Appendix 14-1

Wetland and Stream Delineation Report



# WETLAND AND STREAM DELINEATION REPORT RIVERSIDE SOLAR PROJECT

Towns of Lyme and Brownville, Jefferson County, New York

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## 1.0 INTRODUCTION

#### 1.1 **Project Description and Purpose**

Riverside Solar, LLC (Riverside Solar), a subsidiary of AES Corporation (AES), proposes the construction of an approximately 100-megawatt (MW) photovoltaic (PV) solar energy generation facility (Facility) called the Riverside Solar Project (Project) in the Towns of Lyme and Brownville, Jefferson County, New York. The Project will be developed on approximately 1,000 acres of leased, private land owned by a number of participating landowners (Project Area) (see Figure 1). The Project Area consists of nine parcels located east of the Village of Chaumont, as well as one additional parcel located approximately seven miles east-northeast of Chaumont. Riverside Solar contracted with TRC Environmental Corporation (TRC) to delineate the boundaries of wetlands and aquatic features within this Project Area (the Survey Area).

#### 1.2 Report Purpose

TRC conducted a wetland and stream delineation of the Project Area on behalf of Riverside Solar from June 1 to June 5, September 23, and December 17, 2020. This report describes the wetlands and surface waters identified within the Project Area (including rivers, streams, ponds, and lakes), regardless of jurisdictional status. Potential jurisdictional status is provided for each delineated feature to facilitate planning and implementation of setbacks as required by state agencies and client internal processes for wetland and waterbodies which may be regulated.

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 Survey Area using a handheld Global Positioning System (GPS) with reported sub-meter accuracy; and,
- 3. Documentation of the delineated aquatic features, wetlands, and surface waters including the assumed potential 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) and the New York State Department of Environmental Conservation (NYSDEC).



# 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]).

On June 22, 2020, the Step Two Rule (Navigable Waters Protection Rule) took effect. The Navigable Waters Protection Rule 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:

- 1. 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.
- 2. Tributaries of such waters;
  - 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.

- 3. 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.
- 4. 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.

#### Exclusions

Twelve exclusions from the WOTUS definition, or non-jurisdictional waters, include: groundwater; ephemeral streams; stormwater runoff and stormwater control features; ditches that are not jurisdictional; prior converted cropland; artificial lakes and ponds; and artificially irrigated areas, including agricultural areas that would revert to uplands were the irrigation to cease.

#### 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 6NYCRR 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. Under Part 663, approval under an Article 24 permit is required from the NYSDEC 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, provides the NYSDEC with regulatory jurisdiction over 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. 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 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." Article 15 of the ECL and 6 NYCRR Part 608 also provide NYSDEC jurisdiction over navigable waters of the State, including contiguous marshes, estuaries, tidal marshes and wetlands that are inundated at mean high water level or tide.

## 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) Dexter and Brownville New York 7.5-minute quadrangles;
- United States Department of Agriculture (USDA) Ecoregion Maps;
- USGS National Hydrography Dataset;
- USGS Hydrologic Unit Maps;
- Federal Emergency Management Agency (FEMA) Flood Insurance Rate Map (FIRM) Panels 3603430050C (effective 9/2/1993), 3603430041C (effective 9/2/1993), and 361063C (effective 6/2/1992).
- 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 imagery.

#### 3.2 Vegetation and Ecological Communities

The Project Area resides in the Eastern Broadleaf Forest (Continental) Province, within the Eastern Great Lakes Lowlands Level III Ecoregion (83) and the Ontario Lowlands level IV Ecoregion (83c) (Bailey 1995; Bryce et al. 2010). 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.

Recent aerial orthoimagery of the Project Area and surrounding vicinity, obtained from Google Earth (V7.3.3.7699) (9/5/2016), indicates that the Project Area consists primarily of agricultural fields with some undeveloped natural meadow and wooded areas. Several farm buildings and/or rural residences are located within the western parcels of the Project Area, on the north side of Case Road, and one farm residence is located within the easternmost parcel of the Project Area, on the north side of Vaadi Road. Land within the surrounding areas is also primarily used for agricultural production, interspersed with undeveloped forested areas. A large state-regulated wetland complex is mapped surrounding the easternmost parcel of the Project Area (see Section 3.4, below). The Village of Chaumont, containing residential and commercial developments, is located west of the Project Area.

The following ecological communities, as defined by *Ecological Communities of New York State* (Edinger et al., 2014), were identified within the Project Area at the time of the delineation:

- Maple-basswood rich mesic forest
- Spruce-fir swamp
- Common reed marsh
- Deep emergent marsh
- Shallow emergent marsh
- Shrub swamp
- Red maple-hardwood swamp
- Impounded marsh
- Riverside sand/gravel bar
- Cropland/row crops
- Cropland/field crops
- Pastureland
- Successional old field
- Successional shrubland
- Mowed lawn
- Mowed roadside/pathway
- Ditch/artificial intermittent stream

# 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 Chaumont-Perch sub-basin (HUC 04150102), with the western parcels located in the Horse-Creek – Frontal Lake Ontario sub-watershed (HUC 041501020202). The northern portion of the easternmost parcel is situated within the Lower Perch River sub-watershed (HUC 041501020302) and its southern portion within the Lower Perch River sub-watershed (HUC 041501020303) (USEPA 2017).

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. 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 Lake Ontario and Minor Tributaries watershed (NYSDEC 2014b). This drainage basin includes 2,460 square miles of land area and includes 5,891 miles of freshwater rivers and streams and 18,042 acres of lakes, ponds, and reservoirs.

Two NYSDEC-mapped rivers, the Perch and Chaumont Rivers, are located near the Project Area. At its closest point, the Perch River runs approximately 500 feet to the southeast of the easternmost parcel of the Project Area. The Perch River continues to the southwest, emptying into Black River Bay of Lake Ontario about 4.25 miles south of the Project Area. The Chaumont River, at its nearest point to the Project Area, is located approximately 0.75 miles to the northwest

of the Project Area. It flows to the south-southwest into Chaumont Bay in Lake Ontario approximately one mile west of the Project Area.

## 3.3.2 Hydrologic Character

The predominant surface waterbodies within and adjacent to the Project Area are unnamed tributaries to Guffin Creek and Lake Ontario within the western parcels of the Project Area and unnamed tributaries to the Perch River east of the Project Area. The Lower Chaumont River, located approximately 0.75 mile to the northwest of the Project Area, and its tributaries from Lake Ontario to Depauville are classified as NYSDEC Class C waterways. The upper reaches of the river have not been assessed (NYSDEC 2008). In addition, unnamed tributaries to Guffin Creek, also identified by the NYSDEC as Class C waterways, are mapped within the Project Area north of Case Road. The Perch River, located approximately 500 feet southeast of the Project Area is also designated by the NYSDEC as a Class C waterway but its middle and lower reaches (including Perch Lake) have not been assessed (NYSDEC 2008). Waterways with a Class C designation are not afforded state protections but may be protected under the federal CWA.

According to climate data from the City of Watertown, located approximately 8 miles southeast of the Project Area, this region receives an average of 43.1 inches of precipitation annually (U.S. Climate Data 2020). In general, water drains from the Project Area to the west towards Lake Ontario, in some areas draining north/northwest and in others draining south/southwest. Hydrologic conditions were normal during the delineation, with 0.8 inch of precipitation logged in Watertown during the delineation effort and 2.08 inches recorded during the preceding week.

## 3.3.3 FEMA Flood Zone Mapping

FEMA maintains materials developed to support flood hazard mapping for the National Flood Insurance Program (NFIP). The Project Area falls within FEMA FIRM Panels 360343005C (effective 9/2/1993), 3603430041C (effective 9/2/1993), and 361063C (effective 6/2/1992) (FEMA 2020). The area along Horse Creek in the northwest portion of the Project Area, as well as the area along several small tributaries to Guffin Creek north of Case Road, are within the FEMA-mapped 100-year flood hazard area, Zone A (Figure 3; FEMA 2020).

#### 3.4 Federal and State Mapped Wetlands and Streams

The USFWS is the principal 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 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 wetland scientists to conduct a more informed site survey

in the demarcation or delineation of wetlands and streams, which could be subject to federal jurisdiction .

Review of the NWI mapping during the preliminary desktop analysis indicated numerous wetland areas are mapped within the Project Area boundaries (Figure 3). Within the western Project Area parcels, these included eight palustrine emergent (PEM) wetlands, four palustrine scrub-shrub (PSS) wetlands, three wetlands identified as PSS/PEM wetlands, and one palustrine unconsolidated bottom (PUB) mapped entirely within the Project Area boundaries. Portions of two PEM wetlands, one PSS wetland, and one PUB/PEM wetland are mapped as partially within these parcels.

One state-regulated wetland is mapped by the NYSDEC as overlapping the Project Area (Figure 3; NYSDEC 2014a). An approximately 2.4-acre portion of Wetland X-6 as well as the associated State-regulated adjacent area is mapped within the eastern part of the contiguous Project Area... Wetland X-6 is designated by the NYSDEC as a Class 2 wetland and is mapped as comprising 782 acres, extending east of the Project Area. This NYSDEC-protected wetland adjoins portions of TRC-delineated wetland W-BF-6, and is assumed hydrologically connected thereto.

Three additional NYSDEC wetlands are mapped within one mile of the Project Area (Figure 3; NYSDEC 2014a). Wetland BV-1 is a Class 1 wetland and is 59,247 acres in area. It is located north and south of that Project Area outparcel adjoining State Route 12, north of Perch River. . Wetland X-10 is an 84.5-acre Class 2 wetland and is located approximately 0.5 mile southeast of the Project Area, at the mouth of Guffin Creek. This feature is downstream of the unnamed waterway that runs adjacent to Case Road (see below for more detail on mapped waterways within the Project Area). Finally, the area adjacent to the Chaumont River, located approximately 0.75 mile west-northwest of the Project Area, is also identified as a state-regulated wetland. Wetland X-5 is also designated as a Class 2 wetland (NYSDEC 2014a).

There are also numerous riverine wetland systems mapped within the Project Area. Each of the waterways mapped within the Project Area are mapped as perennial features by both the NWI and USGS National Hydrography Dataset (NHD) (USFWS 2020; USGS 2018). Three unnamed waterways are mapped within the eastern portions of the Project Area, draining southwest to a common unnamed waterway mapped to the north of Case Road (Figure 3; USGS 2018). Portions of two of these waterways as well as the waterway along Case Road are identified by the NWI as excavated (human-made) features (USFWS 2020). The waterway adjacent to Case Road continues offsite to the southwest where it drains into Guffin Bay of Lake Ontario. Each of these waterways are classified by the NYSDEC as Class C waterways (NYSDEC 2014a). Another excavated perennial waterway is mapped near the center portions of the Project Area (Figure 3). This feature continues offsite to the southwest and empties directly into Guffin Bay and is not identified by the NYSDEC Environmental Resource Mapper (NYSDEC 2014a). Another perennial waterway, Horse Creek, is mapped as crossing through the northwesternmost corner of the Project Area (Figure 3). This creek flows offsite to the west where is drains into Chaumont Bay in Lake Ontario and is also identified by the NYSDEC as a Class C feature (USGS 2018; NYSDEC 2014a). No waterways are mapped within the easternmost parcels of the Project Area (USGS

2018; NYSDEC 2014a). NYSDEC-mapped waterways within the Project Area are listed in Table 1, below.

While these resources provide general information about the location, size, and quality of wetlands and waterways, field verification is required to confirm the presence or absence and the extent of aquatic features within the Project Area. During field surveys, TRC scientists delineated additional unmapped wetlands and waterways. These results are discussed in detail in Section 5.0.

NYSDEC Stream Name and Regulatory ID Number	NYS Major Drainage Basin USGS Sub-basin HUC 8 and Name au		NYSDEC Classification <sup>1</sup> and Standard <sup>2</sup>	Cumulative Linear Feet within the Project Area					
Horse Creek – 847-22	Lake Ontario	04150102 – Chaumont_Perch	Class C	1542					
Unnamed tributaries to Guffin Bay – 847-23	Lake Ontario	04150102 – Chaumont_Perch	Class C	10,779					
<sup>1</sup> 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.									

## Table 1. NYSDEC-Mapped Streams within the Project Area

# 3.5 Topography and Soil Characteristics

## 3.5.1 Topography

The Project Area is relatively flat, ranging from about 280 – 380 feet above mean sea level (AMSL) with a woodlot within the easternmost Project Area parcel comprising the highest point in the Project Area. In general, topography slopes gradually down from east to west, towards Lake Ontario.

## 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 United States. 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 14 soil map units were identified within the Survey 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 47.8 percent of mapped soils classified as moderately well drained, 30.1 percent mapped as somewhat poorly drained, 13.0 percent classified as poorly drained, and lesser proportions mapped as very poorly drained (3.9 percent), excessively drained (5.1 percent), somewhat excessively drained (3.3 percent), and well drained (0.2 percent). The majority of soils within the Project Area (~80.9 percent) are classified as farmland of statewide important, with approximately 19.1 percent mapped as not prime farmland. No soils mapped within the Project Area are mapped as prime farmland (USDA NRCS 2019). The 14 soil map units identified within the Project Area by the NRCS are outlined in Table 2. Refer to Figure 2 for graphically depicted soil map units of the Project Area.

Map Unit Symbol	Map Unit Name	Slope	Drainage Class	Hydric Rating	Acres in Survey Area	Percent of Survey Area
BgB	Benson-Galoo complex, very rocky	0-8%	Somewhat excessively drained	0%	3.3	0.3%
CIA	Chaumont silty clay	0-3%	Somewhat poorly drained	12%	23.8	2.2%
CIB	Chaumont silty clay	3-8%	Somewhat poorly drained	7%	12.1	1.1%
Ср	Covington silty clay	0-3%	Poorly drained	90%	99.0	9.3%
FaB	Farmington loam	0-8%	Well drained	5%	2.5	0.2%
Fu	Fluvaquents- Udifluvents complex, frequently flooded	0-3%	Poorly drained	48%	5.1	0.5%
GbB	Galoo-rock outcrop complex	0-8%	Excessively drained	5%	54.7	5.1%
Gv	Guffin clay	0-3%	Poorly drained	85%	29.5	2.8%
KgA	Kingsbury silty clay	0-2%	Somewhat poorly drained	7%	257.8	24.2%
KgB	Kingsbury silty clay	2-6%	Somewhat poorly drained	6%	27.3	2.6%
Lc	Livingston mucky silty clay	0-3%	Very poorly drained	85%	41.8	3.9%
VeB	Vergennes silty clay loam	3-8%	Moderately well drained	0%	378.9	35.5%
WnB	Wilpoint silty clay loam	3-8%	Moderately well drained	8%	106.4	10.0%

Table 2. Mapped Soils within the Survey Area



Map Unit Symbol	Map Unit Name	Slope	Drainage Class	Hydric Rating	Acres in Survey Area	Percent of Survey Area
WnC	Wilpoint silty clay loam	8-15%	Moderately well drained	8%	24.7	2.3%

#### <u>Hydric Soil</u>

The Web Soil Survey of the Survey 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 Laboratory 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."

Soil map units are composed of one or more components or soil types, each of which can be rated as hydric or non-hydric. A map unit's hydric rating is based on the percentage of hydric soil components that make up the map unit. Thus, map units with a greater proportion of hydric components have a greater hydric soil rating. Map units with relatively high hydric soil ratings are more likely to correspond with potential wetland areas. Of the 14 soil map units mapped within the Project Area, five identified as having a relatively high proportion (33 percent or greater) of hydric components (Figure 2; USDA NRCS 2019). Although a soil map unit 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.



## 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 alongside other potential environmental constraints, which could impact the Project. TRC wetland scientists 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 *Army Corps of Engineers Wetlands Delineation Manual* (Environmental Laboratory 1987) (Manual) 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 Routine Wetland Determination Forms (Appendix C). The boundaries of wetlands were demarcated with pink survey ribbon labeled "wetland delineation" and located with a GPS unit with reported sub-meter accuracy.

## 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. Hydrology is present if one or more primary indicator 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 Routine Wetland Determination 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 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: 2018 Wetland* 

*Ratings* (USACE 2018) (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 Routine Wetland Determination 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 wetland boundary results of this approach may 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 (FGDC 2013). Field biologists assign cover types to wetlands based on this classification standard and utilize this document. TRC biologists also 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, including 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). 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* (USDA NRCS 2006) (MLRA Handbook). Per the MLRA Handbook, the Project Area is within Major Land Resource Area 144A (New England and Eastern New York Upland, Southern Part) of Land Resource Region (LRR) R (Northeastern Forage and Forest Region). Hydric soil indicators that do not apply to this MLRA were not considered.

#### 4.4 Streams

Streams and other non-wetland aquatic features (e.g., lakes and ponds, if any) within the Project Area were identified by the presence of standing surface water or confined flow, and, with the exception of some ephemeral streams, a bed and bank containing an ordinary high water mark (OHWM) (33 CFR 328.3). The OHWM is formed by the fluctuations of water, and where not established and available by public record, is determined 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.

The streams were delineated from bank to bank with blue flagging 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 Stream Inventory Data Forms (Appendix C).



Steams are identified as to their flow regime of perennial, intermittent or ephemeral. Perennial streams tend to flow throughout the year, except during severe drought conditions. They can flow below the water table and receive groundwater sources from springs or groundwater seepages on slopes. Intermittent streams flow only during certain times of year from alternating springs, snow melt, or from seasonal precipitation runoff. Ephemeral streams flow sporadically and are entirely dependent on precipitation from storm events or periodic snow melts. They 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. Identification in the field was based on characteristics including degree of channel formation, volume of flow, landscape setting, position relative to groundwater table, and presence/absence of aquatic fauna.

## 5.0 RESULTS

## 5.1 General Overview

The Project Area contains primarily upland agricultural fields, with areas of forested upland and wetland areas, scrub-shrub wetlands, emergent wetlands, and agricultural drainages. Dominant natural vegetation included American elm (*Ulmus americana*), black spruce (*Picea mariana*), green ash (*Fraxinus pennsylvanica*), and swamp white oak (*Quercus bicolor*) in the tree stratum; Morrow's honeysuckle (*Lonicera morrowii*), gray dogwood (*Cornus racemosa*), and black willow (*Salix nigra*) in the shrub stratum; and reed canary grass (*Phalaris arundinacea*), Kentucky bluegrass (*Poa pratensis*), white clover (*Trifolium repens*), narrowleaf cattail (*Typha angustifolia*), and American vetch (*Vicia americana*) in the herb stratum.

Conditions were relatively normal during the delineation effort, with the region receiving 0.80 inch of rain from June 1 to June 5 and a total of 2.08 inches of rain in the week prior to the field surveys (U.S. Climate Data 2020).

From June 1 to June 5, and on September 23, TRC delineated 23 wetlands and 9 waterways (Figure 4). Approximately 9.61 percent (104.22 acres) of the 1,084-acre Project Area was identified as wetland. Tables 3 and 4 below detail the wetlands and streams delineated in the Project Area. Representative photographs taken of each delineated wetland and stream community within the Project Area are provided in Appendix B. Completed USACE Routine Wetland Determination Forms and NYSDEC Stream Delineation Forms are provided in Appendix C.

## 5.2 Delineated Wetlands

**Palustrine Emergent wetlands (PEM) –** Eighteen wetlands delineated within the Project Area contained characteristics representative of an emergent wetland community. Emergent wetland communities are dominated by herbaceous vegetation, comprising woody or non-woody plants that are generally less than 3.28 feet tall (Cowardin et al. 1979).

Emergent wetlands delineated within the Project Area were typically dominated by reed canary grass, narrowleaf cattail, white meadowsweet (*Spiraea alba*), fox sedge (*Carex vulpinoidea*), soft rush (*Juncus effusus*), gray dogwood, and spotted touch-me-not (*Impatiens capensis*). Primary hydrology indicators typically recorded within these wetlands included saturation (A3), water-stained leaves (B9), and oxidized rhizospheres on living roots. Secondary indicators of hydrology typically observed within these wetlands included drainage patterns (B10), saturation visible in aerial imagery (C9), geomorphic position (D2), and a positive FAC-neutral test (D5). Emergent wetlands within the Project Area commonly contained clay loam, silty clay loam, and clay soils and soils typically demonstrated redox dark surface (F6) and / or depleted matrix (F3) indicators (Appendix C).

**Palustrine Scrub-shrub wetlands (PSS) –** Nine wetlands delineated within the Project Area contained characteristics representative of a scrub-shrub wetland community. These wetlands

are dominated by woody shrubs typically less than 20 feet tall (Cowardin et al. 1979). Scrub-shrub wetlands observed within the Project Area were dominated by gray dogwood, swamp white oak, American elm, black willow, Morrow's honeysuckle, and white meadowsweet. Evidence of hydrology observed within these wetlands typically included saturation (A3) and / or high water table (A2), and common secondary hydrology indicators observed including geomorphic position (D2), a positive FAC-neutral test (D5), and saturation visible in aerial imagery (C9). Clay loam and clay soils were typically recorded within these wetlands and soils demonstrated depleted matrix (F3) and / or redox dark surface (F6) hydric indicators.

**Palustrine Forested wetlands (PFO) –** Four wetlands identified within the Project Area were recorded as containing a forested wetland community. Forested wetlands are dominated by woody vegetation that typically has a diameter at breast height (DBH) of at least three inches, with an understory of shrub and herbaceous species (Cowardin et al. 1979).

Dominant vegetation in the forested wetlands observed within the Project Area typically included American elm, swamp white oak, black willow, and black spruce in the tree stratum, and gray dogwood and Morrow's honeysuckle within the shrub stratum. Forested wetlands within the Project Area were typically recorded as having saturation (A4) and / or high water table (A2) primary hydrology indicators, and microtopographic relief (D4) and a positive FAC-neutral test (D5) secondary indicators. Clayey soils were typical within these wetlands, with redox dark surface (F6) and / or a depleted matrix (F3) hydric soil indicators.

