_____																																									
9. _____	_____	_____	_____																																									
10. _____	_____	_____	_____																																									
11. _____	_____	_____	_____																																									
12. _____	_____	_____	_____																																									
	80	= 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. _____	_____	_____	_____																																									
5. _____	_____	_____	_____																																									
	0	= Total Cover																																										

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

SOIL

Sampling Point: W-NWJ-01; 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-24
 Applicant/Owner: NextEra State: NY Sampling Point: W-NWJ-01; 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: 42.903034282 Long: -76.9475850464 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-01
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 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 checked="" 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 <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-01; 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>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>	25	Yes	FACW	
3. <i>Acer saccharinum</i>	15	No	FACW	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	Prevalence Index worksheet: <div style="display: flex; justify-content: space-between;"> <div> Total % Cover of: OBL species <u>0</u> FACW species <u>70</u> FAC species <u>75</u> FACU species <u>0</u> UPL species <u>0</u> Column Totals <u>145</u> </div> <div> Multiply By: x 1 = <u>0</u> x 2 = <u>140</u> x 3 = <u>225</u> x 4 = <u>0</u> x 5 = <u>0</u> (A) <u>365</u> (B) </div> </div> Prevalence Index = B/A = <u>2.5</u>
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
	<u>80</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>Acer rubrum</i>	15	Yes	FAC	
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>15</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>	30	Yes	FACW	
2. <i>Toxicodendron radicans</i>	20	Yes	FAC	
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-01; 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-24
 Applicant/Owner: NextEra State: NY Sampling Point: W-NWJ-01; 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: 42.9032963422 Long: -76.9476159756 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. 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 <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-01; 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 style="text-align: center;"><u>0</u></td><td>x 1 =</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 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>15</u></td><td>x 5 =</td><td style="text-align: center;"><u>75</u></td><td></td></tr> <tr><td>Column Totals</td><td style="text-align: center;"><u>15</u></td><td>(A)</td><td style="text-align: center;"><u>75</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>		FACU species	<u>0</u>	x 4 =	<u>0</u>		UPL species	<u>15</u>	x 5 =	<u>75</u>		Column Totals	<u>15</u>	(A)	<u>75</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>																																									
FACU species	<u>0</u>	x 4 =	<u>0</u>																																									
UPL species	<u>15</u>	x 5 =	<u>75</u>																																									
Column Totals	<u>15</u>	(A)	<u>75</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>15</u>	Yes	UPL																																									
2. _____	_____	_____	_____																																									
3. _____	_____	_____	_____																																									
4. _____	_____	_____	_____																																									
5. _____	_____	_____	_____																																									
6. _____	_____	_____	_____																																									
7. _____	_____	_____	_____																																									
8. _____	_____	_____	_____																																									
9. _____	_____	_____	_____																																									
10. _____	_____	_____	_____																																									
11. _____	_____	_____	_____																																									
12. _____	_____	_____	_____																																									
	<u>15</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-01; 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-24
 Applicant/Owner: NextEra State: NY Sampling Point: W-NWJ-02; 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: 42.9022238357 Long: -76.9410484192 Datum: WGS84
 Soil Map Unit Name: Elnora 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-02</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 checked="" 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 ____ (includes capillary fringe)	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-02; PFO-1

Tree Stratum (Plot size: <u>30 ft</u>)				Dominance Test worksheet:	
	Absolute % Cover	Dominant Species?	Indicator Status		
1. <i>Fraxinus pennsylvanica</i>	70	Yes	FACW	Number of Dominant Species That Are OBL, FACW, or FAC:	5 (A)
2. _____	_____	_____	_____	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	0 x 1 = 0
7. _____	_____	_____	_____	FACW species	103 x 2 = 206
	70 = Total Cover			FAC species	30 x 3 = 90
Sapling/Shrub Stratum (Plot size: <u>15 ft</u>)				FACU species	0 x 4 = 0
1. <i>Fraxinus pennsylvanica</i>	25	Yes	FACW	UPL species	0 x 5 = 0
2. _____	_____	_____	_____	Column Totals	133 (A) 296 (B)
3. _____	_____	_____	_____	Prevalence Index = B/A =	2.2
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	
	25 = 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>Rhamnus cathartica</i>	10	Yes	FAC	Definitions of Vegetation Strata:	
3. <i>Onoclea sensibilis</i>	8	Yes	FACW	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. _____	_____	_____	_____		
	38 = 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-02; 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-24
 Applicant/Owner: NextEra State: NY Sampling Point: W-NWJ-02; 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: 42.901599 Long: -76.940731 Datum: WGS84
 Soil Map Unit Name: Arkport loamy fine sand, 1 to 6 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 ____ Depth (inches): _____ Water Table Present? Yes ____ No ____ Depth (inches): _____ Saturation Present? Yes ____ No ____ 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-02; 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. <u>Zea mays</u>	20	Yes	UPL	
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		