**Palustrine Unconsolidated Bottom wetlands (PUB)** – Three wetlands delineated within the Project Area were observed to contain characteristics representative of unconsolidated bottom wetland communities. These communities include wetland and deep-water habitats with at least 25 percent cover of particles smaller than stone, and a vegetative cover of less than 30 percent. Because these are bodies of standing water, evidence of hydrology is decisively present (Cowardin et al. 1979)

Although unconsolidated bottom wetlands are not typically heavily vegetated, dominant vegetation within those observed in the Project Area included American elm, swamp white oak, reed canary grass, and softstem bulrush (*Schoenoplectus tabernaemontani*). Primary hydrology indicators typically observed included surface water (A1), high water table (A2), and inundation visible in aerial imagery (B7). Secondary hydrology indicators typically observed within these wetlands included geomorphic position (D2) and a positive FAC-neutral test (D5). Clay soils were most frequently recorded within these wetlands and hydrogen sulfide (A4) and redox dark surface (F6) hydric soil indicators were observed.

Wetland Field	Cover Type Classification <sup>1</sup> and Acreage				Total Wetland Acreage within	NWI Cover	NYSDEC Wetland	NYSDEC Wetland	Stream(s) Present	Linear Feet of	Potential	Centroid Coordinates
Designation	PEM	PSS	PFO	PUB	Survey Area	туре	ID	Class	Within Wetland	Stream(s) Within Wetland		Coordinates
W-BF-2	0.17	-	-	-	0.17	PEM	N/A	N/A	-	-	Non- jurisdictional	44.0800 -76.0693
W-BF-3	0.14	-	-	-	0.14	PEM	N/A	N/A	-	-	Non- jurisdictional	44.0810 -76.0667
W-BF-5	44.3	2.30	-	0.25	46.85	PEM / PSS / PFO / PUB	N/A	N/A	S-BF-1	72	USACE	44.0736 -76.0687
W-BF-6	1.61	-	13.00	-	14.61	PEM / PFO	X-6 (check zone)	Class 2	-	-	USACE NYSDEC	44.0689 -76.0603
W-BF-7	1.48	-	-	0.03	1.51	PEM / PUB	N/A	N/A	-	-	USACE	44.0695 -76.0629
W-BF-8	0.13	-	-	-	0.13	PEM	N/A	N/A	-	-	Non- jurisdictional	44.0688 -76.0625
W-BF-9	2.51	-	-	-	2.51	PEM	N/A	N/A	S-BF-2	1446	USACE	44.0621 -76.0884
W-BF-10	1.44	-	-	-	1.44	PEM	N/A	N/A	S-BF-2	1323	USACE	44.0617 -76.0831
W-BF-11	11.81	0.77	-	-	12.58	PEM / PSS	N/A	N/A	S-BF-3	118	USACE	44.0530 -76.1196
W-BF-12	-	0.46	-	-	0.46	PSS	N/A	N/A	-	-	USACE	44.0588 -76.1001
W-JJB-2	-	1.72	-	-	1.72	PSS	N/A	N/A	-	-	USACE	44.0538 -76.1240
W-NSD-1	1.12	-	0.82	0.15	2.09	PEM / PFO / PUB	N/A	N/A	-	-	USACE	44.0694 -76.1147

## Table 3. Delineated Wetlands within the Survey Area

$\mathbf{O}$	TRC

Wetland Field	Cover T	ype Clas Acre	ssificatio age	on <sup>1</sup> and	Total Wetland Acreage within Survey Area	NWI Cover	NYSDEC Wetland	NYSDEC Wetland	Stream(s) Present	Linear Feet of	Potential Jurisdiction	Centroid Coordinates
Designation	PEM	PSS	PFO	PUB		Type	ID	Class	Wetland	Stream(s) Within Wetland		
W-NSD-2	0.03	-	-	-	0.03	PEM	N/A	N/A	-	-	Non- jurisdictional	44.0672 -76.1145
W-NSD-3	-	1.71	7.11	-	8.82	PSS / PFO	N/A	N/A	-	-	USACE	44.0664 -76.1120
W-NSD-4	-	0.40	-	-	0.40	PSS	N/A	N/A	-	-	Non- jurisdictional	44.0626 -76.1176
W-NSD-5	0.09	1.87	-	-	1.96	PEM / PSS	N/A	N/A	-	-	Non- jurisdictional	44.0607 -76.1134
W-NSD-6	-	0.30	-	-	0.30	PSS	N/A	N/A	-	-	Non- jurisdictional	44.0623 -76.1130
W-NSD-7	2.71	0.98	-	-	3.69	PEM / PSS	N/A	N/A	-	-	USACE	44.0609 -76.1050
W-NSD-9	0.09	-	-	-	0.09	PEM	N/A	N/A	-	-	USACE	44.0645 -76.0995
W-NSD-10	0.71	-	-	-	0.71	PEM	N/A	N/A	-	-	USACE	44.0663 -76.0967
W-NSD-11	2.47	-	-	-	2.47	PEM	N/A	N/A	-	-	USACE	44.0641 -76.0928
W-NSD-12	0.23	-	-	-	0.23	PEM	N/A	N/A	-	-	USACE	44.0639 -76.0897
W-NSD-13	1.31	-	-	-	1.31	PEM	N/A	N/A	S-BF-2 S-NSD-5	100 880	USACE	44.0639 -76.0897
То	tal Wetla	nd Acrea	age Delir	neated:	104.22	Total St	tream Lengt	h Within Wet	tlands	3,939		
<sup>1</sup> PEM – palustrine e	mergent;	PSS – pa	alustrine	scrub-sh	rub; PFO – pa	lustrine foreste	d; PUB – pal	ustrine uncon	solidated bo	ttom		



#### 5.3 Delineated Streams

Nine streams were delineated within the Project Area (Table 4). Stream classification is dependent on their usual level of flow regime. Perennial streams tend to flow throughout the year, except during severe drought conditions. They can flow below the water table and receive groundwater sources from springs or groundwater seepages on slopes. Intermittent streams flow only during certain times of year from alternating springs, snow melt, or from seasonal precipitation runoff. Ephemeral streams flow sporadically and are entirely dependent on precipitation from storm events or periodic snow melts. They 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.

Within the Project Area, one stream was recorded as perennial, two were observed to be ephemeral streams, and six were observed to have intermittent flow regimes. Stream substrates typically included silt/clay, and in some cases cobble or gravel. The majority of streams were recorded with a gentle (<2 percent) gradient, with one stream, S-NSD-2, observed to have a steep (4-6 percent) gradient. The majority of streams had a depth of 0-6 inches, with the exception of S-NSD-1, Horse Creek, which had an average depth of 36 inches. Average width at the ordinary high water mark ranged from 2-6 feet for the majority of the features, with S-NSD-1 having an average width of 30 feet. All streams identified within the Project Area were observed to primarily be used for drainage. However, frogs were observed to be present within five of the eight identified streams. No aquatic wildlife was observed within the two ephemeral streams, S-NSD-2, and S-NSD-4, as well as S-NSD-5, an intermittent feature. Three streams, S-BF-2, S-NSD-1, and S-NSD-5, are NYSDEC-mapped Class C waters.

Stream Field Designation	Flow Regime Classification	Linear Feet within Project Area	NYSDEC Stream Name and Regulatory ID	NYSDEC Classification	Potential Jurisdiction	Waterbody ID Number (WIN)	Stream Order <sup>1</sup>	Centroid Coordinates
S-BF-1	Intermittent	151	N/A	N/A	USACE	-	1	44.0664 -76.0713
S-BF-2	Intermittent	3,272	Unnamed Tributaries to Guffin Creek 847-22	Class C	USACE	Ont 9a-18a	2	44.0623 -76.0882
S-BF-3	Intermittent	1,256	N/A	N/A	USACE	Ont 9a-18a	1	44.0518 -76.1166
S-NSD-1	Perennial	1,542	Horse Creek 847-22	Class C	USACE	Ont 9a	3	44.0690 -76.1171
S-NSD-2	Ephemeral	45	N/A	N/A	Non- jurisdictional	-	2	44.0690 -76.1143
S-NSD-3	Intermittent	582	N/A	N/A	USACE	-	1	44.0646 -76.1150
S-NSD-4	Ephemeral	607	N/A	N/A	Non- jurisdictional	Ont 9a-18a	1	44.0664 -76.0917
S-NSD-5	Intermittent	3,661	Unnamed tributaries to Guffin Creek 847-23	Class C	USACE	Ont 9a-18a	1	44.0665 -76.0859
S-NSD-6	Intermittent	79	N/A	N/A	USACE	Ont 9a-18a	1	44.0632 -76.0928
Total Stre Delin	am Length eated:	11,195						
<sup>1</sup> Stream order is	reference to the S	trahler strean	n order based on t	he occurrence of stre	eas as delineated ir	n the field.		

## 6.0 CONCLUSIONS

TRC delineated a total of 23 wetlands, comprising 104.22 acres, within the Project Area, including 18 wetlands with PEM characteristics (72.35 acres), nine with PSS characteristics (10.51 acres), three with PFO characteristics (20.93 acres), and three with PUB characteristics (0.43 acres). Based on the 2020 Navigable Waters Protection Rule, TRC expects that 16 wetlands will be considered jurisdictional by the USACE, as they are hydrologically connected to WOTUS or extend offsite where connections are presumed. There are no USACE-required buffers surrounding USACE-jurisdictional wetlands. However, one of these wetlands, W-BF-6, is within an area mapped as a NYSDEC-regulated wetland, and therefore is expected to fall under NYSDEC protection, as well. Thus, a 100-foot buffer is expected to be required surrounding this wetlands. Seven of the identified wetlands appear to be isolated and considered to be non-jurisdictional to the USACE.

TRC also identified nine streams totaling approximately 11,195 linear feet within the Project Area. These included one perennial waterway, six intermittent streams, and two streams with ephemeral flow regimes. TRC anticipates that six of these will be considered jurisdictional by the USACE. The two ephemeral streams, S-NSD-2 and S-NSD-4 are not expected to be under USACE jurisdiction. Three streams, S-BF-2, S-NSD-1, and S-NSD-5 are mapped by the NYSDEC as Class C streams, and thus are not protected waters under Article 15 of the ECL.

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# APPENDIX A Figures




























































1. BASEMAP IMAGERY FROM ESRI "TERRRAIN" MAP SERVICE AND NYSGIS 10-FOOT CONTOURS. 2. ALL RESOURCES SHOWN AS DELINEATED BY TRC.

215 GREENFIELD PKWY, STE 102 LIVERPOOL, NY 13088 Ν 50 Feet 1:1,200 1 " = 100 ' 25



1. BASEMAP IMAGERY FROM ESRI "TERRRAIN" MAP SERVICE AND NYSGIS 10-FOOT CONTOURS. 2. ALL RESOURCES SHOWN AS DELINEATED BY TRC. 1:1,200 1 " = 100 '

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FIGURE 5 SHEET 8 OF 61 S. KRANES MARCH 2021 215 GREENFIELD PKWY, STE 102 LIVERPOOL, NY 13088

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1. "TE 2.	BASEMAP IMAGERY FROM ESRI RRRAIN* MAP SERVICE AND NYSGIS 10-FOOT CONTOURS. ALL RESOURCES SHOWN AS DELINEATED BY TRC.	1:1.200





























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SITE OVERVIEW PROJECT AREA DELINEATED WETLAND FLAG 1. BASEMAP MAGENY FROM ESNI TERRIANY MAP SERVICE AND HYSICS IGFOOT CONTOURS. 2. ALL RESOURCES SHOWN AS DELINEATED BY TRC.	DELINEATED WETLAND (TRC) USACE/NYSDEC DELINEATED WETLAND BOUNDARY LINE 1:1,200 1* = 100' 25 50 Feet	PROJECT: RIVERSIDE SOLAR LLC TOWNS OF LYME & BROWNVILLE JEFFERSON COUNTY, NY TITLE: DELINEATED RESOURCES BY PRESUMED JURISDICTIONAL STATUS DRAWN BY: D. BARLEY PROJECT NO: 373222 CHECKED BY: APPROVED BY: S. KRANES DATE: MARCH 2021 SHEET 47 OF 61 SHEET 47 OF 61

































## APPENDIX B Photograph Log





**1.** Overview of the Palustrine emergent (PEM) cover type portion of wetland W-BF-1, facing northeast. Photograph taken June 1, 2020.



**2.** Overview of the Palustrine emergent (PEM), cover type portion of wetland W-NSD-1, facing north. Photograph taken June 1, 2020.





**3.** Overview of the Palustrine forested (PFO) cover type portion of wetland W-NSD-1, facing southwest. Photograph taken June 1, 2020.



*4.* Overview of the Palustrine unconsolidated (PUB) cover type portion of wetland W-NSD-1., facing east. Photograph taken June 1, 2020.





**5.** Overview of the of the Palustrine scrub/shrub (PSS) cover type portion of wetland W-JJB-1, facing north.

Photograph taken June 1, 2020.



6. Overview of the of the Palustrine scrub/shrub (PSS) cover type portion of wetland W-JJB-2, facing north.

Photograph taken June 1, 2020.




**7.** Overview of the Palustrine emergent (PEM) cover type portion of wetland W-BF-2, facing northwest. Photograph taken June 1, 2020.



**8.** Overview of the Palustrine scrub/shrub (PSS) portion of wetland W-NSD-2, facing southeast. Photograph taken June 2, 2020.





**9.** Overview of the Palustrine emergent (PEM) cover type portion of wetland W-BF-3, facing west. Photograph taken June 1, 2020.



**10.** Overview of the Palustrine scrub/shrub (PSS) portion of wetland W-NSD-3, facing east. Photograph taken June 2, 2020.





**11.** Overview of the Palustrine forest (PFO) portion of wetland W-NSD-3, facing south. Photograph taken June 2, 2020.



**12.** Overview of the Palustrine emergent (PEM) cover type portion of wetland W-BF-4, facing west. Photograph taken June 2, 2020.





**13.** View of the Palustrine scrub/shrub (PSS) portion of wetland W-NSD-4, facing northwest. Photograph taken June 2, 2020.



**14.** View of the Palustrine scrub/shrub (PSS) portion of wetland W-BF-5, facing southeast. Photograph taken June 4, 2020.





**15.** View of the Palustrine forested (PFO) portions of wetland W-BF-5, facing southeast. Photograph taken June 4, 2020.



16. View of the Palustrine scrub/shrub (PSS) and Palustrine unconsolidated (PUB) portions of wetland W-BTF-5, facing southeast.
 Photograph taken June 4, 2020.





**17.** View of the Palustrine unconsolidated (PUB) portions of wetland W-BF-5, facing east. Photograph taken June 4, 2020.



**18.** View of the Palustrine scrub/shrub (PSS) portions of wetland W-NSD-5, Photograph taken June 2, 2020.





**19.** View of the Palustrine emergent (PEM) portions of wetland W-NSD-5, facing southeast. Photograph taken June 2, 2020.



**20.** View of the Palustrine scrub/shrub (PSS) portion of wetland W-BF-6, facing northwest. Photograph taken June 3, 2020.





**21.** View of the Palustrine scrub/shrub (PSS) portion of wetland W-NSD-6, facing north. Photograph taken June 3, 2020.



**22.** View of the Palustrine emergent (PEM) portion of wetland W-BF-7, facing east. Photograph taken June 3, 2020.





23. View of the Palustrine unconsolidated (PUB) portion of wetland W-BF-7, facing east. Photograph taken June 4, 2020.



**24.** View of the Palustrine scrub/shrub (PSS) portion of wetland W-NSD-7, facing northwest. Photograph taken June 3, 2020.





**25.** View of the Palustrine emergent (PEM) portion of wetland W-NSD-7, facing northwest. Photograph taken June 3, 2020.



**26.** View of the Palustrine emergent (PEM) portion of wetland W-BF-8, facing northwest. Photograph taken June 4, 2020.





**27.** View of the Palustrine emergent (PEM) portion of wetland W-NSD-8, facing northeast. Photograph taken June 4, 2020.



**28.** View of the Palustrine emergent (PEM) portion of wetland W-BF-9, facing south. Photograph taken June 4, 2020.





**28.** View of the Palustrine emergent (PEM) portion of wetland W-NSD-9, facing southwest. Photograph taken June 4, 2020.



**29.** View of the Palustrine emergent (PEM) portion of wetland W-BF-10, facing west. Photograph taken June 4, 2020.





**30.** View of the Palustrine emergent (PEM) portion of wetland W-NSD-10, facing northwest. Photograph taken June 4, 2020.



**31.** View of the Palustrine Forested (PFO) portion of wetland W-NSD-11, facing northeast. Photograph taken June 4, 2020.





**32.** View of the Palustrine emergent (PEM) portion of wetland W-BF-11, facing southwest. Photograph taken June 5, 2020.



**33.** View of the Palustrine emergent (PEM) portion of wetland W-NSD-11, facing northwest. Photograph taken June 4, 2020.





*34.* View of the Palustrine emergent (PEM) portion of wetland W-NSD-12, facing southwest. Photograph taken June 4, 2020.



**35.** View of the Palustrine emergent (PEM) portion of wetland W-NSD-13, facing northeast. Photograph taken June 5, 2020.



**36.** View of intermittent stream S-BF-1, facing northwest. Photograph taken June 3, 2020.



**36.** View of perennial stream S-NSD-1, facing southeast. Photograph taken June 1, 2020.





**37.** View of the Perennial stream S-BF-2, facing southeast. Photograph taken June 1, 2020.



**38.** View of ephemeral stream S-NSD-2, facing south. Photograph taken June 2, 2020.





**39.** View of intermittent stream S-NSD-3, facing north. Photograph taken June 2, 2020.



**40.** View of ephemeral stream S-NSD-4, facing northeast. Photograph taken June 4, 2020.





**41.** View of intermittent stream S-NSD-5, facing west. Photograph taken June 4, 2020.



# APPENDIX C Data Forms

# WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Riversio	oject/Site: Riverside Solar City/County: Chaumont, Jefferson					Sampling Date: 2020-June-01		
Applicant/Owner:	Geronimo				State: NY		Sampling Point:	W-BTF-01_PEM-1
Investigator(s): Bro	enner Fahrenz,	Bridgette Rooney, B	en Popham	Sec	tion, Township, Ra	inge:		
Landform (hillslope,	terrace, etc.):	Тое	Loca	al relief	(concave, convex	, none):	Concave	Slope (%): 0 to 1
Subregion (LRR or M	LRA): LRR	R		Lat:	44.0823851025	Long:	-76.0664535511	Datum: WGS84
Soil Map Unit Name:	FuFluvaqu	ents-Udifluvents co	mplex, frequently flo	boboc			NWI classific	cation:
Are climatic/hydrolog	Are climatic/hydrologic conditions on the site typical for this time of year? Yes 🖌 No (If no, explain in Remarks.)							rks.)
Are Vegetation,	Soil 🟒,	or Hydrology	significantly disturb	ed?	Are "Normal (	Circums	tances" present?	Yes No 🟒
Are Vegetation,	Soil,	or Hydrology	naturally problema	tic?	(If needed, ex	plain ar	ny answers in Rem	arks.)

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

Hydrophytic Vegetation Present?	Yes 🟒 No								
Hydric Soil Present?	Yes 🟒 No	Is the Sampled Area within a Wetland?	Yes 🟒 No						
Wetland Hydrology Present?	Yes 🟒 No	lf yes, optional Wetland Site ID:	W-BTF-01						
Remarks: (Explain alternative procedures here or in a separate report)									
Covertype is PEM. Circumstances are not normal due to agricultural activities. Cattle grazing.									

Wetland Hydrology Indicators:				
Primary Indicators (minimum o	of one is required; check al	Secondary Indicators (minimum of two required)		
<ul> <li>Surface Water (A1)</li> <li>High Water Table (A2)</li> <li>Saturation (A3)</li> <li>Water Marks (B1)</li> <li>Sediment Deposits (B2)</li> <li>Drift Deposits (B3)</li> <li>Algal Mat or Crust (B4)</li> <li>Iron Deposits (B5)</li> <li>Inundation Visible on Aeria</li> <li>Sparsely Vegetated Concav</li> </ul>	Wate Aqua Marl Hydri Oxidi Prese Recei Thin I Imagery (B7) Other e Surface (B8)	r-Stained Leaves (B9) tic Fauna (B13) Deposits (B15) ogen Sulfide Odor (C1) zed Rhizospheres on Living ence of Reduced Iron (C4) nt Iron Reduction in Tilled 9 Muck Surface (C7) r (Explain in Remarks)	g Roots (C3) Soils (C6)	<ul> <li>Surface Soil Cracks (B6)</li> <li>Drainage Patterns (B10)</li> <li>Moss Trim Lines (B16)</li> <li>Dry-Season Water Table (C2)</li> <li>Crayfish Burrows (C8)</li> <li>Saturation Visible on Aerial Imagery (C9)</li> <li>Stunted or Stressed Plants (D1)</li> <li>Geomorphic Position (D2)</li> <li>Shallow Aquitard (D3)</li> <li>Microtopographic Relief (D4)</li> <li>FAC-Neutral Test (D5)</li> </ul>
Field Observations:				
Surface Water Present?	Yes 🟒 No	Depth (inches):	2	_
Water Table Present?	Yes 🟒 No	Depth (inches):	7	Wetland Hydrology Present? Yes 🟒 No
Saturation Present?	Yes 🟒 No	Depth (inches):	6	_
(includes capillary fringe)				
Describe Recorded Data (strea	m gauge, monitoring well,	aerial photos, previous ins	pections), if	available:

# VEGETATION -- Use scientific names of plants.

# Sampling Point: W-BTF-01\_PEM-1

Tree Stratum (Plot size: <u>30 ft</u> )	Absolute % Cover	Dominant	Indicator	Dominance Test works	heet:		
1 Fravinus popper/lyanica	10	Voc	EACW	Are OBL, FACW, or FAC	:	4	(A)
Ouercus bicolor	5	Voc		Total Number of Domi	nant Species		(=)
2. Quercus bicolor		No		Across All Strata:	·	6	(B)
A		110	TACO	Percent of Dominant S	pecies That	66.7	(A/R)
т. 				Are OBL, FACW, or FAC	:		(7,1 D)
с. 				Prevalence Index work	sheet:		
7	·	·		Total % Cover	of:	<u>Multiply</u>	<u>By:</u>
/·	18	- Total Cov	or	OBL species	55	x 1 =	55
Sapling/Shrub Stratum (Plot size: 15 ft )	10	- 10tai COV		FACW species	50	x 2 =	100
1 Cratagus monogyna	15	Voc	EACU	FAC species	0	x 3 =	0
1. Crataegus monogyna		Voc	FACO	FACU species	18	x 4 =	72
2. Maius sp.	5	165	INI	UPL species	0	x 5 =	0
	·			Column Totals	123	(A)	227 (B)
4	·	·		Prevalence Ir	ndex = B/A =	1.8	
5	·			Hydrophytic Vegetatio	n Indicators:		
6	·			1- Rapid Test for I	- Hydrophytic V	egetation	I
/	·			2 - Dominance Te	st is >50%	•	
	20	= Total Cov	er	3 - Prevalence Inc	lex is $\leq 3.0^1$		
Herb Stratum (Plot size: <u>5 ft</u> )				4 - Morphological	Adaptations <sup>1</sup>	(Provide	supporting
1. Typha angustifolia	55	Yes	OBL	data in Remarks or on	a separate sh	neet)	
2. <u>Poa palustris</u>	30	Yes	FACW	Problematic Hydr	ophytic Vege	tation <sup>1</sup> (E>	(plain)
3. <i>Phalaris arundinacea</i>	5	No	FACW	<sup>1</sup> Indicators of hydric sc	il and wetlan	d hydrolo	gy must be
4				present, unless disturb	ed or probler	matic	
5				Definitions of Vegetation	on Strata:		
6	<u> </u>			Tree – Woody plants 3	in. (7.6 cm) or	r more in o	diameter at
7				breast height (DBH), re	gardless of h	eight.	
8				Sapling/shrub – Woody	/ plants less tl	han 3 in. [	OBH and
9				greater than or equal t	o 3.28 ft (1 m	) tall.	
10	<u> </u>			Herb – All herbaceous	(non-woody)	plants, re	gardless of
11				size, and woody plants	less than 3.2	8 ft tall.	
12				Woody vines – All wood	dy vines great	ter than 3	.28 ft in
	90	= Total Cov	er	neight.			
Woody Vine Stratum (Plot size: <u>30 ft</u> )				Hydrophytic Vegetatio	n Present?	/es 🟒 N	lo
1	0						
2.							
3.							
4.							
	0	= Total Cov	er				
Remarks: (Include photo numbers here or on a separat	te sheet.)			_			

SOIL

# Sampling Point: W-BTF-01\_PEM-1

inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Text	ure	Remarks
0 - 7	10YR 3/1	95	10YR 5/6	5	С	M/PL	Silty Clay Loam		
7 - 20	10YR 4/1	75	10YR 5/6	25	С	M/PL	Cla	iy	
·		·		·					
						·			
								,	
·				·		·			
/pe: C = C	Concentration, D =	Deplet	tion, RM = Reduce	ed Ma	trix, MS =	- Masked	Sand Grains. <sup>2</sup> L	ocation: PL = Pore	Lining, M = Matrix.
dric Soil I	Indicators:							Indicators for Pi	roblematic Hydric Soils <sup>3</sup> :
_ Histe E _ Black Hit _ Hydroge _ Stratified _ Depleted _ Thick Da _ Sandy N	stic (A3) en Sulfide (A4) d Layers (A5) d Below Dark Surf ark Surface (A12) fucky Mineral (S1)	ace (A1	Loamy Muc Loamy Gley Depleted M 11). ✓ Redox Darł Depleted D Redox Dep	ky Mi ved M latrix Surfa ark Su ressio	neral (F1 atrix (F2) (F3) ace (F6) urface (F7) ons (F8)	7) (LRR K, L	)	Coast Prairie 5 cm Mucky Dark Surface Polyvalue Be Thin Dark Su Iron-Mangar Piedmont El	e Redox (A16) (LRR K, L, R) Peat or Peat (S3) (LRR K, L, R) e (S7) (LRR K, L) elow Surface (S8) (LRR K, L) urface (S9) (LRR K, L) nese Masses (F12) (LRR K, L, R)
_ Sandy G _ Sandy R _ Strippec _ Dark Su	ileyed Matrix (S4) edox (S5) d Matrix (S6) rface (S7) <b>(LRR R, N</b> of bydrophytic yes	ILRA 1	<b>49B)</b>	drolo	av must h	ne present	unless disturbe	Mesic Spodi Red Parent I Very Shallow Other (Expla	oodplain Soils (F19) <b>(MLRA 149B)</b> c (TA6) <b>(MLRA 144A, 145, 149B)</b> Material (F21) v Dark Surface (TF12) in in Remarks)
_ Sandy G _ Sandy R _ Stripped _ Dark Sundicators of estrictive L	ileyed Matrix (S4) edox (S5) d Matrix (S6) rface (S7) <b>(LRR R, N</b> <u>of hydrophytic veg</u> <b>.ayer (if observed)</b>	ILRA 1 setation	<b>49B)</b> n and wetland hy	drolo	gy must t	pe present	;, unless disturbe	Mesic Spodi Red Parent I Very Shallow Other (Expla d or problematic.	oodplain Soils (F19) <b>(MLRA 149B)</b> c (TA6) <b>(MLRA 144A, 145, 149B)</b> Material (F21) v Dark Surface (TF12) in in Remarks)
Sandy G Sandy R Stripped Dark Su ndicators d :strictive L	ileyed Matrix (S4) edox (S5) d Matrix (S6) rface (S7) <b>(LRR R, N</b> <u>of hydrophytic veg</u> <b>.ayer (if observed)</b> Type:	MLRA 1 <u>setation</u>	<b>49B)</b> n and wetland hy None	drolo	gy must t	be present	., unless disturbe pil Present?	Mesic Spodi Red Parent I Very Shallow Other (Expla d or problematic.	oodplain Soils (F19) <b>(MLRA 149B)</b> c (TA6) <b>(MLRA 144A, 145, 149B)</b> Material (F21) v Dark Surface (TF12) in in Remarks) Yes No
Sandy G Sandy R Strippec Dark Su ndicators d strictive L :marks:	ileyed Matrix (S4) edox (S5) d Matrix (S6) rface (S7) <b>(LRR R, N</b> <u>of hydrophytic veg</u> ayer (if observed) Type: Depth (inches):	MLRA 1 getation :	<b>49B)</b> n and wetland hy None	drolo;	gy must t	De present	; unless disturbe bil Present?	Mesic Spodi Red Parent I Very Shallov Other (Expla d or problematic.	oodplain Soils (F19) <b>(MLRA 149B)</b> c (TA6) <b>(MLRA 144A, 145, 149B)</b> Material (F21) v Dark Surface (TF12) iin in Remarks) Yes No

Hydrology Photos



Soil Photos

#### Photo of Sample Plot North



Photo of Sample Plot West

# WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Riversio	oject/Site:_Riverside Solar City/County:_Chaumont, Jefferson					Sampling Date: 2020-June-01				
Applicant/Owner:	Geronimo				State:	NY		Sampling Point:	W-BTF-01_UPL-1	
Investigator(s): Brenner Fahrenz, Bridgette Rooney, Ben Popham Section, Township, Range:										
Landform (hillslope,	terrace, etc.):	Hillslope		Local relie	ef (concave,	convex,	none):	Convex	Slope (%):	1 to 3
Subregion (LRR or M	LRA): LRR	R		La	t: 44.08241	06808	Long:	-76.0661774631	Datum: WO	<u>3</u> 584
Soil Map Unit Name:	GbBGaloo-	Rock outcrop com	plex, 0 to 8 perc	ent slopes	S			NWI classifi	cation:	
Are climatic/hydrolog	gic conditions o	n the site typical fo	or this time of ye	ar?	Yes 🟒	_ No	(If no	o, explain in Rema	arks.)	
Are Vegetation,	Soil,	or Hydrology	_ significantly dis	sturbed?	Are "N	lormal C	ircums	tances" present?	Yes 🟒 No _	
Are Vegetation,	Soil,	or Hydrology	_ naturally probl	ematic?	(If nee	ded, exp	plain ar	y answers in Rem	narks.)	

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

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

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

# VEGETATION -- Use scientific names of plants.

# Sampling Point: W-BTF-01\_UPL-1

Tree Stratum (Plot size: <u>30 ft</u> )	Absolute	Dominant	Indicator	Dominance Test works	sheet:		
1 Assures to many	% Cover	species:		Are OBL_FACW_or FAC	species mat	2	(A)
1. Acer saccharum		Yes	FACU	Total Number of Domi	 nant Snecies		
2. Fraxinus pennsylvanica	5	Yes	FACW	Across All Strata:	nune species	6	(B)
3				Percent of Dominant S	opecies That		
4				Are OBL, FACW, or FAC		33.3	(A/B)
5				Prevalence Index work	sheet:		
6				Total % Cover	<u>r of:</u>	Multiply I	<u>By:</u>
7				OBL species	0	x 1 =	0
	25	= Total Cov	er	FACW species	5	x 2 =	10
Sapling/Shrub Stratum (Plot size: <u>15 ft</u> )				FAC species	27	x 3 =	81
1. Zanthoxylum americanum	60	Yes	FACU	FACU species	140	x 4 =	560
2. <i>Lonicera japonica</i>	20	Yes	FACU	UPL species	12	x 5 =	60
3. Juniperus horizontalis	15	No	FACU	Column Totals	184	(A)	711 (B)
4				Prevalence I	ndex = B/A =	39	, (5)
5							
6				Hydrophylic Vegetalio	n indicators:	lagatation	
7				1- Rapid Test for		regetation	
	95	= Total Cov	er	2 - Dominance le	SUIS > 50%		
<u>Herb Stratum</u> (Plot size: <u>5 ft</u> )		_		3 - Prevalence Inc	dex IS ≤ 3.0'	(Duran internet	
1. Plantago lanceolata	25	Yes	FACU	4 - Morphologica	a constations	(Provide s	supporting
2. Euonymus americanus	15	Yes	FAC	Droblomatic Hyd	a separate si	tation1 (Ex	nlain)
3. Ranunculus acris	12	No	FAC	11ndicators of bydric se	nil and wotlan		piairi) Ny must bo
4. <i>Daucus carota</i>	12	No	UPL	nresent unless distur	ped or probler	natic	sy must be
5.				Definitions of Vegetati	on Strata:	indite	
6.				Tree – Woody plants 3	in (7.6 cm) or	more in c	liameter at
7.				breast height (DBH), re	egardless of h	eight.	
8.				Sapling/shrub - Wood	v plants less t	han 3 in. D	BH and
9.				greater than or equal	to 3.28 ft (1 m	) tall.	
10				Herb – All herbaceous	(non-woody)	plants, reg	ardless of
11				size, and woody plants	s less than 3.2	8 ft tall.	
12				Woody vines - All woo	dy vines great	er than 3.	28 ft in
12	64	- Total Cov	or	height.			
Woody Vino Stratum (Plot size: 20 ft )	04	- 10tai COV	CI	Hydrophytic Vegetatio	on Present?	/esN	0_
	0						
1							
2.							
3							
4							
	0	= Total Cov	er				
Remarks: (Include photo numbers here or on a separate	e sheet.)						

SOIL

# Sampling Point: W-BTF-01\_UPL-1

Denth Ma	scribe to the d	epth needed to do Redox	ocument the i	ndicator or coi	nfirm the absence of	of indicators.)
(inches) Color (m	oist) %	Color (moist)	% Type <sup>1</sup>		Texture	Remarks
0-9 10VR 5	<u>/6 100</u>		<u> // //pc</u>		Silt Loam	
	100				She Louin	
				<u> </u>		
				<u> </u>		·
				<u> </u>		·
				<u> </u>		
·				·		
				·		
				·		
				<u> </u>		
						·
<sup>1</sup> Type: C = Concentratio	on, D = Depletio	on, RM = Reduced	Matrix, MS =	Masked Sand (	Grains. <sup>2</sup> Location:	PL = Pore Lining, M = Matrix.
Hydric Soil Indicators:					Indica	tors for Problematic Hydric Soils <sup>3</sup> :
Histosol (A1)		Polyvalue Bel	ow Surface (S	8) <b>(LRR R, MLR</b>	<b>A 149B)</b> 2 c	m Muck (A10) <b>(LRR K, L, MLRA 149B)</b>
Histic Epipedon (A2	)	Thin Dark Sur	face (S9) <b>(LRR</b>	R, MLRA 149B	)Co	ast Prairie Redox (A16) <b>(LRR K, L, R)</b>
Black Histic (A3)	0	Loamy Mucky	/ Mineral (F1)	(LRR K, L)	5 c	m Mucky Peat or Peat (S3) <b>(LRR K, L, R)</b>
Hydrogen Sulfide (A	(4) - \	Loamy Gleyed			Da	rk Surface (S7) <b>(LRR K, L)</b>
Stratified Layers (As	) rk Surface (A11	Depieted Mat ) Redox Dark S	urface (E6)		Po	lyvalue Below Surface (S8) <b>(LRR K, L)</b>
Thick Dark Surface	(A12)	Depleted Dar	k Surface (F7)		Th	in Dark Surface (S9) <b>(LRR K, L)</b>
Sandy Mucky Miner	al (S1)	Redox Depres	ssions (F8)		Iro	n-Manganese Masses (F12) <b>(LRR K, L, R)</b>
Sandy Gleved Matri	x (S4)				Pie	edmont Floodplain Soils (F19) <b>(MLRA 149B)</b>
Sandy Redox (S5)					Me	esic Spodic (TA6) <b>(MLRA 144A, 145, 149B)</b>
Stripped Matrix (S6	)				Re	d Parent Material (F21)
Dark Surface (S7) (L	, RR R. MLRA 14	9B)			Ve	ry Shallow Dark Surface (TF12)
					0t	ner (Explain in Remarks)
<sup>3</sup> Indicators of hydrophy	/tic vegetation	and wetland hydr	ology must be	e present, unle	ss disturbed or pro	blematic.
Restrictive Layer (if obs	erved):	De due de				Vez Nez (
Type:		Bedrock		Hydric Soil Pr	esent?	Yes No
Depth (inch	es):	9				

Soil Photos



Photo of Sample Plot East Photo of Sample Plot South



Photo of Sample Plot West

# WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Riverside	e Solar		City/County: Cha	umont, Jeffe	rson		Sampling Date:	2020-June-01	
Applicant/Owner:	ieronimo				State: NY		Sampling Point: V	V-BTF-02_PEM-1	
Investigator(s): Bren	nner Fahrenz, l	Bridgette Rooney	, Ben Popham	Sect	ion, Township, Ra	nge:			
Landform (hillslope, te	errace, etc.):	Depression		Local relief	(concave, convex,	none):	Concave	Slope (%):	1 to 3
Subregion (LRR or MLF	RA): LRR	२		Lat:	44.0811021588	Long:	-76.0683043914	Datum:W	GS84
Soil Map Unit Name:	Gv-Guffin cla	у					NWI classifica	ation:	
Are climatic/hydrologic conditions on the site typical for this time of year? Yes 🖌 No (If no, explain in Remarks.)									
Are Vegetation 🟒,	Soil,	or Hydrology	significantly di	sturbed?	Are "Normal (	Circums	tances" present?	Yes No	_
Are Vegetation,	Soil,	or Hydrology	_ naturally prob	lematic?	(If needed, ex	plain an	y answers in Rema	arks.)	

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

Hydrophytic Vegetation Present?	Yes 🟒 No									
Hydric Soil Present?	Yes 🟒 No	Is the Sampled Area within a Wetland?	Yes 🟒 No _							
Wetland Hydrology Present?	Yes 🟒 No	If yes, optional Wetland Site ID:	W-BTF-02							
Remarks: (Explain alternative procedures he	Remarks: (Explain alternative procedures here or in a separate report)									
Covertype is PEM. Circumstances are not normal due to agricultural activities. Cattle grazing .										

Wetland Hydrology Indicators:				
Primary Indicators (minimum of o	ne is required; check all	Secondary Indicators (minimum of two required)		
Surface Water (A1) High Water Table (A2) _✔ Saturation (A3) Water Marks (B1) Sediment Deposits (B2)	Water Aquati Marl D Hydro Oxidiz	-Stained Leaves (B9) ic Fauna (B13) Deposits (B15) gen Sulfide Odor (C1) ed Rhizospheres on Living	g Roots (C3)	<ul> <li>Surface Soil Cracks (B6)</li> <li>Drainage Patterns (B10)</li> <li>Moss Trim Lines (B16)</li> <li>Dry-Season Water Table (C2)</li> <li>Crayfish Burrows (C8)</li> <li>Saturation Visible on Aerial Imagery (C9)</li> </ul>
<ul> <li>Drift Deposits (B3)</li> <li>Algal Mat or Crust (B4)</li> <li>Iron Deposits (B5)</li> <li>Inundation Visible on Aerial Im</li> <li>Sparsely Vegetated Concave Summer Summ</li></ul>	Preser Recen Thin M Jagery (B7) Other Jurface (B8)	nce of Reduced Iron (C4) t Iron Reduction in Tilled S Auck Surface (C7) (Explain in Remarks)	Goils (C6)	<ul> <li>Stunted or Stressed Plants (D1)</li> <li>Geomorphic Position (D2)</li> <li>Shallow Aquitard (D3)</li> <li>Microtopographic Relief (D4)</li> <li>FAC-Neutral Test (D5)</li> </ul>
Field Observations:				
Surface Water Present?	Yes No 🟒	Depth (inches):		
Water Table Present?	Yes No	Depth (inches):		Wetland Hydrology Present? Yes No
Saturation Present?	Yes 🟒 No	Depth (inches):	12	_
(includes capillary fringe)				
Describe Recorded Data (stream g	zauge, monitoring well, a	aerial photos, previous ins	pections), if	available:

VEGETATION -- Use scientific names of plants.

Sampling Point: W-BTF-02\_PEM-1

1.       0       Are OBL         2.	of Dominant Species That	1	(A)
3.       Across A         4.       Across A         5.       Percent:         6.       Prevalen         7.       0         8.       0         9.       Policities         1.       0         2.       0         3.       0         4.       Column 1         5.       0         6.       Prevalen         7.       0         7.       0         8.       0         9.       Pace Species         1.       0         2.       Column 1         4.	, FACW, or FAC: mber of Dominant Species	1	(D)
4.	ll Strata:	I	(B)
5.	of Dominant Species That	100	(A/B)
6.	ice Index worksheet:		
7.	Total % Cover of:	Multiply I	Bv:
0       = Total Cover       FACW spin         Sapling/Shrub Stratum (Plot size: _15 ft)       0       FACU spin         1       0       FACU spin         2	ies 90	x 1 =	90
Sapling/Shrub Stratum (Plot size: _15 ft)       0       FAC spec         1.       0       FAC uspec         2.       0       FAC uspec         3.       0       Column 1         4.       0       FAC uspec         5.       0       FAC uspec         6.       0       FAC uspec         7.       0       FAC uspec         6.       0       FAC uspec         7.       0       FAC uspec         8.       0       FAC uspec         9.       0       For uspect         10.       12       No         7.       0       FAC uspect         12.       No       FAC uspect         13.       Poa palustris       12       No         14.       Juncus effusus       5       No       OBL         9.       0       10       10       10       10         11.       102       = Total Cover       Herb - A         14.       0       102       = Total Cover         Woody Vine Stratum (Plot size: _30 ft)       102       = Total Cover         10.       102       = Total Cover       Height.	ecies 12	x 2 =	24
1.       0       FACU spector         2.	ies 0	x 3 =	0
2.	ecies 0	x 4 =	0
3.	ies 0	x 5 =	0
4.	Fotals 102	(A)	114 (B)
5.	Prevalence Index = B/A =	1.1	(5)
6.Image: Second systemHydropin7. $0$ = Total Cover $2$ $1.$ Scirpus atrovirens70YesOBL1.Scirpus atrovirens70YesOBL2.Carex vulpinoidea15NoOBL3.Poa palustris12NoFACW4.Juncus effusus5NoOBL5.SNoOBLpresent,6.Image: Second systemSapling/s9.Image: Second systemSapling/s9.Image: Second systemSapling/s10.Image: Second systemSapling/s11.Image: Second systemSapling/s12.Image: Second systemSapling/s10.Image: Second systemSapling/s11.Image: Second systemSapling/s12.Image: Second systemSapling/s13.Image: Second systemSapling/s14.Image: Second systemSapling/s15.Image: Second systemSapling/s16.Image: Second systemSapling/s17.Image: Second systemSapling/s18.Image: Second systemSapling/s19.Image: Second systemSapling/s10.Image: Second systemSapling/s10.Image: Second systemSapling/s10.Image: Second systemSapling/s10.Image: Second systemSapling/s11.Image: Second systemSapling/s12.			
7. $0$ = Total Cover $2$ $2$ Herb Stratum (Plot size: _5ft_) $0$ = Total Cover $2$ $2$ 1. Scirpus atrovirens       70       Yes       OBL $-4$ 2. Carex vulpinoidea       15       No       OBL $-4$ 3. Poa palustris       12       No       FACW       IIndicato         5. $-6$ $-7$ $-7$ $-7$ $-7$ 6. $-7$ $-7$ $-7$ $-7$ $-7$ $-7$ $-7$ 6. $-7$	yuc vegetation indicators:	lagatation	
0       = Total Cover	Capid Test for Hydrophylic V	vegetation	
Herb Stratum (Plot size: _5 ft)			
1. Scirpus atrovirens       70       Yes       OBL       data in R         2. Carex vulpinoidea       15       No       OBL       Prodematical Action of the second of	Prevalence index is $\leq 3.0^{\circ}$	1 (Duessieles	
2.       Carex vulpinoidea       15       No       OBL      Pro         3.       Poa palustris       12       No       FACW       Indicato         4.       Juncus effusus       5       No       OBL       present,         5.	Pemarks or on a senarate sl	(Provide s	supporting
3.       Poa palustris       12       No       FACW       Indicate present, pres	hlematic Hydronhytic Vege	etation <sup>1</sup> (Ex	nlain)
4. juncus effusus       5       No       OBL       present,         5.	ors of hydric soil and wetlar		y must he
5.	unless disturbed or proble	matic	sy must be
6.	ns of Vegetation Strata:		
7.	oody plants 3 in. (7.6 cm) o	r more in d	liameter at
8.	eight (DBH), regardless of h	eight.	
9.	shrub – Woody plants less t	han 3 in. D	BH and
10.	han or equal to 3.28 ft (1 m	n) tall.	
11.	ll herbaceous (non-woody)	plants, reg	ardless of
Woody Vine Stratum (Plot size: _30 ft)     0       1.     0       2.	woody plants less than 3.2	28 ft tall.	
Moody Vine Stratum (Plot size: _30 ft)     102     = Total Cover     height.       1.     0	<b>ines</b> – All woody vines grea	ter than 3.	28 ft in
Woody Vine Stratum (Plot size: _30 ft)         0         Hydropi           1.			
1.     0       2.	hytic Vegetation Present?	Yes 🟒 N	0
2			
3.			
4.			
4.			
0 = Total Cover			