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	20 x 5 = 100
Column Totals	20 (A) 100 (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-02; 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-24
 Applicant/Owner: NextEra State: NY Sampling Point: W-NWJ-03; 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: 42.9010576616 Long: -76.9403347839 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 <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-03</u>
Remarks: (Explain alternative procedures here or in a separate report) TRC coverype is PEM. Reed canary wetland		

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 <u>✓</u> Depth (inches): _____ Water Table Present? Yes <u>✓</u> No ____ Depth (inches): <u>5</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-03; PEM-1

Tree Stratum (Plot size: 30 ft)				Dominance Test worksheet:	
	Absolute % Cover	Dominant Species?	Indicator Status		
1.				Number of Dominant Species That Are OBL, FACW, or FAC:	1 (A)
2.				Total Number of Dominant Species Across All Strata:	1 (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	4 x 1 = 4
7.				FACW species	85 x 2 = 170
	0	= Total Cover		FAC species	0 x 3 = 0
Sapling/Shrub Stratum (Plot size: 15 ft)				FACU species	0 x 4 = 0
1.				UPL species	0 x 5 = 0
2.				Column Totals	89 (A) 174 (B)
3.				Prevalence Index = B/A = 2	
4.				Hydrophytic Vegetation Indicators:	
5.				<input checked="" type="checkbox"/> 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: 5 ft)				<input checked="" type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain)	
1. <i>Phalaris arundinacea</i>	85	Yes	FACW	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic	
2. <i>Lythrum salicaria</i>	2	No	OBL	Definitions of Vegetation Strata:	
3. <i>Carex vulpinoidea</i>	2	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 <input type="checkbox"/>	
8.					
9.					
10.					
11.					
12.					
	89	= 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-03; 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-24
 Applicant/Owner: NextEra State: NY Sampling Point: W-NWJ-03; 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: 42.9017257831 Long: -76.9405778591 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 type="checkbox"/> No <input checked="" type="checkbox"/>	
Hydric Soil Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Wetland Hydrology Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	If yes, optional Wetland Site ID: _____
Remarks: (Explain alternative procedures here or in a separate report)		
<p>TRC coverype is UPL. Circumstances are not normal due to agricultural activities</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 <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): _____	Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): _____	
Saturation Present? Yes <input type="checkbox"/> 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-03; UPL-1

Tree Stratum (Plot size: <u>30 ft</u>)				Dominance Test worksheet:	
	Absolute % Cover	Dominant Species?	Indicator Status		
1. <i>Acer saccharinum</i>	10	Yes	FACW	Number of Dominant Species That Are OBL, FACW, or FAC:	2 (A)
2. <i>Fraxinus americana</i>	10	Yes	FACU	Total Number of Dominant Species Across All Strata:	6 (B)
3. _____	_____	_____	_____	Percent of Dominant Species That Are OBL, FACW, or FAC:	33.3 (A/B)
4. _____	_____	_____	_____	Prevalence Index worksheet:	
5. _____	_____	_____	_____	Total % Cover of:	Multiply By:
6. _____	_____	_____	_____	OBL species	0 x 1 = 0
7. _____	_____	_____	_____	FACW species	10 x 2 = 20
	20 = Total Cover			FAC species	15 x 3 = 45
Sapling/Shrub Stratum (Plot size: <u>15 ft</u>)				FACU species	90 x 4 = 360
1. <i>Rosa multiflora</i>	15	Yes	FACU	UPL species	0 x 5 = 0
2. <i>Fraxinus americana</i>	5	Yes	FACU	Column Totals	115 (A) 425 (B)
3. _____	_____	_____	_____	Prevalence Index = B/A = <u>3.7</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	
	20 = 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>	60	Yes	FACU	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic	
2. <i>Toxicodendron radicans</i>	15	Yes	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 ____ No <u>✓</u>	
8. _____	_____	_____	_____		
9. _____	_____	_____	_____		
10. _____	_____	_____	_____		
11. _____	_____	_____	_____		
12. _____	_____	_____	_____		
	75 = 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-03; 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-24
 Applicant/Owner: NextEra State: NY Sampling Point: W-NWJ-04; 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: 42.9041784956 Long: -76.9447906037 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 ____	
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-04</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 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 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 checked="" 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>4</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-04; PFO-1