SOIL

inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0 - 7	7.5YR 2.5/2	80	2.5YR 2.5/4	20	<u> </u>	M/PL 0	Clav Loam	
7 - 13	2.5Y 3/2	85	2.5Y 5/4	15			Clav	
13 - 20	10YR 3/2	70	10YR 5/4	30			Clay	
				—		<u> </u>		
				—		<u> </u>		
					·	·		
pe: C = C	Concentration, D =	Deple	tion, RM = Reduce	ed Ma	itrix, MS =	= Masked Sand Gra	ains. <sup>2</sup> Lo	cation: PL = Pore Lining, M = Matrix.
dric Soil I	Indicators:							Indicators for Problematic Hydric Soils <sup>3</sup> :
Histosol	(A1)		Polyvalue E	elow	Surface (	(S8) (LRR R, MLRA 1	149B)	2 cm Muck (A10) (LRR K, L, MLRA 149B)
Histic Ep	oipedon (A2)		Thin Dark S	urtac	e (S9) <b>(LR</b>	R R, MLRA 149B)		Coast Prairie Redox (A16) (LRR K, L, R)
Black Hi	Stic (A3)		Loamy Mud	KY M	ineral (F1	) (LRR K, L)		5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
Hydroge			Loarny Gley		atrix (FZ)			Dark Surface (S7) (LRR K, L)
_ Stratine	d Layers (A5) d Bolow Dark Surf		Depieted iv		(F3) 262 (E6)			Polyvalue Below Surface (S8) (LRR K, L)
Thick Da	u Below Dark Suri	ace (A	Deploted D	ork Si	urfaco (E	7)		Thin Dark Surface (S9) (LRR K, L)
Sandy M	fucky Mineral (S1)		Depleted D	ai k Si	unace (F2	/)		Iron-Manganese Masses (F12) (LRR K, L, R)
Sandy C	loved Matrix (S4)		Redox Dep	essic	JIIS (FO)			Piedmont Floodplain Soils (F19) (MLRA 149B)
_ sandy G	leyed Matrix (S4)							Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
_ Sandy R	edox (S5)							Red Parent Material (F21)
_ Stripped	d Matrix (S6)							Very Shallow Dark Surface (TF12)
			10P)					Other (Explain in Remarks)
_ Dark Su	rface (S7) <b>(LRR R, I</b>	VILKA I	490)					
_ Dark Su	rface (S7) <b>(LRR R, I</b> of hydrophytic ve <sub>ł</sub>	getatio	n and wetland hy	drolo	gy must l	be present, unless	disturbed	or problematic.
_ Dark Su dicators strictive l	rface (S7) <b>(LRR R, I</b> of hydrophytic veg <b>.ayer (if observed)</b>	getatio	n and wetland hy	drolo	gy must l	be present, unless	disturbed	or problematic.
Dark Su dicators strictive L	rface (S7) <b>(LRR R, I</b> of hydrophytic veş <b>.ayer (if observed)</b> Type:	getatio	n and wetland hy None	drolo	gy must l	be present, unless Hydric Soil Prese	disturbed	or problematic.
Dark Su dicators strictive L	rface (S7) <b>(LRR R, I</b> <u>of hydrophytic veş</u> <b>.ayer (if observed)</b> Type: Depth (inches):	getatio	n and wetland hy None	drolo	gy must l	be present, unless	disturbed nt?	or problematic. Yes _∠_ No

Vegetation Photos



Soil Photos

Photo of Sample Plot North



Photo of Sample Plot South

# WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Riverside Solar City/Count			//County: Chaumont,	Jefferson		Sampling Date:	2020-June-01
Applicant/Owner:	Geronimo			State: NY		Sampling Point:	W-BTF-02_UPL-1
Investigator(s): Bre	nner Fahrenz,	Bridgette Rooney, Be	en Popham	Section, Township, I	Range:		
Landform (hillslope, t	errace, etc.):	Terrace	Local r	elief (concave, conve	ex, none):	Convex	Slope (%): 2 to 5
Subregion (LRR or ML	.RA): LRR	R		Lat: 44.0809790601	Long:	-76.0684762938	Datum: WGS84
Soil Map Unit Name:	WnBWilpo	int silty clay loam, 3	to 8 percent slopes			NWI classific	ation:
Are climatic/hydrologic conditions on the site typical for this time of year? Yes 🖌 No (If no, explain in Remarks.)							
Are Vegetation 🟒,	Soil,	or Hydrology	significantly disturbed	? Are "Norma	l Circums	tances" present?	Yes No 🟒
Are Vegetation,	Soil,	or Hydrology	naturally problematic	? (If needed, e	explain ar	ny answers in Rem	arks.)

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

Hydrophytic Vegetation Present?	Yes No 🟒		
Hydric Soil Present?	Yes 🟒 No	Is the Sampled Area within a Wetland?	Yes No 🟒
Wetland Hydrology Present?	Yes No _	lf yes, optional Wetland Site ID:	
Remarks: (Explain alternative procedures he	re or in a separate report)		
Covertype is UPL. Circumstances are not nor	mal due to agricultural ac	tivities. Cattle grazing.	

Wetland Hydrology Indicators:				
Primary Indicators (minimum of on	e is required; check all t	Secondary Indicators (minimum of two required)		
<ul> <li>Surface Water (A1)</li> <li>High Water Table (A2)</li> <li>Saturation (A3)</li> <li>Water Marks (B1)</li> <li>Sediment Deposits (B2)</li> <li>Drift Deposits (B3)</li> <li>Algal Mat or Crust (B4)</li> <li>Iron Deposits (B5)</li> <li>Inundation Visible on Aerial Imaging Sparsely Vergetated Concave Sur</li> </ul>	Water-t Aquatio Marl Du Hydrog Oxidize Presen Recent Thin M gery (B7) Other (	Stained Leaves (B9) : Fauna (B13) eposits (B15) gen Sulfide Odor (C1) ed Rhizospheres on Living Roots (C3) ce of Reduced Iron (C4) Iron Reduction in Tilled Soils (C6) uck Surface (C7) Explain in Remarks)	<ul> <li>Surface Soil Cracks (B6)</li> <li>Drainage Patterns (B10)</li> <li>Moss Trim Lines (B16)</li> <li>Dry-Season Water Table (C2)</li> <li>Crayfish Burrows (C8)</li> <li>Saturation Visible on Aerial Im</li> <li>Stunted or Stressed Plants (D</li> <li>Geomorphic Position (D2)</li> <li>Shallow Aquitard (D3)</li> <li>EAC Neutral Test (D5)</li> </ul>	nagery (C9) 1)
Field Observations:				
Surface Water Present?	Yes No 🟒	Depth (inches):		
Water Table Present?	Yes No 🟒	Depth (inches):	Wetland Hydrology Present?	Yes No 🟒
Saturation Present?	Yes No 🟒	Depth (inches):		
(includes capillary fringe)				
Describe Recorded Data (stream ga	auge, monitoring well, a	erial photos, previous inspections), if	f available:	
Sampling Point: W-BTF-02\_UPL-1

Tree Stratum (Plot size: <u>30 ft</u> )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test works	s <b>heet:</b> Species That	0	(A)		
1.	0			Are OBL, FACW, or FAC			() ()		
2.				Total Number of Domi	nant Species	2	(B)		
3				- Percent of Dominant S	inecies That				
4				Are OBL, FACW, or FAC		0	(A/B)		
5				<ul> <li>Prevalence Index work</li> </ul>	sheet:				
o		<u> </u>		- <u>Total % Cover</u>	<u>of:</u>	<u>Multiply</u>	<u>/ By:</u>		
7				– OBL species	0	x 1 =	0		
	0	= lotal Cov	er	FACW species	0	x 2 =	0		
Sapling/Shrub Stratum (Plot size:15 ft)	0			FAC species	8	x 3 =	24		
1	0			– FACU species	77	x 4 =	308		
2.				– UPL species	5	x 5 =	25		
3.				– Column Totals	90	(A)	357 (B)		
4				Prevalence l	ndex = B/A =	4			
5				- Hydrophytic Vegetatio	n Indicators:		·		
6				- 1- Rapid Test for	Hvdrophytic \	/egetatio	n		
7				2 - Dominance Te	est is > 50%	0			
	0	= Total Cov	rer	3 - Prevalence Inc	dex is $\leq 3.0^1$				
<u>Herb Stratum</u> (Plot size: <u>5 ft</u> )				4 - Morphologica	Adaptations	<sup>1</sup> (Provide	supporting		
1. <i>Festuca rubra</i>	45	Yes	FACU	- data in Remarks or on	a separate sh	neet)	0		
2. Trifolium repens	15	Yes	FACU	Problematic Hyd	rophytic Vege	tation <sup>1</sup> (E	xplain)		
3. <i>Taraxacum officinale</i>	12	No	FACU	- <sup>1</sup> Indicators of hydric so	oil and wetlan	and hydrology must be			
4. <i>Ranunculus acris</i>	8	No	FAC	present, unless distur	present, unless disturbed or problematic				
5. <i>Phleum pratense</i>	5	No	FACU	_ Definitions of Vegetati	on Strata:				
6. <i>Daucus carota</i>	5	No	UPL	_ Tree – Woody plants 3	in. (7.6 cm) o	r more in	diameter at		
7				breast height (DBH), re	egardless of h	eight.			
8				Sapling/shrub - Wood	y plants less t	han 3 in.	DBH and		
9				greater than or equal t	to 3.28 ft (1 m	ı) tall.			
10				Herb – All herbaceous	(non-woody)	plants, re	egardless of		
11				size, and woody plants	less than 3.2	8 ft tall.			
12				Woody vines – All woo	dy vines grea	ter than 3	3.28 ft in		
	90	= Total Cov	ver	neight.					
Woody Vine Stratum (Plot size: <u>30 ft</u> )				Hydrophytic Vegetatio	on Present?	Yes	No 🟒		
1.	0								
2.				-					
3.				-					
4.				-					
	0	= Total Cov	er	-					
Remarks. Unclude photo numbers here of on a sep	arate Sheet.)								

SOIL

## Sampling Point: W-BTF-02\_UPL-1

nches)	Matrix		Redox	Feat	ures		commune an	serve of maleucors.
0 - 8	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Textu	Ire Remarks
0 0	10YR 3/6	100					Clay L	bam
8 - 20	10YR 4/2	98	10YR 7/3	2	С	М	Silty Clay	Loam
/pe: C = C	oncentration, D = I	Depletio	n, RM = Reduced	Mati	rix, MS =	Masked Sar	nd Grains. <sup>2</sup> Lo	ocation: PL = Pore Lining, M = Matrix.
dric Soil I	ndicators:							Indicators for Problematic Hydric Soils <sup>3</sup> :
_ Histosol	(A1)		Polyvalue Be	low S	urface (S	8) (LRR R, N	ILRA 149B)	2 cm Muck (A10) (LRR K, L, MLRA 149B)
- HISUC EP	ipedon (AZ)		I nin Dark Su	riace v Min	(59) (LKK	. K, MILKA 14 (I DD K I )	19B)	Coast Prairie Redox (A16) <b>(LRR K, L, R)</b>
	n Sulfide (A4)		Loamy Gleve	d Ma	trix (F2)			5 cm Mucky Peat or Peat (S3) <b>(LRR K, L, R)</b>
Stratified	Lavers (A5)		✓ Depleted Ma	trix (F	=3)			Dark Surface (S7) (LRR K, L)
_ _ Depletec	Below Dark Surfa	ice (A11)	 ) Redox Dark S	Surfac	ce (F6)			Polyvalue Below Surface (S8) (LRR K, L)
Thick Da	rk Surface (A12)		Depleted Dar	'k Sui	face (F7)			ININ Dark Surface (S9) (LRR K, L)
_ Sandy M	ucky Mineral (S1)		Redox Depre	ssior	is (F8)			IFON-Manganese Masses (FT2) (LRR K, L, K) Piedmont Eleodolain Soils (E10) (MI DA 149)
_ Sandy G	leyed Matrix (S4)							Mesic Spodic (TA6) (MI RA 144A 145 149B)
_ Sandy Re	edox (S5)							Red Parent Material (F21)
_ Stripped	Matrix (S6)							Very Shallow Dark Surface (TF12)
_ Dark Sur	face (S7) <b>(LRR R, N</b>	ILRA 149	9B)					Other (Explain in Remarks)
dicators o	of hydrophytic veg	etation a	and wetland hydr	olog	/ must be	e present, u	nless disturbe	d or problematic.
strictive L	ayer (if observed):					İ		· · · ·
-	Type:		None			Hydric Soi	Present?	Yes 🟒 No
1	Depth (inches):			-				
marks:								

#### Soil Photos



Photo of Sample Plot South Photo of Sample Plot West



## WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Riversid	e Solar	City/Cou	unty: Chaumont, J	efferson		Sampling Date:	2020-June-01
Applicant/Owner:	Geronimo			State:	NY	Sampling Point:	W-BTF-03_PEM-1
Investigator(s): Bre	nner Fahrenz,	Bridgette Rooney, Ben Po	opham	Section, Towns	hip, Range:		
Landform (hillslope, t	errace, etc.):	Depression	Local re	elief (concave, o	convex, none)	Concave	Slope (%): 0 to 1
Subregion (LRR or ML	RA): LRR	R	l	at: 44.081129	6519 Long	-76.0667924566	Datum: WGS84
Soil Map Unit Name:	GbBGaloo-	Rock outcrop complex, 0	) to 8 percent slop	es		NWI classific	ation:
Are climatic/hydrolog	ic conditions o	n the site typical for this	time of year?	Yes 🟒	No (If n	o, explain in Rema	rks.)
Are Vegetation 🟒,	Soil 🟒,	or Hydrology signit	ficantly disturbed	? Are "No	ormal Circum	stances" present?	Yes No 🟒
Are Vegetation,	Soil,	or Hydrology natu	rally problematic?	(If need	ded, explain a	ny answers in Rem	arks.)

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

Hydrophytic Vegetation Present?	Yes No		
Hydric Soil Present?	Yes 🟒 No	Is the Sampled Area within a Wetland?	Yes 🯒 No
Wetland Hydrology Present?	Yes 🟒 No	lf yes, optional Wetland Site ID:	W-BTF-03
Remarks: (Explain alternative procedures he	re or in a separate report		
Covertype is PEM. Circumstances are not no	rmal due to agricultural a	ctivities. Cattle grazing.	

#### HYDROLOGY

Wetland Hydrology Indicators:				
Primary Indicators (minimum o	f one is required; check all	<u>that apply)</u>		Secondary Indicators (minimum of two required)
<ul> <li> Surface Water (A1)</li> <li> High Water Table (A2)</li> <li> Saturation (A3)</li> <li> Water Marks (B1)</li> <li> Sediment Deposits (B2)</li> </ul>	Water- Aquati Marl D Hydro Oxidiz	-Stained Leaves (B9) ic Fauna (B13) Deposits (B15) gen Sulfide Odor (C1) ed Rhizospheres on Living	g Roots (C3)	<ul> <li> Surface Soil Cracks (B6)</li> <li> Drainage Patterns (B10)</li> <li> Moss Trim Lines (B16)</li> <li> Dry-Season Water Table (C2)</li> <li> Crayfish Burrows (C8)</li> <li> Saturation Visible on Aerial Imagery (C9)</li> </ul>
<ul> <li>Drift Deposits (B3)</li> <li>Algal Mat or Crust (B4)</li> <li>Iron Deposits (B5)</li> <li>Inundation Visible on Aerial</li> <li>Sparsely Vegetated Concave</li> </ul>	Preser Recen Thin M Imagery (B7) Other e Surface (B8)	nce of Reduced Iron (C4) t Iron Reduction in Tilled S Auck Surface (C7) (Explain in Remarks)	Soils (C6)	<ul> <li> Stunted or Stressed Plants (D1)</li> <li> Geomorphic Position (D2)</li> <li> Shallow Aquitard (D3)</li> <li> Microtopographic Relief (D4)</li> <li> FAC-Neutral Test (D5)</li> </ul>
Field Observations:				
Surface Water Present?	Yes No 🟒	Depth (inches):		
Water Table Present?	Yes No 🟒	Depth (inches):		Wetland Hydrology Present? Yes 🟒 No
Saturation Present?	Yes 🟒 No	Depth (inches):	8	
(includes capillary fringe)				
Describe Recorded Data (strea	m gauge, monitoring well, a	ierial photos, previous ins	pections), if	available:

# Remarks:

Hydrology appears to drain into exposed bedrock fissures on the northern side of the resource.

Sampling Point: W-BTF-03\_PEM-1

Tree Stratum (Plot size: <u>30 ft</u> )	Absolute % Cover	Dominant	Indicator Status	Dominance Test workshe	et: ecies That		
1	0	Species.	Status	Are OBL, FACW, or FAC:		4	(A)
1	0			Total Number of Domina	nt Species		
2.				Across All Strata:	[	5	(B)
3				Percent of Dominant Spe	cies That	80	(A /P)
4				Are OBL, FACW, or FAC:			(A/ D)
6				<ul> <li>Prevalence Index worksh</li> </ul>	eet:		
0				- <u>Total % Cover of</u>	<u>:</u>	<u>Multiply</u>	<u>By:</u>
7		Tabal Car		- OBL species	45	x 1 =	45
	0	= lotal Cov	/er	FACW species	30	x 2 =	60
Sapling/Shrub Stratum (Plot size:15 ft)				FAC species	5	x 3 =	15
1. Spiraea alba	15	Yes	FACW	- FACU species	0	x 4 =	0
2. <i>Frangula alnus</i>	5	Yes	FAC	- UPL species	0	x 5 =	0
3				- Column Totals	80	(A)	120 (B)
4				- Prevalence Inde	ex = B/A =	1.5	. ,
5					ndicators		
6				1- Rapid Test for Hy	dronhytic V	agetation	h
7		. <u> </u>		- C 2 Dominance Test		egetation	I
	20	= Total Cov	/er	2 - Dominance rest	is - 3.0%		
<u>Herb Stratum</u> (Plot size: <u>5 ft</u> )				3 - Prevalence index	$d_{antations^1}$	(Drovida	cupporting
1. <i>Carex vulpinoidea</i>	45	Yes	OBL	4 - Morphological Ad	uapialions'		supporting
2. Poa palustris	15	Yes	FACW	Problematic Hydron	hytic Veget	tation <sup>1</sup> (E)	(nlain)
3. Carex sp.	15	Yes	NI	Indicators of hydric soil a	and wetland	d hydrolo	ov must he
4.				present, unless disturbed	d or probler	natic	gy must be
5.				Definitions of Vegetation	Strata:		
6.				Tree – Woody plants 3 in.	(7.6 cm) or	more in	diameter at
7.				breast height (DBH), rega	rdless of he	eight.	
8.				- Sapling/shrub - Woody p	lants less th	han 3 in. I	OBH and
9				greater than or equal to 3	3.28 ft (1 m)	) tall.	
10				Herb – All herbaceous (no	on-woody) (	plants, re	gardless of
11				size, and woody plants le	ss than 3.2	8 ft tall.	0
12		<u> </u>		Woody vines – All woody	vines great	er than 3	.28 ft in
12	75	- Total Cov		height.			
Woody Vino Stratum (Plot size: 20 ft )	/5			Hydrophytic Vegetation I	Present? Y	∕es_✔ N	No
woody vine stratum (Plot size. <u>50 lt</u> )	0						
1				-			
2.				-			
3				-			
4				-			
	0	= Total Cov	ver				
Remarks: (Include photo numbers here or on a sepa	rate sheet.)						

SOIL

## Sampling Point: W-BTF-03\_PEM-1

nches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Text	ure	Remarks
0 - 8	10YR 3/2	95	10YR 4/4	5	С	M/PL	Silty Cla	y Loam	
8 - 20	10YR 3/2	80	10YR 4/4	20	С	М	Cla	ау	
				: <u> </u>					
		- —		_					
pe: C = C dric Soil	Concentration, D =	Deplet	tion, RM = Reduce	ed Ma	trix, MS =	= Masked Sa	nd Grains. <sup>2</sup> L	ocation: PL = Pore	Lining, M = Matrix.
Histoso	l (A1)		Polyvalue E	Below	Surface (	58) <b>(LRR R,</b> I	MLRA 149B)	2 cm Muck (A	
Histic Ep	oipedon (A2)		Thin Dark S	ourfac	e (S9) <b>(LR</b>	R R, MLRA 1	49B)	Coast Prairie	Redox (A16) <b>(LRR K, L, R)</b>
Hvdrog	en Sulfide (A4)			.ky ivii /ed M	atrix (F2)	) (LKK K, L)		5 cm Mucky I	Peat or Peat (S3) <b>(LRR K, L, R)</b>
Stratifie	d Layers (A5)		Depleted N	latrix	(F3)			Dark Surface	(S7) (LRR K, L)
Deplete	d Below Dark Surf	ace (A1	l1) Redox Darl	c Surf	ace (F6)			Polyvalue Be	rface (SQ) (LKK K, L)
Thick Da	ark Surface (A12)		Depleted D	ark Sı	urface (F7	7)		Inin Dark Su	
Sandy N	/lucky Mineral (S1)		Redox Dep	ressic	ons (F8)			Piedmont Flo	odplain Soils (F19) (MI RA 149B)
Januy N	, ,							I ICALITOTIC LIC	
_ Sandy K	Gleyed Matrix (S4)							Mesic Spodic	(TA6) (MLRA 144A, 145, 149B)
_ Sandy R _ Sandy C _ Sandy R	Gleyed Matrix (S4) Redox (S5)							Mesic Spodic	: (TA6) <b>(MLRA 144A, 145, 149B)</b> /aterial (E21)
_ Sandy K _ Sandy C _ Sandy F _ Stripped	Gleyed Matrix (S4) Redox (S5) d Matrix (S6)							Mesic Spodic Red Parent M Very Shallow	(TA6) <b>(MLRA 144A, 145, 149B)</b> Iaterial (F21) Dark Surface (TF12)
_ Sandy K _ Sandy C _ Sandy F _ Stripped _ Dark Su	Gleyed Matrix (S4) Redox (S5) d Matrix (S6) Irface (S7) <b>(LRR R, I</b>	MLRA 1	49B)					Mesic Spodic Red Parent M Very Shallow Other (Explai	(TA6) <b>(MLRA 144A, 145, 149B)</b> laterial (F21) Dark Surface (TF12) n in Remarks)
_ Sandy K _ Sandy C _ Sandy F _ Stripped _ Dark Su dicators	Gleyed Matrix (S4) Redox (S5) d Matrix (S6) Irface (S7) <b>(LRR R, I</b> of hydrophytic veg	MLRA 1	<b>49B)</b> n and wetland hy	drolo	gy must l	oe present,	unless disturbe	Mesic Spodic Red Parent M Very Shallow Other (Explai ed or problematic.	(TA6) <b>(MLRA 144A, 145, 149B)</b> laterial (F21) Dark Surface (TF12) n in Remarks)
_ Sandy K _ Sandy C _ Sandy F _ Stripped _ Dark Su dicators strictive I	Gleyed Matrix (S4) Redox (S5) d Matrix (S6) Irface (S7) <b>(LRR R, I</b> of hydrophytic veg <b>Layer (if observed)</b>	<b>VLRA 1</b> <u>getatio</u> ा :	<b>49B)</b> n and wetland hy	drolo;	gy must t	pe present,	unless disturbe	Mesic Spodic Red Parent M Very Shallow Other (Explai	(TA6) <b>(MLRA 144A, 145, 149B)</b> Iaterial (F21) Dark Surface (TF12) n in Remarks)
_ Sandy R _ Sandy R _ Stripped _ Dark Su dicators strictive l	Gleyed Matrix (S4) Redox (S5) d Matrix (S6) Irface (S7) <b>(LRR R, I</b> of hydrophytic veg <b>Layer (if observed)</b> Type:	MLRA 1 getation I:	<b>49B)</b> n and wetland hy None	drolo	gy must t	be present, i	unless disturbe Present?	Mesic Spodic Red Parent M Very Shallow Other (Explai ed or problematic.	(TA6) <b>(MLRA 144A, 145, 149B)</b> Iaterial (F21) Dark Surface (TF12) n in Remarks) /es∕ No
_Sandy R _Sandy R _Stripped _Dark Su dicators strictive I	Sleyed Matrix (S4) Redox (S5) d Matrix (S6) Irface (S7) <b>(LRR R, I</b> of hydrophytic veg Layer (if observed) Type: Depth (inches):	MLRA 1 getation	<b>49B)</b> n and wetland hy None	drolo	gy must t	pe present, Hydric Soi	unless disturbe Present?	Mesic Spodic Red Parent M Very Shallow Other (Explai ed or problematic.	(TA6) <b>(MLRA 144A, 145, 149B)</b> Iaterial (F21) Dark Surface (TF12) n in Remarks) /es No
_Sandy R _Sandy F _Stripped _Dark Su dicators strictive I marks:	Gleyed Matrix (S4) Redox (S5) d Matrix (S6) Irface (S7) <b>(LRR R, I</b> of hydrophytic veg Layer (if observed) Type: Depth (inches):	MLRA 1 getation I:	<b>49B)</b> n and wetland hy None	drolo;	gy must t	pe present, i Hydric Soi	unless disturbe Present?	Mesic Spodic Red Parent M Very Shallow Other (Explai ed or problematic.	(TA6) (MLRA 144A, 145, 149B) Material (F21) Dark Surface (TF12) n in Remarks) /es No
Sandy K Sandy F Stripped Dark Su <u>dicators</u> ttrictive I narks:	Gleyed Matrix (S4) Redox (S5) d Matrix (S6) Irface (S7) <b>(LRR R, I</b> of hydrophytic veg Layer (if observed) Type: Depth (inches):	MLRA 1 getatiou I:	<b>49B)</b> n and wetland hy None	drolo; -	gy must t	be present, i Hydric Soi	unless disturbe Present?	Mesic Spodic Red Parent M Very Shallow Other (Explai ed or problematic.	(TA6) (MLRA 144A, 145, 149B) Material (F21) Dark Surface (TF12) n in Remarks) /es No
Sandy C Sandy F Stripped Dark Su dicators strictive I narks:	Gleyed Matrix (S4) Redox (S5) d Matrix (S6) Irface (S7) <b>(LRR R, I</b> of hydrophytic veg Layer (if observed) Type: Depth (inches):	MLRA 1 getatioi I:	<b>49B)</b> n and wetland hy None	drolo; -	gy must t	be present, i	unless disturbe Present?	Mesic Spodic Red Parent M Very Shallow Other (Explai ed or problematic.	(TA6) <b>(MLRA 144A, 145, 149B)</b> Iaterial (F21) Dark Surface (TF12) n in Remarks) //es No
Sandy C Sandy F Stripped Dark Su dicators trictive I narks:	Gleyed Matrix (S4) Redox (S5) d Matrix (S6) Irface (S7) <b>(LRR R, I</b> of hydrophytic veg Layer (if observed) Type: Depth (inches):	MLRA 1 getatioi y:	<b>49B)</b> n and wetland hy None	drolo; -	gy must t	be present, i Hydric Soi	unless disturbe Present?	Mesic Spodic Red Parent N Very Shallow Other (Explai ed or problematic.	(TA6) (MLRA 144A, 145, 149B) Iaterial (F21) Dark Surface (TF12) n in Remarks) //es No
Sandy C Sandy F Stripped Dark Su dicators trictive I	Gleyed Matrix (S4) Redox (S5) d Matrix (S6) Irface (S7) <b>(LRR R, I</b> of hydrophytic veg Layer (if observed) Type: Depth (inches):	MLRA 1 getatioi ): 	<b>49B)</b> n and wetland hy None	drolo; -	gy must t	be present, i	unless disturbe Present?	Mesic Spodic Red Parent N Very Shallow Other (Explai ed or problematic.	(TA6) (MLRA 144A, 145, 149B) Material (F21) Dark Surface (TF12) n in Remarks) //es/ No
Sandy C Sandy F Stripped Dark Su dicators trictive I	Gleyed Matrix (S4) Redox (S5) d Matrix (S6) Irface (S7) <b>(LRR R, I</b> <u>of hydrophytic veş</u> <b>Layer (if observed)</b> Type: Depth (inches):	MLRA 1 getatioi ): 	<b>49B)</b> n and wetland hy None	drolo,	gy must t	be present, i Hydric Soi	unless disturbe Present?	Mesic Spodic Red Parent N Very Shallow Other (Explai ed or problematic.	(TA6) (MLRA 144A, 145, 149B) Material (F21) Dark Surface (TF12) n in Remarks) /es/No
Sandy C Sandy F Stripped Dark Su dicators strictive I	Gleyed Matrix (S4) Redox (S5) d Matrix (S6) Irface (S7) <b>(LRR R, I</b> <u>of hydrophytic veş</u> <b>Layer (if observed)</b> Type: Depth (inches):	MLRA 1 getatioi .: 	<b>49B)</b> n and wetland hy None	drolo; -	gy must t	be present, i Hydric Soi	unless disturbe	Mesic Spodic Red Parent N Very Shallow Other (Explai ed or problematic.	(TA6) (MLRA 144A, 145, 149B) Material (F21) Dark Surface (TF12) n in Remarks) /es No
Sandy C Sandy F Stripped Dark Su dicators strictive I	Gleyed Matrix (S4) Redox (S5) d Matrix (S6) Irface (S7) <b>(LRR R, I</b> <u>of hydrophytic veg</u> Layer (if observed) Type: Depth (inches):	MLRA 1 getatioi ): 	<b>49B)</b> n and wetland hy None	drolo,	gy must t	be present, i Hydric Soi	unless disturbe	Mesic Spodic Red Parent N Very Shallow Other (Explai ed or problematic.	(TA6) (MLRA 144A, 145, 149B) Material (F21) Dark Surface (TF12) n in Remarks) /es No
Sandy C Sandy F Stripped Dark Su dicators strictive I	Gleyed Matrix (S4) Redox (S5) d Matrix (S6) Irface (S7) <b>(LRR R, I</b> <u>of hydrophytic veg</u> Layer (if observed) Type: Depth (inches):	MLRA 1 getatioi ): 	<b>49B)</b> n and wetland hy None	drolo,	gy must t	be present, i Hydric Soi	unless disturbe	Mesic Spodic Red Parent N Very Shallow Other (Explai ed or problematic.	(TA6) (MLRA 144A, 145, 149B) /aterial (F21) Dark Surface (TF12) n in Remarks) /es No
Sandy C Sandy F Stripped Dark Su dicators strictive I	Gleyed Matrix (S4) Redox (S5) d Matrix (S6) Irface (S7) <b>(LRR R, I</b> of hydrophytic veg Layer (if observed) Type: Depth (inches):	MLRA 1 getatio .:	<b>49B)</b> n and wetland hy None	drolo	gy must t	be present, Hydric Soi	unless disturbe	Mesic Spodic Red Parent N Very Shallow Other (Explai ed or problematic.	<pre>(TA6) (MLRA 144A, 145, 149B) /aterial (F21) Dark Surface (TF12) n in Remarks) //es/_ No</pre>
Sandy C Sandy F Stripped Dark Su dicators strictive I	Sleyed Matrix (S4) Redox (S5) d Matrix (S6) Irface (S7) <b>(LRR R, I</b> of hydrophytic vea Layer (if observed) Type: Depth (inches):	MLRA 1 getatio 	<b>49B)</b> n and wetland hy None	drolo,	gy must t	be present, i	unless disturbe	Mesic Spodic Red Parent N Very Shallow Other (Explai ed or problematic.	<pre>(TA6) (MLRA 144A, 145, 149B) /aterial (F21) Dark Surface (TF12) n in Remarks) //es/_ No</pre>
Sandy C Sandy F Stripped Dark Su dicators strictive	Sleyed Matrix (S4) Redox (S5) d Matrix (S6) Irface (S7) <b>(LRR R, I</b> of hydrophytic vea Layer (if observed) Type: Depth (inches):	MLRA 1 getatio 	<b>49B)</b> n and wetland hy None	drolo,	gy must t	be present, i Hydric Soi	unless disturbe	Mesic Spodic Red Parent N Very Shallow Other (Explai ed or problematic.	<pre>// (TA6) (MLRA 144A, 145, 149B) // aterial (F21) Dark Surface (TF12) n in Remarks) // es No</pre>
_ Sandy C _ Sandy F _ Stripped _ Dark Su dicators strictive I	Sleyed Matrix (S4) Redox (S5) d Matrix (S6) Irface (S7) <b>(LRR R, I</b> of hydrophytic veş <b>Layer (if observed)</b> Type: Depth (inches):	MLRA 1 getatio 	<b>49B)</b> n and wetland hy None	drolo,	gy must t	be present, i Hydric Soi	unless disturbe	Mesic Spodic Red Parent N Very Shallow Other (Explai ed or problematic.	(TA6) (MLRA 144A, 145, 149B) Material (F21) Dark Surface (TF12) n in Remarks) //es No
_ Sandy ( _ Sandy F _ Stripped _ Dark Su dicators strictive   marks:	Sleyed Matrix (S4) Redox (S5) d Matrix (S6) Irface (S7) <b>(LRR R, I</b> of hydrophytic veg Layer (if observed) Type: Depth (inches):	MLRA 1 getatio ):	<b>49B)</b> n and wetland hy None	drolo,	gy must t	be present, i Hydric Soi	unless disturbe	Mesic Spodic Red Parent M Very Shallow Other (Explai ed or problematic.	(TA6) (MLRA 144A, 145, 149B) Material (F21) Dark Surface (TF12) n in Remarks) //es No
Sandy C Sandy F Stripped Dark Su dicators strictive I  marks:	Sleyed Matrix (S4) Redox (S5) d Matrix (S6) Irface (S7) <b>(LRR R, I</b> of hydrophytic veg Layer (if observed) Type: Depth (inches):	MLRA 1 getatio 	<b>49B)</b> n and wetland hy None	drolo,	gy must b	be present, i	unless disturbe	Mesic Spodic Red Parent N Very Shallow Other (Explai ed or problematic.	(TA6) (MLRA 144A, 145, 149B) Aaterial (F21) Dark Surface (TF12) n in Remarks) //es No
_ Sandy C _ Sandy F _ Stripped _ Dark Su dicators strictive I	Sleyed Matrix (S4) Redox (S5) d Matrix (S6) Irface (S7) <b>(LRR R, I</b> of hydrophytic veg Layer (if observed) Type: Depth (inches):	MLRA 1 getatio ):	<b>49B)</b> n and wetland hy None	drolo,	gy must b	be present, i	unless disturbe	Mesic Spodic Red Parent N Very Shallow Other (Explai ed or problematic.	(TA6) (MLRA 144A, 145, 149B) Aaterial (F21) Dark Surface (TF12) n in Remarks) //es No
_ Sandy C _ Sandy F _ Stripped _ Dark Su dicators strictive I	Sleyed Matrix (S4) Redox (S5) d Matrix (S6) Irface (S7) <b>(LRR R, I</b> of hydrophytic veg Layer (if observed) Type: Depth (inches):	MLRA 1 getatio	<b>49B)</b> n and wetland hy None	drolo,	gy must t	be present, i	unless disturbe	Mesic Spodic Red Parent M Very Shallow Other (Explai ed or problematic.	(TA6) (MLRA 144A, 145, 149B) Aaterial (F21) Dark Surface (TF12) n in Remarks) //es _∠_ No
Sandy C Sandy F Stripped Dark Su dicators trictive I	Sleyed Matrix (S4) Redox (S5) d Matrix (S6) Irface (S7) <b>(LRR R, I</b> of hydrophytic veg Layer (if observed) Type: Depth (inches):	MLRA 1 getation ):	<b>49B)</b> n and wetland hy None	drolo,	gy must t	be present, i	unless disturbe	Mesic Spodic Red Parent M Very Shallow Other (Explained or problematic.	(TA6) (MLRA 144A, 145, 149B) Aaterial (F21) Dark Surface (TF12) n in Remarks) //es _∠_ No

Soil Photos



Photo of Sample Plot North Photo of Sample Plot South



# WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Riversio	le Solar	City	//County: Chaumont	, Jefferson			Sampling Date:	2020-June-01	
Applicant/Owner:	Geronimo			State:	NY		Sampling Point: \	W-BTF-03_UPL-1	
Investigator(s): Bre	enner Fahrenz,	Bridgette Rooney, B	en Popham	Section, Towns	hip, Rang	ge:			
Landform (hillslope, t	errace, etc.):	Terrace	Local	relief (concave, o	convex, n	one):	Convex	Slope (%): 2 to	5
Subregion (LRR or MI	.RA): LRR	R		Lat: 44.081177	73245 <b>I</b>	Long:	-76.0666355465	Datum: WGS84	
Soil Map Unit Name:	KgAKingsb	ury silty clay, 0 to 2	percent slopes				NWI classific	cation:	
Are climatic/hydrolog	ic conditions o	n the site typical for	this time of year?	Yes 🟒	_ No	_ (If no	, explain in Rema	rks.)	
Are Vegetation 🟒,	Soil,	or Hydrology	significantly disturbed	d? Are "No	ormal Cir	cumst	ances" present?	Yes No 🟒	
Are Vegetation,	Soil,	or Hydrology	naturally problematio	? (If need	ded, expla	ain ang	answers in Rema	arks.)	

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

Hydrophytic Vegetation Present?	Yes No 🟒		
Hydric Soil Present?	Yes No 🟒	Is the Sampled Area within a Wetland?	Yes No 🟒
Wetland Hydrology Present?	Yes No 🟒	lf yes, optional Wetland Site ID:	
Remarks: (Explain alternative procedures her Covertype is UPL. Circumstances are not nor	e or in a separate report mal due to agricultural ac	) tivities. Cattle grazing .	

#### HYDROLOGY

Wetland Hydrology Indicators:				
Primary Indicators (minimum of	one is requi	red; check all	<u>that apply)</u>	Secondary Indicators (minimum of two required)
<ul> <li>Surface Water (A1)</li> <li>High Water Table (A2)</li> <li>Saturation (A3)</li> <li>Water Marks (B1)</li> <li>Sediment Deposits (B2)</li> <li>Drift Deposits (B3)</li> <li>Algal Mat or Crust (B4)</li> <li>Iron Deposits (B5)</li> <li>Inundation Visible on Aerial I</li> </ul>	magery (B7)	Water- Aquati Marl D Hydro Oxidiz Preser Recen Thin M Other	Stained Leaves (B9) ic Fauna (B13) Deposits (B15) gen Sulfide Odor (C1) ed Rhizospheres on Living Roots (C nce of Reduced Iron (C4) t Iron Reduction in Tilled Soils (C6) Juck Surface (C7) (Explain in Remarks)	<ul> <li>Surface Soil Cracks (B6)</li> <li>Drainage Patterns (B10)</li> <li>Moss Trim Lines (B16)</li> <li>Dry-Season Water Table (C2)</li> <li>Crayfish Burrows (C8)</li> <li>Saturation Visible on Aerial Imagery (C9)</li> <li>Stunted or Stressed Plants (D1)</li> <li>Geomorphic Position (D2)</li> <li>Shallow Aquitard (D3)</li> <li>Microtopographic Relief (D4)</li> </ul>
Field Observations:	Surface (DO)			
Surface Water Present?	Yes	No 🖌	Depth (inches):	
Water Table Present?	Yes	No 🟒	Depth (inches):	Wetland Hydrology Present? Yes No
Saturation Present?	Yes	No 🟒	Depth (inches):	
(includes capillary fringe)				
Describe Recorded Data (stream	i gauge, mon	itoring well, a	erial photos, previous inspections)	), if available:

## Sampling Point: W-BTF-03\_UPL-1

Tree Stratum (Plot size: <u>30 ft</u> )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test works	h <b>eet:</b> ipecies That		
1 Phampus cathartica	15	Voc	FAC	Are OBL, FACW, or FAC		1	(A)
2.	15	103	TAC	Total Number of Domir	nant Species	4	(B)
3.				Across All Strata:			(2)
4.				Percent of Dominant S	pecies That	25	(A/B)
5				Prevalence Index work	sheet:		
6	. <u></u>			Total % Cover	of:	Multiply	Bv:
7	·			OBL species	0	x 1 =	<u></u> 0
	15	= Total Cov	er	FACW species	0	x 2 =	0
Sapling/Shrub Stratum (Plot size: <u>15 ft</u> )				FAC species	15	×3=	45
1	0			FACI I species	08	× 1 -	302
2					0	× 4 - × 5 -	0
3.				Column Totals	112	× 5 - (A)	(0) 70
4.						(A) _	437 (D)
5.				Prevalence in	dex = B/A =	3.9	
6.				Hydrophytic Vegetation	Indicators:		
7.				1- Rapid Test for H	lydrophytic V	egetatior/	ו
	0	= Total Cov	er	2 - Dominance Te	st is > 50%		
Herb Stratum (Plot size: 5 ft )		-		3 - Prevalence Ind	ex is $\leq 3.0^1$		
1. Phleum pratense	35	Yes	FACU	4 - Morphological	Adaptations <sup>1</sup>	(Provide	supporting
2 Vicia americana	28	Yes	FACU	data in Remarks or on	a separate sh	ieet)	
3 Trifolium repens	20	Ves	FACU	Problematic Hydr	ophytic Vege	tation <sup>1</sup> (Ex	kplain)
A Tarayacum officinale	10	No	FACU	<sup>1</sup> Indicators of hydric so	il and wetlan	d hydrolo	gy must be
5. Plantago major	5	No	EACU	present, unless disturb	ed or probler	matic	
c	5	NU	FACU	Definitions of Vegetatio	on Strata:		
o	·			Iree – Woody plants 3	n. (7.6 cm) or	r more in	diameter at
7	·			Contine (obruh	garuless of fi	eigni. han 2 in 1	
8	·	<u> </u>		greater than or equal t	n 3 28 ft (1 m	11d11 5 111. 1 ) tall	
9	·			Herb All berbaceous	(non woody)	nlante ro	gardless of
10	·			size, and woody plants	less than 3.2	8 ft tall.	gal diess of
11				Woody vines - All wood	ly vines great	ter than 3	28 ft in
12	·	<u> </u>		height.	.,		201111
	98	= Total Cov	er	Hydrophytic Vegetatio	n Procont?	/oc 1	
<u>Woody Vine Stratum</u> (Plot size: <u>30 ft</u> )				Tiyuropriyuc vegetatio		105 1	NO <u>_</u>
1	0						
2							
3							
4	·						
	0	= Total Cov	er				
Remarks: (Include photo numbers here or on a separat	e sheet.)			,			