Tree Stratum (Plot size: <u>30 ft</u>)				Dominance Test worksheet:	
	Absolute % Cover	Dominant Species?	Indicator Status		
1. <i>Betula alleghaniensis</i>	40	Yes	FAC	Number of Dominant Species That Are OBL, FACW, or FAC:	2 (A)
2. <i>Acer rubrum</i>	10	No	FAC	Total Number of Dominant Species Across All Strata:	3 (B)
3. <i>Carya ovata</i>	5	No	FACU	Percent of Dominant Species That Are OBL, FACW, or FAC:	66.7 (A/B)
4.				Prevalence Index worksheet:	
5.				Total % Cover of:	Multiply By:
6.				OBL species	0 x 1 = 0
7.				FACW species	50 x 2 = 100
	55	= Total Cover		FAC species	50 x 3 = 150
Sapling/Shrub Stratum (Plot size: <u>15 ft</u>)				FACU species	15 x 4 = 60
1. <i>Rosa multiflora</i>	10	Yes	FACU	UPL species	0 x 5 = 0
2.				Column Totals	115 (A) 310 (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	
	10	= 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>Carex intumescens</i>	45	Yes	FACW	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic	
2. <i>Dryopteris carthusiana</i>	5	No	FACW	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.					
	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-04; 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-24
 Applicant/Owner: NextEra State: NY Sampling Point: W-NWJ-04; UPL-1
 Investigator(s): Nick DeJohn, Nate Jones Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): Hillslope Local relief (concave, convex, none): None Slope (%): 2-5
 Subregion (LRR or MLRA): LRR R Lat: 42.9042920703 Long: -76.9447468501 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. 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-04; UPL-1

<u>Tree Stratum</u> (Plot size: <u>30 ft</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:				
1. <i>Betula alleghaniensis</i>	30	Yes	FAC	Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A)				
2. <i>Carya ovata</i>	15	Yes	FACU	Total Number of Dominant Species Across All Strata: <u>3</u> (B)				
3. <i>Fagus grandifolia</i>	10	No	FACU	Percent of Dominant Species That Are OBL, FACW, or FAC: <u>33.3</u> (A/B)				
4. _____	_____	_____	_____	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>30</u> FACU species <u>45</u> UPL species <u>0</u> Column Totals <u>75</u> </div> <div> Multiply By: x 1 = <u>0</u> x 2 = <u>0</u> x 3 = <u>90</u> x 4 = <u>180</u> x 5 = <u>0</u> (A) <u>270</u> (B) </div> </div> Prevalence Index = B/A = <u>3.6</u>				
5. _____	_____	_____	_____					
6. _____	_____	_____	_____					
7. _____	_____	_____	_____					
	<u>55</u>	= Total Cover						
<u>Sapling/Shrub Stratum</u> (Plot size: <u>15 ft</u>)								
1. _____	_____	_____	_____					
2. _____	_____	_____	_____					
3. _____	_____	_____	_____					
4. _____	_____	_____	_____					
5. _____	_____	_____	_____					
6. _____	_____	_____	_____					
7. _____	_____	_____	_____					
	<u>0</u>	= Total Cover						
<u>Herb Stratum</u> (Plot size: <u>5 ft</u>)								
1. <i>Podophyllum peltatum</i>	20	Yes	FACU	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.				
2. _____	_____	_____	_____					
3. _____	_____	_____	_____					
4. _____	_____	_____	_____					
5. _____	_____	_____	_____					
6. _____	_____	_____	_____					
7. _____	_____	_____	_____					
8. _____	_____	_____	_____					
9. _____	_____	_____	_____					
10. _____	_____	_____	_____					
11. _____	_____	_____	_____					
12. _____	_____	_____	_____					
	<u>20</u>	= Total Cover						
<u>Woody Vine Stratum</u> (Plot size: <u>30 ft</u>)								
1. _____	_____	_____	_____	Hydrophytic Vegetation Present? Yes ____ No <u>✓</u>				
2. _____	_____	_____	_____					
3. _____	_____	_____	_____					
4. _____	_____	_____	_____					
	<u>0</u>	= Total Cover						
Remarks: (Include photo numbers here or on a separate sheet.)								

SOIL

Sampling Point: W-NWJ-04; 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-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: W-NWJ-05
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:					