SOIL

## Sampling Point: W-BTF-03\_UPL-1

ches) Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup> Te	exture			Remarks
- 18 10YR 3/6	100				Silty	Clay Loam			
			·						
			· —						
			· —			·			
			·						
			·						
e: C = Concentration, D = D	epletio	n, RM = Reduced	Matr	rix, MS =	Masked Sand Grains.	<sup>2</sup> Location: PL = Pore L	ining, N	1 = Ma	atrix.
ric Soil Indicators:						Indicators for Pro	olemati	c Hyd	ric Soils <sup>3</sup> :
Histic Epipedon (A2) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surfac Fhick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5)	e (A11 <u>)</u>	Thin Dark Sur Loamy Mucky Loamy Gleyer Depleted Mat Redox Dark S Depleted Dar Redox Depre	face / Min d Ma crix (F urfac k Sur ssion	(S9) <b>(LRR</b> eral (F1) ( trix (F2) -3) -6 (F6) -face (F7) ns (F8)	(LRR K, L)	2 cm Muck (A Coast Prairie I 5 cm Mucky P Dark Surface I Polyvalue Beld Thin Dark Sur Iron-Mangane Piedmont Floo Mesic Spodic Red Parent M	0) (LRR Redox (/ eat or P S7) (LRI w Surfa face (S9 se Mas odplain TA6) (N aterial (	(K, L, I Peat (S R K, L) ace (S () (LRR ses (F Soils ( ILRA 1 F21)	MLRA 149B) .RR K, L, R) 3) (LRR K, L, R) 8) (LRR K, L) K, L) 12) (LRR K, L, R) 12) (MLRA 149B) 44A, 145, 149B)
Stripped Matrix (S6) Dark Surface (S7) <b>(LRR R, ML</b> icators of hydrophytic vegel	<b>.RA 149</b> tation a	<b>B)</b> nd wetland hydr	ology	y must be	e present, unless distur	Very Shallow l Other (Explair bed or problematic.	oark Su in Rem	rface narks)	(TF12)
Stripped Matrix (S6) Dark Surface (S7) <b>(LRR R, ML</b> icators of hydrophytic veget <b>rictive Layer (if observed):</b>	<b>.RA 149</b> tation a	<b>B)</b> nd wetland hydr	ology	y must be	e present, unless distur	Very Shallow l Other (Explair bed or problematic.	oark Su in Rem	rface narks)	(TF12)
Stripped Matrix (S6) Dark Surface (S7) <b>(LRR R, ML</b> <u>cators of hydrophytic veget</u> rictive Layer (if observed): Type:	.RA 149 tation a	<b>B)</b> nd wetland hydr Gravel	ology	y must be	e present, unless distur Hydric Soil Present?	Very Shallow l Other (Explair bed or problematic.	Dark Su in Rem <b>/es</b>	rface harks) _ <b>No</b> _	(TF12) ✓
Stripped Matrix (S6) Dark Surface (S7) <b>(LRR R, ML</b> licators of hydrophytic veget trictive Layer (if observed): Type: Depth (inches): iarks:	RA 149	<b>B)</b> nd wetland hydr <u>Gravel</u> 18	ology	y must be	e present, unless distur Hydric Soil Present?	Very Shallow l Other (Explair bed or problematic.	Dark Su in Rem	rface harks) _ <b>No</b> _	∠

Soil Photos



Photo of Sample Plot South Photo of Sample Plot West



# WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Riverside Solar	City/County: Chaumont, Jefferson	Sampling Date: 2020-June-02				
Applicant/Owner: Geronimo	State: NY	Sampling Point: W-BTF-04_PEM-1				
Investigator(s): Brenner Fahrenz, Bridgette Roone	y, Ben Popham Section, Township, Range:					
Landform (hillslope, terrace, etc.): Depression	Local relief (concave, convex, none):	Concave Slope (%): 1 to 3				
Subregion (LRR or MLRA): LRR R	Lat: 44.077105508 Long:	-76.0694414864 Datum: WGS84				
Soil Map Unit Name:         KgAKingsbury silty clay, 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 Circums	tances" present? Yes No 🟒				
Are Vegetation, Soil, or Hydrology	naturally problematic? (If needed, explain ar	y answers in Remarks.)				

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

Hydrophytic Vegetation Present?	Yes 🟒 No		
Hydric Soil Present?	Yes 🟒 No	Is the Sampled Area within a Wetland?	Yes 🯒 No
Wetland Hydrology Present?	Yes 🟒 No	If yes, optional Wetland Site ID:	W-BTF-04
Remarks: (Explain alternative procedures he Covertype is PEM. Circumstances are not no impacts observed.	ere or in a separate report	:) ictivities. Circumstances are not normal due to n	nowing of vegetation. ATV/ORV

#### HYDROLOGY

Wetland Hydrology Indicators:			
Primary Indicators (minimum of	one is required; check all	<u>that apply)</u>	Secondary Indicators (minimum of two required)
<ul> <li>Surface Water (A1)</li> <li>High Water Table (A2)</li> <li>Saturation (A3)</li> <li>Water Marks (B1)</li> <li>Sediment Deposits (B2)</li> <li>Drift Deposits (B3)</li> <li>Algal Mat or Crust (B4)</li> <li>Iron Deposits (B5)</li> <li>Inundation Visible on Aerial I</li> <li>Sparsely Vergetated Concave</li> </ul>	_ Water Aquat Marl I Hydro Oxidiz Preser Recen Thin N magery (B7)Other Surface (B8)	-Stained Leaves (B9) ic Fauna (B13) Deposits (B15) ogen Sulfide Odor (C1) red Rhizospheres on Living Roots (C3 nce of Reduced Iron (C4) it Iron Reduction in Tilled Soils (C6) <i>A</i> uck Surface (C7) (Explain in Remarks)	<ul> <li>Surface Soil Cracks (B6)</li> <li>Drainage Patterns (B10)</li> <li>Moss Trim Lines (B16)</li> <li>Dry-Season Water Table (C2)</li> <li>Crayfish Burrows (C8)</li> <li>Saturation Visible on Aerial Imagery (C9)</li> <li>Stunted or Stressed Plants (D1)</li> <li>Geomorphic Position (D2)</li> <li>Shallow Aquitard (D3)</li> <li>Microtopographic Relief (D4)</li> <li>(EAC-Neutral Test (D5)</li> </ul>
Field Observations:	5411466 (56)		
Surface Water Present?	Yes No 🟒	Depth (inches):	
Water Table Present?	Yes No 🟒	Depth (inches):	Wetland Hydrology Present? Yes _∠_ No
Saturation Present?	Yes No 🟒	Depth (inches):	
(includes capillary fringe)			
Remarks:	i gauge, monitoring well, a	aerial photos, previous inspections), i	if available:

Sampling Point: W-BTF-04\_PEM-1

Tree Stratum (Plot size: <u>30 ft</u> )	Absolute	Dominant	Indicator	Dominance Test works	heet:		
1 Quarsus hisalar	10	Species:		Are OBL, FACW, or FAC	:	2	(A)
1. Quercus bicolor		<u>res</u>	FACW	Total Number of Domi	nant Species		
2. Umus americana	<u>∠</u>	NO	FACW	Across All Strata:		2	(B)
3.				Percent of Dominant S	pecies That	100	(4 (D)
4	,			Are OBL, FACW, or FAC	:		(A/B)
5				Prevalence Index work	sheet:		
7				Total % Cover	of:	Multiply	<u>By:</u>
7		- Tatal Cau		OBL species	0	x 1 =	0
	12	= Total Cov	er	FACW species	97	x 2 =	194
Sapling/Shrub Stratum (Plot size: <u>15 ft</u> )				FAC species	0	x 3 =	0
1	0			FACU species	10	x 4 =	40
2				UPL species	0	x 5 =	0
3				Column Totals	107	(A)	234 (B)
4				Prevalence Ir	ndex = B/A =	2.2	·
5				Hydrophytic Vegetation	n Indicators:		
6				1- Rapid Test for I	Hydronhytic \	/egetation	
7					st is >50%	egetation	
	0	= Total Cov	er	2 - Dominance re	$\frac{1}{100} = \frac{1}{100} = \frac{1}$		
<u>Herb Stratum</u> (Plot size: <u>5 ft</u> )				3 - Prevalence inc	Adaptations'	(Drovido	supporting
1. <i>Phalaris arundinacea</i>	70	Yes	FACW	data in Remarks or on	a senarate sh		supporting
2. <i>Poa palustris</i>	15	No	FACW	Problematic Hydr	onhytic Vege	tation <sup>1</sup> (Ex	nlain)
3. Poa pratensis	10	No	FACU	<sup>1</sup> Indicators of hydric sc	oping the vege	d hydrolog	y must he
4.				present, unless disturb	ed or proble	matic	by must be
5.				Definitions of Vegetation	on Strata:		
6.				Tree – Woody plants 3	in. (7.6 cm) oi	r more in c	liameter at
7.				breast height (DBH), re	gardless of h	eight.	
8.				Sapling/shrub - Woody	/ plants less t	han 3 in. D	BH and
9.				greater than or equal t	o 3.28 ft (1 m	) tall.	
10				Herb – All herbaceous	(non-woody)	plants, reg	ardless of
11				size, and woody plants	less than 3.2	8 ft tall.	
12	,			Woody vines – All woo	dy vines great	ter than 3.	28 ft in
	95	= Total Cov	er	height.			
Woody Vine Stratum (Plot size: 30 ft )		-	CI	Hydrophytic Vegetatic	n Present?	/es 🟒 N	0
1	0						
·	0			•			
2.							
5							
4							
	0	= lotal Cov	er				
Remarks: (Include photo numbers here or on a se	oarate sheet.)						

SOIL

-5       10YR 3/1       90       10YR 4/6       10       C       M/PL       Silty Clay         -13       10YR 3/1       80       10YR 5/8       20       C       M       Silty Clay         -20       10YR 3/1       70       10YR 5/8       30       C       M       Clay         -20       10YR 3/1       70       10YR 5/8       30       C       M       Clay         -20       10YR 3/1       70       10YR 5/8       30       C       M       Clay         -20       10YR 3/1       70       10YR 5/8       30       C       M       Clay         -20       10YR 3/1       70       10YR 5/8       30       C       M       Clay         -20       10YR 3/1       70       10YR 5/8       30       C       M       Clay         -20       10YR 3/1       70       10YR 5/8       30       C       M       Clay         -20       10YR 3/1       10       10YR 5/8       30       C       M       Clay         -20       10YR 5/8       20       10YR 5/8       20       10YR 5/8       20       20       10YR 5/8       20       20       20	iches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
13       10YR 3/1       80       10YR 5/8       20       C       M       Silty Clay         -20       10YR 3/1       70       10YR 5/8       30       C       M       Clay         -20       10YR 3/1       70       10YR 5/8       30       C       M       Clay         -20       10YR 3/1       70       10YR 5/8       30       C       M       Clay         -20       10YR 3/1       70       10YR 5/8       30       C       M       Clay         -20       10YR 3/1       70       10YR 5/8       30       C       M       Clay         -20       10YR 3/1       70       10YR 5/8       30       C       M       Clay	0 - 5	10YR 3/1	90	10YR 4/6	10	C	M/PL	Silty Clay	
20       10YR 3/1       70       10YR 5/8       30       C       M       Clay         20       10YR 3/1       70       10YR 5/8       30       C       M       Clay         20       10YR 3/1       70       10YR 5/8       30       C       M       Clay         20       10YR 3/1       70       10YR 5/8       30       C       M       Clay         20       10YR 3/1       70       10YR 5/8       30       C       M       Clay         20       10YR 3/1       70       10YR 5/8       30       C       M       Clay         20       10YR 3/1       70       10YR 5/8       30       C       M       Clay         20       10idicators       10idicators       10idicators       Indicators for Problematic Hydric Soils?       Indicators for Problematic Hydric Soils?       Indicators for Problematic Hydric Soils?       10istic Epipedon (A2)       Thin Dark Surface (S3) (LRR K, L R)       2 cm Muck (A10) (LR K, L, R)       2 cm Muck (A10) (LR K, L K)	- 13	10YR 3/1	80	10YR 5/8	20	С	M	Silty Clay	
e: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. *Location: PL = Pore Lining, M = Matrix.         ic Soil Indicators:         listic Epipedon (A2)         Thin Dark Surface (S8) (LRR R, MLRA 149B)         Jack Histic (A3)         Loamy Mucky Mineral (F1)         Likak Dark Surface (A11)         Redox Depressions (F8)         andy Mucky Mineral (S1)         andy Mucky Mineral (S1)         Aredox Surface (S7) (LRR R, MLRA 149B)         andy Mucky Mineral (S1)         Aredox Surface (S7) (LRR R, MLRA 149B)         andy Mucky Mineral (S1)         Aredox Surface (S7) (LRR R, MLRA 149B)         Coast Prairie Redox (A16) (LRR K, L, R)         Depleted Matrix (F3)         Depleted Matrix (F3)         Bardy Mucky Mineral (S1)         Redox Depressions (F8)         Mediox Surface (S7) (LRR K, L)         Dirtipped Matrix (S6)         Dark Surface (S7) (LRR R, MLRA 149B)         Cacators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.         rictive Layer (if observed):         Type:         Depth (inches):         arks:	3 - 20	10YR 3/1	70	10YR 5/8	30	С	M	Clay	
e: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. <sup>2</sup> Location: PL = Pore Lining, M = Matrix.         ic Soil Indicators:       Indicators for Problematic Hydric Soils?:         listosol (A1)       Polyvalue Below Surface (S8) (LRR R, MLRA 149B)         jistic Epipedon (A2)       Thin Dark Surface (S9) (LRR K, L)         hydrogen Sulfide (A4)       Loamy Mucky Mineral (F1) (LRR K, L)         polyted Below Dark Surface (A11)       Redox Dark Surface (F6)         hirtk Dark Surface (A12)       Depleted Matrix (F2)         andy Mucky Mineral (S1)       Redox Depressions (F8)         andy Redox (S5)       Depleted Dark Surface (F7)         andy Redox (S5)       Mesic Spodic (TA6) (MLRA 1449B)         itripped Matrix (S6)       Very Shallow Dark Surface (TF12)         Dark Surface (S7) (LRR R, MLRA 149B)       Redox Depressions (F8)         andy Redox (S5)       Red Parent Material (F21)         tripped Matrix (S6)       Red Parent Material (F21)         Dark Surface (S7) (LRR R, MLRA 149B)       Other (Explain in Remarks)         cators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.         ritive Layer (if observed):       Type:         Type:       None         Depth (inches):       Hydric Soil Present?       Yes No         arks:								,	
e: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. <sup>2</sup> Location: PL = Pore Lining, M = Matrix.         ic Soil Indicators:       Indicators for Problematic Hydric Soils*:         listic Epipedon (A2)       Thin Dark Surface (S8) (LRR R, MLRA 149B)					·				
e: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. <sup>2</sup> Location: PL = Pore Lining, M = Matrix.         ic Soil Indicators:       Indicators for Problematic Hydric Soils <sup>2</sup> :         listosol (A1)      Polyvalue Below Surface (S8) (LRR R, MLRA 149B)      2 cm Muck (A10) (LRR K, L, MLRA 149B)         listic Epipedon (A2)      Thin Dark Surface (S9) (LRR R, MLRA 149B)      2 cm Muck (A10) (LRR K, L, R)         listic K(A3)      Loamy Mucky Mineral (F1) (LRK K, L)      S cm Mucky Peat or Peat (S3) (LRR K, L, R)         lydrogen Sulfide (A4)      Loamy Gleyed Matrix (F3)      Dark Surface (S7) (LRR K, L)         lydrogen Sulfide Layers (A5)      Depleted Matrix (F3)      Delyvalue Below Surface (S8) (LRR K, L)         lydrogen Sulfide Layers (A51)      Depleted Dark Surface (F7)      Thin Dark Surface (S9) (LRR K, L)         andy Mucky Mineral (S1)      Redox Depressions (F8)      Tron-Manganese Masses (F12) (LRR K, L, R)         andy Gleyed Matrix (S6)      Predmont Floodplain Soils (F19) (MLRA 149B)									
e: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. <sup>2</sup> Location: PL = Pore Lining, M = Matrix.         ic Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         listosol (A1)      Polyvalue Below Surface (S9) (LRR R, MLRA 149B)      2 cm Muck (A10) (LRR K, L, MLRA 149B)         listic Epipedon (A2)      Thin Dark Surface (S9) (LRR R, MLRA 149B)      C coast Prairie Redox (A16) (LRR K, L, R)         listic Epipedon (A2)      Thin Dark Surface (S9) (LRR R, MLRA 149B)      C coast Prairie Redox (A16) (LRR K, L, R)         listic Epipedon Sulfide (A4)      Loamy Mucky Mineral (F1) (LRR K, L)      S for Muck yeat or Peat (S3) (LRR K, L, R)         lydrogen Sulfide Layers (A5)									
e: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. <sup>2</sup> Location: PL = Pore Lining, M = Matrix. ic Soil Indicators: Indicators for Problematic Hydric Soils <sup>3</sup> : Istics Dipedon (A2) Thin Dark Surface (S9) (LRR R, MLRA 149B) Istic Epipedon (A2) Thin Dark Surface (S9) (LRR R, MLRA 149B) Loamy Mucky Mineral (F1) (LRR K, L) S cm Mucky Paet or Peat (S3) (LRR K, L, R) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Dark Surface (S7) (LRR K, L) tratified Layers (A5) Depleted Matrix (F3) Polyvalue Below Surface (S8) (LRR K, L) hick Dark Surface (A11) Redox Dark Surface (F6) Thin Dark Surface (S9) (LRR K, L) hick Dark Surface (A12) Depleted Dark Surface (F7) Iron-Manganese Masses (F12) (LRR K, L, R) andy Mucky Mineral (S1) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) mardy Gleyed Matrix (S6) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) cators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. rictive Layer (if observed): Type: None Hydric Soil Present? Yes No Type: None Hydric Soil Present? Yes No arks:									
e: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. <sup>2</sup> Location: PL = Pore Lining, M = Matrix.         ic Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         tistsosol (A1)       Polyvalue Below Surface (S8) (LRR R, MLRA 149B)         listic Epipedon (A2)       Thin Dark Surface (S9) (LRR R, MLRA 149B)         liack Histic (A3)       Loamy Mucky Mineral (F1) (LRR K, L)         lydrogen Sulfide (A4)       Loamy Gleyed Matrix (F2)         tratified Layers (A5)       ✓ Depleted Matrix (F3)         vepleted Below Dark Surface (A12)       Depleted Dark Surface (F6)         hick Dark Surface (A12)       Depleted Dark Surface (F7)         andy Mucky Mineral (S1)       Redox Depressions (F8)         andy Redox (S5)       Piedmont Floodplain Soils (F19) (MLRA 1449B)         tripped Matrix (S6)       Mesic Spodic (TA6) (MLRA 144A, 145, 149B)         Cators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.       Pies/ None         Type:       None       Hydric Soil Present?       Yes _ No         Depth (inches):       arks:       Hydric Soil Present?       Yes _ No									
itic Soil indicators:	e: C = C	Concentration, D =	Deple	tion, RM = Reduce	ed Ma	trix, MS =	= Masked S	and Grains. <sup>2</sup> L	ocation: PL = Pore Lining, M = Matrix.
isitistic Epipedon (A2)	listosol	Indicators:		Polyvaluo P	alow	Surfacol	(1 DD D		Indicators for Problematic Hydric Solls <sup>3</sup> :
Index Explosed of (us)	Histic Fr	ninedon (A2)		Folyvalue E	urfac	عدا المدور م (29) <b>(ا R</b>		149B)	2 cm Muck (A10) (LRR K, L, MLRA 149B)
Audri Hote (1)	Black Hi	istic (A3)			-kv Mi	neral (F1		1490)	Coast Prairie Redox (A16) <b>(LRR K, L, R)</b>
Joint Sufface (x1)	Hydroge	en Sulfide (A4)		Loamy Glev	/ed M	atrix (F2)	) (EIXIX IX, E)		5 cm Mucky Peat or Peat (S3) <b>(LRR K, L, R)</b>
Polyvalue Below Surface (A11) Redox Dark Surface (F6)   hick Dark Surface (A12) Depleted Dark Surface (F7)   andy Mucky Mineral (S1) Redox Depressions (F8)   iandy Gleyed Matrix (S4) Piedmont Floodplain Soils (F19) (MLRA 149B)   iandy Redox (S5) Red Parent Material (F21)   itripped Matrix (S6) Red Parent Material (F21)   Dark Surface (S7) (LRR R, MLRA 149B) Very Shallow Dark Surface (TF12)   cators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.   rictive Layer (if observed):   Type:   None   Depth (inches):   Arks:	Stratifie	d Lavers (A5)		✓ Depleted M	latrix	(F3)			Dark Surface (S7) <b>(LRR K, L)</b>
Thin Dark Surface (X12)	Denlete	d Below Dark Surf	ace (A	11) Redox Dark	Surf	(F6)			Polyvalue Below Surface (S8) (LRR K, L)
Index burk Sufface (R12) <td>Thick D:</td> <td>ark Surface (A12)</td> <td>ace (A</td> <td></td> <td>ork Su</td> <td>urface (F</td> <td>7)</td> <td></td> <td> Thin Dark Surface (S9) (LRR K, L)</td>	Thick D:	ark Surface (A12)	ace (A		ork Su	urface (F	7)		Thin Dark Surface (S9) (LRR K, L)
andy Mucky Mineral (31)	Candy A	Auchy Minoral (S1)		Depieted D	roccio		()		Iron-Manganese Masses (F12) (LRR K, L, R)
andy Gleyed Matrix (S4)	<b>N - I I I I I I</b> I I I I I I I I I I I I	/10000000000000000000000000000000000000		Redox Dep	ressio	IIS (FO)			Diadmont Floodplain Soils (E10) (MI DA 1400
andy Redox (S5)									
itripped Matrix (S6)	Sandy G	Gleyed Matrix (S4)							Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
Dark Surface (S7) (LRR R, MLRA 149B)   cators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.   rictive Layer (if observed):   Type:   None   Depth (inches):   arks:	Sandy R Sandy C Sandy R	Gleyed Matrix (S4) Redox (S5)							Pleating the Please of the Please o
cators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.  rictive Layer (if observed):  Type:NoneHydric Soil Present? YesNo Depth (inches):	Sandy C Sandy C Sandy R Stripped	Gleyed Matrix (S4) Redox (S5) d Matrix (S6)							Pleannoint Ploadplain Sons (P19) (MLRA 149B Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Red Parent Material (F21) Very Shallow Dark Surface (TE12)
rictive Layer (if observed): Type:NoneHydric Soil Present? Yes _∠_ No Depth (inches): arks:	Sandy C Sandy C Sandy R Stripped Dark Su	Gleyed Matrix (S4) Redox (S5) d Matrix (S6) Irface (S7) <b>(LRR R, I</b>	MLRA 1	49B)					<ul> <li> Predificit Floodplain Sons (F19) (MERA 149B</li> <li> Mesic Spodic (TA6) (MLRA 144A, 145, 149B)</li> <li> Red Parent Material (F21)</li> <li> Very Shallow Dark Surface (TF12)</li> <li>Other (Evolution in Remarks)</li> </ul>
Type:     None       Depth (inches):     Hydric Soil Present?       arks:	Sandy G Sandy G Sandy R Stripped Dark Su	Gleyed Matrix (S4) Redox (S5) d Matrix (S6) Irface (S7) <b>(LRR R, I</b>	MLRA 1	49B)	drolo	av must l	ne present	unless disturbe	<ul> <li> Predimont Produptian Sons (P19) (MLRA 149B</li> <li> Mesic Spodic (TA6) (MLRA 144A, 145, 149B)</li> <li> Red Parent Material (F21)</li> <li> Very Shallow Dark Surface (TF12)</li> <li> Other (Explain in Remarks)</li> </ul>
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Soil Photos



Photo of Sample Plot East Photo of Sample Plot West



# WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Riverside	Solar	Ci	i <b>ty/County:</b> Chau	mont, Jeffe	rson		Sampling Date:	2020-June-02
Applicant/Owner: Ge	eronimo				State: NY		Sampling Point: V	N-BTF-04_UPL-1
Investigator(s): Bren	ner Fahrenz, E	Bridgette Rooney,	Ben Popham	Sect	ion, Township, Ra	nge:		
Landform (hillslope, ter	rrace, etc.):	Terrace	L	.ocal relief	(concave, convex,	, none):	Convex	Slope (%): 2 to 5
Subregion (LRR or MLR	A): LRR F	R		Lat:	44.0771057436	Long:	-76.0694322723	Datum: WGS84
Soil Map Unit Name:	VeBVergen	nes silty clay loam	, 3 to 8 percent sl	opes			NWI classific	ation:
Are climatic/hydrologic	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 dist	urbed?	Are "Normal (	Circums	tances" present?	Yes No 🟒
Are Vegetation,	Soil,	or Hydrology	_ naturally proble	matic?	(If needed, ex	plain ar	y answers in Rema	arks.)

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

Hydrophytic Vegetation Present?	Yes No 🟒		
Hydric Soil Present?	Yes No 🟒	Is the Sampled Area within a Wetland?	Yes No 🟒
Wetland Hydrology Present?	Yes No 🟒	If yes, optional Wetland Site ID:	
Remarks: (Explain alternative procedure	es here or in a separate rep	oort)	
Covertype is UPL. Circumstances are no	ot normal due to agricultura	al activities. Circumstances are not normal due to m	nowing of vegetation.

#### HYDROLOGY

Wetland Hydrology Indicators:				
Primary Indicators (minimum of or	ne is requi	ired; check all t	that apply)	Secondary Indicators (minimum of two required)
<ul> <li>Surface Water (A1)</li> <li>High Water Table (A2)</li> <li>Saturation (A3)</li> <li>Water Marks (B1)</li> <li>Sediment Deposits (B2)</li> <li>Drift Deposits (B3)</li> <li>Algal Mat or Crust (B4)</li> <li>Iron Deposits (B5)</li> <li>Inundation Visible on Aerial Im.</li> </ul>	agery (B7)	Water- Aquati Marl D Hydrog Oxidize Preser Recent Thin M	Stained Leaves (B9) c Fauna (B13) peposits (B15) gen Sulfide Odor (C1) ed Rhizospheres on Living Roots (C3) nce of Reduced Iron (C4) t Iron Reduction in Tilled Soils (C6) luck Surface (C7) (Explain in Remarks)	<ul> <li>Surface Soil Cracks (B6)</li> <li>Drainage Patterns (B10)</li> <li>Moss Trim Lines (B16)</li> <li>Dry-Season Water Table (C2)</li> <li>Crayfish Burrows (C8)</li> <li>Saturation Visible on Aerial Imagery (C9)</li> <li>Stunted or Stressed Plants (D1)</li> <li>Geomorphic Position (D2)</li> <li>Shallow Aquitard (D3)</li> <li>Microtopographic Relief (D4)</li> <li>EAC-Neutral Test (D5)</li> </ul>
Field Observations:				
Surface Water Present?	Yes	_ No 🟒	Depth (inches):	
Water Table Present?	Yes	No	Depth (inches):	Wetland Hydrology Present? Yes No
Saturation Present?	Yes	_ No 🟒	Depth (inches):	
(includes capillary fringe)				
Describe Recorded Data (stream g	auge, moi	nitoring well, a	erial photos, previous inspections), i	f available:

Sampling Point: W-BTF-04\_UPL-1

1.       (1)         2.       (2)         3.       (2)         4.       (2)         5.       (2)         6.       (2)         7.       (2)         3.       (2)         3.       (2)         3.       (2)         3.       (2)         3.       (2)         4.       (2)         5.       (2)         6.       (2)         7.       (2)         8.       (2)         9.       (2)         10.       Trifolium repens         11.       (2)         12.       (2)         13.       (2)         14.       (2)         15.       (2)         16.       (2)         17.       (2)         18.       (2)         19.       (2)         10.       Trifolium repens       (3)         21.       Lotus corniculatus       (2)         32.       Phleum pratense       (1)         43.       Taraxacum officinale       (2)         54.       (3)       (4) <t< th=""><th>0</th><th> = Total Cov</th><th>//er</th><th><ul> <li>Are OBL, FACW, or FAC</li> <li>Total Number of Domi</li> <li>Across All Strata:</li> <li>Percent of Dominant S</li> <li>Are OBL, FACW, or FAC</li> <li>Prevalence Index work</li> <li><u>Total % Cover</u></li> <li>OBL species</li> <li>FACW species</li> <li>FACU species</li> <li>FACU species</li> <li>Column Totals</li> <li>Prevalence I</li> <li>Hydrophytic Vegetatio</li> <li> 1- Rapid Test for</li> </ul></th><th>: inant Species Species That : csheet: of: 0 0 0 83 5 88 ndex = B/A = n Indicators: Hydrophytic V</th><th>2 0 Multiph x 1 = x 2 = x 3 = x 4 = x 5 = (A) 4.1</th><th>(K) (B) (A/B) (A/B) 0 0 0 332 25 357 (B)</th></t<>	0	= Total Cov	//er	<ul> <li>Are OBL, FACW, or FAC</li> <li>Total Number of Domi</li> <li>Across All Strata:</li> <li>Percent of Dominant S</li> <li>Are OBL, FACW, or FAC</li> <li>Prevalence Index work</li> <li><u>Total % Cover</u></li> <li>OBL species</li> <li>FACW species</li> <li>FACU species</li> <li>FACU species</li> <li>Column Totals</li> <li>Prevalence I</li> <li>Hydrophytic Vegetatio</li> <li> 1- Rapid Test for</li> </ul>	: inant Species Species That : csheet: of: 0 0 0 83 5 88 ndex = B/A = n Indicators: Hydrophytic V	2 0 Multiph x 1 = x 2 = x 3 = x 4 = x 5 = (A) 4.1	(K) (B) (A/B) (A/B) 0 0 0 332 25 357 (B)
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5.	0	Total Cov	/er	<ul> <li>Are OBL, FACW, or FAC</li> <li>Prevalence Index work</li> <li><u>Total % Cover</u></li> <li>OBL species</li> <li>FACW species</li> <li>FAC species</li> <li>FACU species</li> <li>UPL species</li> <li>Column Totals</li> <li>Prevalence I</li> <li>Hydrophytic Vegetatio</li> <li> 1- Rapid Test for</li> </ul>	:: (sheet: <u>o</u> 0 0 83 5 88 ndex = B/A = n Indicators: Hydrophytic V	<u>Multiply</u> x 1 = x 2 = x 3 = x 4 = x 5 = (A) <u>4.1</u>	/ By: 0 0 332 25 357 (B)
6.	0	_= Total Cov	/er	<ul> <li>Prevalence Index work</li> <li><u>Total % Cover</u></li> <li>OBL species</li> <li>FACW species</li> <li>FAC species</li> <li>FACU species</li> <li>UPL species</li> <li>Column Totals</li> <li>Prevalence I</li> <li>Hydrophytic Vegetatio</li> <li> 1- Rapid Test for</li> </ul>	(sheet: <u>of:</u> 0 0 83 5 88 ndex = B/A = n Indicators: Hydrophytic V	Multiply x 1 = x 2 = x 3 = x 4 = x 5 = (A) 4.1	<pre></pre>
7.	0	Total Cov	/er	<ul> <li><u>Iotal % Cover</u></li> <li>OBL species</li> <li>FACW species</li> <li>FAC species</li> <li>FACU species</li> <li>UPL species</li> <li>Column Totals</li> <li>Prevalence I</li> <li>Hydrophytic Vegetatio</li> <li>1 - Rapid Test for</li> </ul>	r of: 0 0 83 5 88 ndex = B/A = n Indicators: Hydrophytic V	Multiply x 1 = x 2 = x 3 = x 4 = x 5 = (A) <u>4.1</u>	0 0 332 25 357 (B)
Sapling/Shrub Stratum (Plot size: _15 ft _)         1.       (0)         2.	0	_ = Total Cov	/er	OBL species     FACW species     FAC species     FAC species     VPL species     OUPL species     Column Totals     Prevalence I     Hydrophytic Vegetatio    1- Rapid Test for	0 0 83 5 88 ndex = B/A = n Indicators:	x 1 = x 2 = x 3 = x 4 = x 5 = (A) <u>4.1</u>	0 0 332 25 357 (B)
Sapling/Shrub Stratum (Plot size: _15 ft)         1.	0			FACW species     FAC species     FACU species     UPL species     Column Totals     Prevalence I     Hydrophytic Vegetatio    1- Rapid Test for	0 0 83 5 88 ndex = B/A = n Indicators:	x 2 = x 3 = x 4 = x 5 = (A) <u>4.1</u>	0 0 332 25 357 (B)
1.	0			<ul> <li>FAC species</li> <li>FACU species</li> <li>UPL species</li> <li>Column Totals</li> <li>Prevalence I</li> <li>Hydrophytic Vegetatio</li> <li>1- Rapid Test for</li> </ul>	0 83 5 88 ndex = B/A = n Indicators:	x 3 = x 4 = x 5 = (A) <u>4.1</u>	0 332 25 357 (B)
2.	0			<ul> <li>FACU species</li> <li>UPL species</li> <li>Column Totals</li> <li>Prevalence I</li> <li>Hydrophytic Vegetatio</li> <li>1- Rapid Test for</li> </ul>	83 5 88 ndex = B/A = n Indicators: Hydrophytic V	x 4 = x 5 = (A) <u>4.1</u>	332 25 357 (B)
3.	0			UPL species Column Totals Hydrophytic Vegetatio I1 - Rapid Test for	5 88 ndex = B/A = n Indicators: Hydrophytic V	x 5 = (A) <u>4.1</u>	25 357 (B)
3.	0	= Total Cov		Column Totals  Prevalence I  Hydrophytic Vegetatio  1- Rapid Test for	88 ndex = B/A = n Indicators: Hydrophytic V	(A) <u>4.1</u>	357 (B)
4.	0	= Total Cov		Prevalence I     Hydrophytic Vegetatio    1- Rapid Test for	ndex = B/A = n Indicators: Hydrophytic V	4.1	<u>-</u>
5.	0	= Total Cov		<ul> <li>Hydrophytic Vegetatio</li> <li>1- Rapid Test for</li> </ul>	<b>n Indicators:</b> Hydrophytic V		
6.	0	= Total Cov		1- Rapid Test for	Hydrophytic V		
7.	0	= Total Cov				/egetatio	n
Herb Stratum (Plot size: _5 ft)         1. Trifolium repens       3         2. Lotus corniculatus       2         3. Phleum pratense       1         4. Taraxacum officinale       3         5. Asclepias syriaca       9         6	0	= Total Cov	/or	– Legendre – 2 - Dominance Te	est is > 50%	-	
Herb Stratum (Plot size: _5 ft)         1. Trifolium repens       3         2. Lotus corniculatus       2         3. Phleum pratense       1         4. Taraxacum officinale       2         5. Asclepias syriaca       9         6       2				3 - Prevalence Inc	dex is $\leq 3.0^1$		
1. Tritolium repens     33       2. Lotus corniculatus     22       3. Phleum pratense     1       4. Taraxacum officinale     32       5. Asclepias syriaca     32       6.     33	-			4 - Morphologica	I Adaptations <sup>1</sup>	<sup>1</sup> (Provide	supporting
2.     Lotus corniculatus     22       3.     Phleum pratense     1       4.     Taraxacum officinale     28       5.     Asclepias syriaca     29       6.     27	5	Yes	FACU	data in Remarks or on	a separate sh	neet)	
3. Phleum pratense     1       4. Taraxacum officinale     2       5. Asclepias syriaca     2       6.     2	5	Yes	FACU	Problematic Hyd	rophytic Vege	tation <sup>1</sup> (E	xplain)
4. Taraxacum officinale         5           5. Asclepias syriaca         5           6	5	No	FACU	<sup>1</sup> Indicators of hydric so	oil and wetlan	d hydrol	ogy must be
5. Asclepias syriaca         9           6	3	No	FACU	present, unless distur	bed or probler	matic	
6	5	No	UPL	Definitions of Vegetati	on Strata:		
7		<u> </u>		Tree – Woody plants 3	in. (7.6 cm) or	r more in	diameter at
1.				breast height (DBH), re	egardless of h	eight.	
8				Sapling/shrub - Wood	y plants less tl	han 3 in.	DBH and
9.				greater than or equal	to 3.28 ft (1 m	) tall.	
10.				Herb – All herbaceous	(non-woody)	plants, re	gardless of
11.				size, and woody plants	s less than 3.2	8 ft tall.	
12.				Woody vines – All woo	dy vines great	ter than 3	3.28 ft in
	38	= Total Cov	/er	height.			
Woody Vine Stratum (Plot size: 30 ft )		_		Hydrophytic Vegetation	on Present?	Yes	No 🖌
1. (	)						
2		·		-			
3				-			
<u> </u>		·		-			
**	0	- Total Car		-			
	U		/ei				

SOIL

(inches)	Matrix	o the o	Podov	East	nent the l	indicator or confirm th	ne absence of indicators.)	
(incries)	Color (maist)	0/	Color (moist)	04	Turnel	Loc <sup>2</sup>	Touturo	Domorka
0 12					<u>Type</u>	LUC-		Rellidiks
0-12	10YR 4/2	98	10YR 5/4	. <u> </u>				
12 - 20	10YR 5/2	95	10YR 5/3	5	0	<u>M</u>	Clay	
<u> </u>								
<u> </u>								
				·				
				·		·		
				· —		·		
				· —		·		
	oncontration D -	<u> </u>	on DM - Doducod			Macked Cand Crains	21 acation: DL - Dara Lining	M - Matrix
Type. C = C	oncentration, D – I	Jepieti	on, Rivi – Reduced	IVIAL	f IX, IVIS –	Maskeu Sanu Grains.	Location. PL – Pore Lining	, IVI – IVIALITIX.
Hydric Soil I	ndicators:						Indicators for Problem	atic Hydric Soils <sup>3</sup> :
Histosol	(A1)		Polyvalue Be	low S	Surface (S	68) (LRR R, MLRA 149B	) 2 cm Muck (A10) <b>(L</b>	RR K, L, MLRA 149B)
Histic Ep	ipedon (A2)		Thin Dark Su	rface	e (S9) <b>(LRF</b>	R, MLRA 149B)	Coast Prairie Redox	k (A16) <b>(LRR K, L, R)</b>
Black His	stic (A3)		Loamy Muck	y Mir	neral (F1)	(LRR K, L)	5 cm Mucky Peat o	r Peat (S3) <b>(LRR K, L, R)</b>
Hydroge	n Suifide (A4)		Loamy Gleye		ITTIX (FZ)		Dark Surface (S7) <b>(I</b>	RR K, L)
Stratmed	a Layers (A5)	co (A11	Depieted Ma	urix (	F3) co (F6)		Polyvalue Below Su	ırface (S8) <b>(LRR K, L)</b>
Depieted	rk Surface (A12)	ice (AT	Depleted Dark 3	suna ck Su	rfaco (E7)	N N N N N N N N N N N N N N N N N N N	Thin Dark Surface (	S9) <b>(LRR K, L)</b>
Sandy M	ucky Mineral (S1)		Depieted Dai	rk Su	11ace (F7)	)	Iron-Manganese M	asses (F12) <b>(LRR K, L, R)</b>
Sandy C	lough Matrix (54)			:55101	15 (FO)		Piedmont Floodpla	in Soils (F19) <b>(MLRA 149B)</b>
Sanuy G							Mesic Spodic (TA6)	(MLRA 144A, 145, 149B)
Sandy R	edox (SS)						Red Parent Materia	al (F21)
Stripped	Matrix (S6)						Very Shallow Dark	Surface (TF12)
							Other (Explain in R	emarks)
Dark Su	rface (S7) <b>(LRR R, N</b>	ILRA 14	9B)					
Dark Sui	rface (S7) <b>(LRR R, N</b> of hydrophytic veg	ILRA 14 etation	and wetland hydr	rolog	y must b	e present, unless distu	urbed or problematic.	
Dark Sun 3Indicators of Restrictive L	face (S7) <b>(LRR R, M</b> of hydrophytic veg <b>ayer (if observed):</b>	ILRA 14	and wetland hydr	rolog	y must b	e present, unless distu	urbed or problematic.	
Dark Sun <sup>3</sup> Indicators of <b>Restrictive L</b>	face (S7) <b>(LRR R, M</b> of hydrophytic veg <b>ayer (if observed):</b> Type:	ILRA 14	and wetland hydr	rolog	y must b	e present, unless distu Hvdric Soil Present?	urbed or problematic.	No Z
Dark Sun 3Indicators of Restrictive L	rface (S7) <b>(LRR R, M</b> of hydrophytic veg <b>ayer (if observed):</b> Type: Depth (inches):	etation	and wetland hydr	rolog	y must b	e present, unless distu Hydric Soil Present?	order (Explanation) Irbed or problematic. Yes	No
Dark Sun 3Indicators of Restrictive L	rface (S7) <b>(LRR R, M</b> of hydrophytic veg <b>ayer (if observed):</b> Type: Depth (inches):	etation	and wetland hydr None	rolog	y must b	e present, unless distu Hydric Soil Present?	rbed or problematic. Yes	No
Dark Sun 3Indicators of Restrictive L Remarks:	rface (S7) <b>(LRR R, M</b> of hydrophytic veg <b>ayer (if observed):</b> Type: Depth (inches):	etation	and wetland hydr None	rolog	y must b	e present, unless distu Hydric Soil Present?	outer (2.4,500 minuter) urbed or problematic. Yes	No
Dark Sun 3Indicators of Restrictive L Remarks:	rface (S7) <b>(LRR R, M</b> of hydrophytic veg <b>ayer (if observed):</b> Type: Depth (inches):	etation	and wetland hydr None	rolog	y must b	e present, unless distu Hydric Soil Present?	outer (2.4, parties in the problematicYes	No
Dark Sui <sup>3</sup> Indicators of Restrictive L Remarks:	rface (S7) <b>(LRR R, M</b> of hydrophytic veg <b>ayer (if observed):</b> Type: Depth (inches):	etation	and wetland hydr None	rolog	y must b	e present, unless distu	Outer (2.4, parties in the problematicYes	No
Dark Sui <sup>3</sup> Indicators of Restrictive L Remarks:	rface (S7) <b>(LRR R, M</b> of hydrophytic veg <b>ayer (if observed):</b> Type: Depth (inches):	ILRA 14	and wetland hydr None	rolog	y must bi	e present, unless distu	Outer (2.1,100,000) urbed or problematic. Yes	No
Dark Sui <sup>3</sup> Indicators of Restrictive L Remarks:	rface (S7) <b>(LRR R, M</b> of hydrophytic veg <b>ayer (if observed):</b> Type: Depth (inches):	ILRA 14	and wetland hydr None	<u>-olog</u>	y must b	e present, unless distu	Outer (2.1,100 minute) urbed or problematic. Yes	No
Dark Sui <sup>3</sup> Indicators of Restrictive L Remarks:	rface (S7) <b>(LRR R, M</b> of hydrophytic veg <b>ayer (if observed):</b> Type: Depth (inches):	ILRA 14 etation	and wetland hydr	rolog	y must b	e present, unless distu	outer (2.1,100 minute) urbed or problematic. Yes	No
Dark Sui <sup>3</sup> Indicators of Restrictive L Remarks:	rface (S7) <b>(LRR R, M</b> of hydrophytic veg <b>ayer (if observed):</b> Type: Depth (inches):	Etation	and wetland hydr	rolog	y must b	e present, unless distu	outer (2.4,54,64,64,64,64,64,64,64,64,64,64,64,64,64	No
Dark Sui <sup>3</sup> Indicators of Restrictive L Remarks:	rface (S7) <b>(LRR R, M</b> of hydrophytic veg <b>ayer (if observed):</b> Type: Depth (inches):	etation	and wetland hydr		y must b	e present, unless distu	Outer (2.1,144,144,144,144,144,144,144,144,144,1	No
Dark Sui <sup>3</sup> Indicators of Restrictive L Remarks:	rface (S7) <b>(LRR R, M</b> of hydrophytic veg <b>ayer (if observed):</b> Type: Depth (inches):	ILRA 14	and wetland hydr	-	y must b	e present, unless distu	outer (Explanation irbed or problematic. Yes	No
Dark Sui <sup>3</sup> Indicators of Restrictive L Remarks:	rface (S7) <b>(LRR R, M</b> of hydrophytic veg <b>ayer (if observed):</b> Type: Depth (inches):	etation	and wetland hydr		y must b	e present, unless distu	outer (Explanation) urbed or problematic. Yes	No
Dark Sur <sup>3</sup> Indicators of Restrictive L Remarks:	rface (S7) <b>(LRR R, M</b> of hydrophytic veg <b>ayer (if observed):</b> Type: Depth (inches):	etation	and wetland hydr		y must b	e present, unless distu	outer (Explanation index of problematic. Yes	No
Dark Sur <sup>3</sup> Indicators of Restrictive L Remarks:	rface (S7) <b>(LRR R, M</b> of hydrophytic veg <b>ayer (if observed):</b> Type: Depth (inches):	etation	and wetland hydr	- -	y must b	e present, unless distu	outer (Explanation) urbed or problematic. Yes	No/_
Dark Sur <sup>3</sup> Indicators of Restrictive L Remarks:	rface (S7) <b>(LRR R, M</b> of hydrophytic veg <b>ayer (if observed):</b> Type: Depth (inches):	lLRA 14	and wetland hydr	rolog	y must b	e present, unless distu	Outer (Explanation) Irbed or problematic. Yes	No/_
Dark Sur <sup>3</sup> Indicators of Restrictive L Remarks:	rface (S7) <b>(LRR R, M</b> of hydrophytic veg <b>ayer (if observed):</b> Type: Depth (inches):	ILRA 14	and wetland hydr	rolog	y must b	e present, unless distu	Yes	No/_
Dark Sur <sup>3</sup> Indicators of Restrictive L Remarks:	rface (S7) <b>(LRR R, M</b> <u>of hydrophytic veg</u> <b>ayer (if observed):</b> Type: Depth (inches):	ILRA 14	and wetland hydr		y must b	e present, unless distu Hydric Soil Present?	Yes	No/_
Dark Sui <u>3Indicators of</u> Restrictive L Remarks:	rface (S7) <b>(LRR R, M</b> <u>of hydrophytic veg</u> <b>ayer (if observed):</b> Type: Depth (inches):	LLRA 14	and wetland hydr		y must b	e present, unless distu Hydric Soil Present?	Yes	No/_
Dark Sur <sup>3</sup> Indicators of Restrictive L Remarks:	rface (S7) <b>(LRR R, M</b> <u>of hydrophytic veg</u> <b>ayer (if observed):</b> Type: Depth (inches):	ILRA 14	and wetland hydr	- -	y must b	e present, unless distu Hydric Soil Present?	Yes	No/_
Dark Sur <sup>3</sup> Indicators of Restrictive L Remarks:	rface (S7) <b>(LRR R, M</b> <u>of hydrophytic veg</u> <b>ayer (if observed):</b> Type: Depth (inches):	ILRA 14	and wetland hydr None	- -	y must b	e present, unless distu Hydric Soil Present?	Yes	No/_
Dark Sui <sup>3</sup> Indicators of Restrictive L Remarks:	rface (S7) <b>(LRR R, M</b> <u>of hydrophytic veg</u> <b>ayer (if observed):</b> Type: <u>Depth (inches):</u>		and wetland hydr	- -	y must b	e present, unless distu Hydric Soil Present?	Yes	No/_
Dark Sui <sup>3</sup> Indicators of Restrictive L Remarks:	rface (S7) <b>(LRR R, M</b> <u>of hydrophytic veg</u> <b>ayer (if observed):</b> Type: Depth (inches):		and wetland hydr	- -	y must b	e present, unless distu Hydric Soil Present?	Yes	No/_

#### Soil Photos



Photo of Sample Plot North Photo of Sample Plot East



# WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Riverside	Solar	Ci	ty/County: Cha	umont, Jeffe	rson		Sampling Date:	2020-June-02	2
Applicant/Owner: G	eronimo				State: NY		Sampling Point: V	V-BTF-05_PEN	<b>/</b> I-1
Investigator(s): Bren	ner Fahrenz, B	ridgette Rooney,	Ben Popham	Sect	ion, Township, Ra	nge:			
Landform (hillslope, ter	rrace, etc.):	Depression		Local relief	(concave, convex,	, none):	Concave	Slope (	<b>%):</b> 0 to 1
Subregion (LRR or MLR	A): LRR R			Lat:	44.0758304759	Long:	-76.0639081793	Datum:	WGS84
Soil Map Unit Name:	GvGuffin cla	у					NWI classifica	ation:	
Are climatic/hydrologic conditions on the site typical for this time of year? Yes 🖌 No (If no, explain in Remarks.)									
Are Vegetation,	Soil,	or Hydrology	_ significantly di	sturbed?	Are "Normal (	Circums	tances" present?	Yes	No 🟒
Are Vegetation,	Soil,	or Hydrology	_ naturally prob	lematic?	(If needed, ex	plain ar	iy answers in Rema	arks.)	

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

Hydrophytic Vegetation Present?	Yes No		
Hydric Soil Present?	Yes 🟒 No	Is the Sampled Area within a Wetland?	Yes 🟒 No
Wetland Hydrology Present?	Yes 🟒 No	lf yes, optional Wetland Site ID:	W-BTF-05
Remarks: (Explain alternative procedures he	re or in a separate report		
Covertype is PEM. Circumstances are not not	rmal due to agricultural a	ctivities.	

#### HYDROLOGY

Wetland Hydrology Indicators:						
Primary Indicators (minimum of or	ne is required; check all t	<u>hat apply)</u>		Secondary Indicators (minimum of two required)		
Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2)	Water- Aquati Marl D Hydrog Oxidize	Stained Leaves (B9) c Fauna (B13) eposits (B15) gen Sulfide Odor (C1) ed Rhizospheres on Living	g Roots (C3)	<ul> <li>Surface Soil Cracks (B6)</li> <li>Drainage Patterns (B10)</li> <li>Moss Trim Lines (B16)</li> <li>Dry-Season Water Table (C2)</li> <li>Crayfish Burrows (C8)</li> <li>Saturation Visible on Aerial Imagery (C9)</li> </ul>		
<ul> <li>Drift Deposits (B3)</li> <li>Algal Mat or Crust (B4)</li> <li>Iron Deposits (B5)</li> <li>Inundation Visible on Aerial Image Sparsely Vegetated Concave Summary</li> </ul>	Presen Recent Thin M agery (B7) Other ( ırface (B8)	Goils (C6)	<ul> <li>Stunted or Stressed Plants (D1)</li> <li>Geomorphic Position (D2)</li> <li>Shallow Aquitard (D3)</li> <li>Microtopographic Relief (D4)</li> <li>FAC-Neutral Test (D5)</li> </ul>			
Field Observations:						
Surface Water Present?	Yes No 🟒	Depth (inches):				
Water Table Present?	Yes 🟒 No	Depth (inches):	16	Wetland Hydrology Present? Yes No		
Saturation Present?	Yes 🟒 No	Depth (inches):	14			
(includes capillary fringe)						
Describe Recorded Data (stream g	auge, monitoring well, a	erial photos, previous ins	pections), if	available:		

Sampling Point: W-BTF-05\_PEM-1

1	0			-	•	2	(A)
2	0			Are OBL, FACW, or FA			
Z				Total Number of Dom	inant Species	2	(B)
3				- Percent of Dominant	Spacias That		
4				- Are OBL, FACW, or FA	C:	100	(A/B)
5.		·		Prevalence Index wor	ksheet:		
6.		·		- <u>Total % Cove</u>	<u>r of:</u>	Multiply E	<u>By:</u>
7				- OBL species	80	x 1 =	80
	0	= Total Cov	er	FACW species	5	x 2 =	10
<u>Sapling/Shrub Stratum</u> (Plot size: <u>15 ft</u> )				FAC species	0	x 3 =	0
1	0			- FACU species	0	x 4 =	0
2				- UPL species	0	x 5 =	0
3				- Column Totals	85	(A)	90 (B)
4				- Prevalence	Index = B/A =	1.1	. ,
5				Hydrophytic Vegetatic	n Indicators:		
6				- 1- Ranid Test for	Hydrophytic V	legetation	
7				- 2 - Dominance T	est is >50%	egetation	
	0	= Total Cov	er	2 - Dominance n	dev is $< 3.01$		
<u>Herb Stratum</u> (Plot size: <u>5 ft</u> )				J - Morphologics	Adaptations	(Provide s	unnorting
1. <i>Carex lacustris</i>	40	Yes	OBL	- data in Remarks or or	a separate sh	(Frovide 3 neet)	supporting
2. <i>Carex stricta</i>	35	Yes	OBL	Problematic Hvo	Irophytic Vege	tation <sup>1</sup> (Exi	olain)
3. <i>Phalaris arundinacea</i>	5	No	FACW	- <sup>1</sup> Indicators of hydric s	oil and wetlan	d hvdrolog	v must be
4. <i>Salix nigra</i>	5	No	OBL	present, unless distur	bed or probler	matic	,,
5				Definitions of Vegetat	ion Strata:		
6.				Tree – Woody plants 3	3 in. (7.6 cm) or	<sup>r</sup> more in d	liameter at
7.				breast height (DBH), r	egardless of h	eight.	
8.				Sapling/shrub – Wood	ly plants less tl	han 3 in. D	BH and
9.				greater than or equal	to 3.28 ft (1 m	) tall.	
10.				Herb – All herbaceous	s (non-woody)	plants, reg	ardless of
11.				size, and woody plant	s less than 3.2	8 ft tall.	
12.				Woody vines – All woo	ody vines great	ter than 3.2	28 ft in
	85	= Total Cov	er	height.			
Woody Vine Stratum (Plot size: <u>30 ft</u> )		-		Hydrophytic Vegetati	on Present?	/es 🟒 N	0
1	0						
2.				-			
3.		·		-			
4				-			
···		= Total Cov	er	-			
		-	C1				

SOIL

-	Matrix		Redox	< Feat	ures			
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0 - 12	10YR 3/2	95	10YR 3/6	5	С	М	Clay	
12 - 18	10YR 4/2	75	10YR 5/8	25	С	М	Clay	
						·		
ype: C = C	oncentration, D =	Deplet	ion, RM = Reduce	d Mat	rix, MS =	Masked	Sand Grains. <sup>2</sup> L	ocation: PL = Pore Lining, M = Matrix.
/dric Soil	Indicators:	•						Indicators for Problematic Hydric Soils <sup>3</sup> :
_ Histosol	(A1)		Polyvalue Be	elow S	Surface (S	58) <b>(LRR R</b>	MLRA 149B)	2 cm Muck (A10) (I PP K I MI PA 140P)
 Histic Ep	pipedon (A2)		Thin Dark Su	urface	e (S9) <b>(LR</b>	R R, MLRA	149B)	Coast Prairie Redox (A16) (LRR K   R)
_ Black Hi	stic (A3)		Loamy Mucl	ky Mir	neral (F1)	(LRR K, L)		5 cm Mucky Peat or Peat (S3) (I RR K. L. R)
_ Hydroge	en Sulfide (A4)		Loamy Gley	ed Ma	atrix (F2)			Dark Surface (S7) (LRR K. L)
_ Stratifie	d Layers (A5)		Depleted Ma	atrix (	F3)			Polyvalue Below Surface (S8) (LRR K, L)
_ Deplete	d Below Dark Surfa	ace (A1	1) <u>✓</u> Redox Dark	Surfa	ce (F6)	<b>`</b>		Thin Dark Surface (S9) <b>(LRR K, L)</b>
_ I NICK Da	ark Surface (ATZ)		Depleted Da	ark Su	rtace (F7	)		Iron-Manganese Masses (F12) (LRR K, L, R)
Sandy C	loved Matrix (S4)			essio	IIS (FO)			Piedmont Floodplain Soils (F19) (MLRA 149B)
	adox (S5)							Mesic Spodic (TA6) <b>(MLRA 144A, 145, 149B)</b>
Candy D	EUUX (33)							Red Parent Material (F21)
_ Sandy R	Matrix (S6)							
_ Sandy R _ Stripped	d Matrix (S6) rface (S7) <b>(I BB B M</b>	11 RA 1.	49B)					Very Shallow Dark Surface (TF12)
_ Sandy R _ Strippec _ Dark Su	d Matrix (S6) rface (S7) <b>(LRR R, M</b>	ILRA 14	49B)					Very Shallow Dark Surface (TF12) Other (Explain in Remarks)
_ Sandy R _ Strippec _ Dark Su ndicators	d Matrix (S6) rface (S7) <b>(LRR R, M</b> of hydrophytic veg	<b>ILRA 1</b> 4 etatior	<b>49B)</b> n and wetland hyc	irolog	gy must b	e present	, unless disturbe	Very Shallow Dark Surface (TF12) Other (Explain in Remarks) ed or problematic.
Sandy R Stripped Dark Su ndicators ( estrictive L	d Matrix (S6) rface (S7) <b>(LRR R, M</b> of hydrophytic veg <b>.ayer (if observed)</b> :	ILRA 1	<b>49B)</b> n and wetland hyd	irolog	gy must b	e present	, unless disturbe	Very Shallow Dark Surface (TF12) Other (Explain in Remarks) ed or problematic.
_ Sandy R _ Stripped _ Dark Su ndicators estrictive L	d Matrix (S6) rface (S7) <b>(LRR R, N</b> of hydrophytic veg <b>.ayer (if observed):</b> Type:	ILRA 14 etatior	<b>49B)</b> h and wetland hyd Hard clay	irolog	gy must b	e present	, unless disturbe oil Present?	Very Shallow Dark Surface (TF12) Other (Explain in Remarks) ed or problematic. Yes No
_ Sandy R _ Stripped _ Dark Su ndicators /	d Matrix (S6) rface (S7) <b>(LRR R, N</b> of hydrophytic veg <b>ayer (if observed):</b> Type: Depth (inches):	ILRA 14	<b>49B)</b> n and wetland hyd Hard clay 18	drolog	gy must b	e present Hydric S	, unless disturbe oil Present?	Very Shallow Dark Surface (TF12) Other (Explain in Remarks) ed or problematic. Yes No
_ Sandy R _ Stripped _ Dark Su ndicators d strictive I  marks:	d Matrix (S6) rface (S7) <b>(LRR R, N</b> of hydrophytic veg <b>.ayer (if observed):</b> Type: Depth (inches):	ILRA 14	<b>49B)</b> a and wetland hyd Hard clay 18	drolog	gy must b	e present	, unless disturbe oil Present?	Very Shallow Dark Surface (TF12) Other (Explain in Remarks) ed or problematic. Yes No
_ Sandy R _ Stripped _ Dark Su ndicators d estrictive I emarks:	d Matrix (S6) rface (S7) <b>(LRR R, N</b> of hydrophytic veg <b>.ayer (if observed):</b> Type: Depth (inches):	ILRA 14	<b>49B)</b> a and wetland hyd Hard clay 18	drolog	gy must b	Hydric S	, unless disturbe oil Present?	Very Shallow Dark Surface (TF12) Other (Explain in Remarks) ed or problematic. YesNo
_ Sandy R _ Stripped _ Dark Su adicators : estrictive I	d Matrix (S6) rface (S7) <b>(LRR R, N</b> of hydrophytic veg <b>.ayer (if observed):</b> Type: Depth (inches):	ILRA 14	<b>49B)</b> a and wetland hyd Hard clay 18	drolog	gy must b	Hydric S	, unless disturbe oil Present?	Very Shallow Dark Surface (TF12) Other (Explain in Remarks) ed or problematic. Yes∕_ No
_ Sandy R _ Strippec _ Dark Su dicators - strictive I marks:	Matrix (S6) rface (S7) <b>(LRR R, M</b> of hydrophytic veg <b>.ayer (if observed):</b> Type: Depth (inches):	ILRA 14	<b>49B)</b> a and wetland hyd Hard clay 18	drolog	gy must b	Hydric S	, unless disturbe oil Present?	Very Shallow Dark Surface (TF12) Other (Explain in Remarks) ed or problematic. Yes No
_ Sandy R _ Strippec _ Dark Su dicators I strictive I	Matrix (S6) rface (S7) <b>(LRR R, M</b> of hydrophytic veg <b>.ayer (if observed):</b> Type: Depth (inches):	ILRA 1	<b>49B)</b> a and wetland hyd Hard clay 18	drolog	gy must b	Hydric S	, unless disturbe oil Present?	Very Shallow Dark Surface (TF12) Other (Explain in Remarks) ed or problematic. Yes No
_ Sandy R _ Strippec _ Dark Su dicators - strictive I	d Matrix (S6) rface (S7) <b>(LRR R, N</b> of hydrophytic veg <b>.ayer (if observed):</b> Type: Depth (inches):	ILRA 1	<b>49B)</b> and wetland hyd Hard clay 18	drolog	gy must b	Hydric S	, unless disturbe oil Present?	Very Shallow Dark Surface (TF12) Other (Explain in Remarks) ed or problematic. Yes No
_ Sandy R _ Strippec _ Dark Su dicators : strictive I	d Matrix (S6) rface (S7) <b>(LRR R, N</b> of hydrophytic veg <b>.ayer (if observed):</b> Type: Depth (inches):	ILRA 1	<b>49B)</b> and wetland hyd Hard clay 18	drolog	gy must b	Hydric S	, unless disturbe oil Present?	Very Shallow Dark Surface (TF12) Other (Explain in Remarks) ed or problematic. Yes No
_ Sandy R _ Strippec _ Dark Su adicators . sstrictive I	d Matrix (S6) rface (S7) <b>(LRR R, M</b> of hydrophytic veg <b>.ayer (if observed):</b> Type: Depth (inches):	ILRA 14	<b>49B)</b> <u>a and wetland hyd</u> <u>Hard clay</u> 18	drolog	y must b	Hydric S	, unless disturbe	Very Shallow Dark Surface (TF12) Other (Explain in Remarks) ed or problematic. Yes No
_ Sandy R _ Strippec _ Dark Su ndicators istrictive L	d Matrix (S6) rface (S7) <b>(LRR R, M</b> of hydrophytic veg <b>.ayer (if observed):</b> Type: Depth (inches):	ILRA 14	<b>49B)</b> <u>a and wetland hyd</u> <u>Hard clay</u> 18	- -	ty must b	Hydric S	, unless disturbe	Very Shallow Dark Surface (TF12) Other (Explain in Remarks) ed or problematic. Yes No
_ Sandy R _ Strippec _ Dark Su idicators strictive L	d Matrix (S6) rface (S7) <b>(LRR R, N</b> <u>of hydrophytic veg</u> <b>.ayer (if observed):</b> Type: Depth (inches):	ILRA 14	<b>49B)</b> n and wetland hyd Hard clay 18	lrolog	ty must b	Hydric S	, unless disturbe	Very Shallow Dark Surface (TF12) Other (Explain in Remarks) ed or problematic. Yes No
_ Sandy R _ Strippec _ Dark Su ndicators estrictive L	d Matrix (S6) rface (S7) <b>(LRR R, N</b> <u>of hydrophytic veg</u> <b>.ayer (if observed):</b> Type: Depth (inches):	ILRA 14	<b>49B)</b> a and wetland hyd Hard clay 18		ty must b	e present Hydric S	, unless disturbe	Very Shallow Dark Surface (TF12) Other (Explain in Remarks) ed or problematic. Yes No
_ Sandy R _ Stripped _ Dark Su ndicators estrictive I	d Matrix (S6) rface (S7) <b>(LRR R, N</b> <u>of hydrophytic veg</u> <b>.ayer (if observed):</b> Type: Depth (inches):	ILRA 14	<b>49B)</b> a and wetland hyd Hard clay 18		ty must b	e present Hydric S	, unless disturbe	Very Shallow Dark Surface (TF12) Other (Explain in Remarks) ed or problematic. Yes No
_ Sandy R _ Stripped _ Dark Su ndicators estrictive I	d Matrix (S6) rface (S7) <b>(LRR R, M</b> of hydrophytic veg <b>Layer (if observed):</b> Type: Depth (inches):	ILRA 1	<b>49B)</b> n and wetland hyd Hard clay 18		gy must b	e present Hydric S	, unless disturbe	Very Shallow Dark Surface (TF12) Other (Explain in Remarks) ed or problematic. Yes No
_ Sandy R _ Stripped _ Dark Su estrictive I	d Matrix (S6) rface (S7) <b>(LRR R, M</b> of hydrophytic veg <b>.ayer (if observed):</b> Type: Depth (inches):	ILRA 1	<b>49B)</b> n and wetland hyd Hard clay 18		gy must b	e present	, unless disturbe	Very Shallow Dark Surface (TF12) Other (Explain in Remarks) ed or problematic. Yes No
_ Sandy R _ Stripped _ Dark Su estrictive I emarks:	d Matrix (S6) rface (S7) <b>(LRR R, M</b> of hydrophytic veg <b>.ayer (if observed):</b> Type: Depth (inches):	ILRA 14	<b>49B)</b> h and wetland hyd Hard clay 18		g must b	e present Hydric S	, unless disturbe	Very Shallow Dark Surface (TF12) Other (Explain in Remarks) ed or problematic. YesNo
_ Sandy R _ Stripped _ Dark Su estrictive I emarks:	d Matrix (S6) rface (S7) <b>(LRR R, M</b> of hydrophytic veg <b>.ayer (if observed):</b> Type: Depth (inches):	ILRA 14	<b>49B)</b> h and wetland hyd Hard clay 18		gy must b	Hydric S	, unless disturbe	Very Shallow Dark Surface (TF12) Other (Explain in Remarks) ed or problematic. Yes No
_ Sandy R _ Stripped _ Dark Su estrictive I emarks:	d Matrix (S6) rface (S7) <b>(LRR R, M</b> of hydrophytic veg <b>.ayer (if observed):</b> Type: Depth (inches):	ILRA 14	<b>49B)</b> <u>a and wetland hyd</u> <u>Hard clay</u> 18		gy must b	Hydric S	, unless disturbe	Very Shallow Dark Surface (TF12) Other (Explain in Remarks) ed or problematic. Yes No
_ Sandy R _ Stripped _ Dark Su hdicators estrictive I	d Matrix (S6) rface (S7) <b>(LRR R, M</b> of hydrophytic veg <b>.ayer (if observed):</b> Type: Depth (inches):	ILRA 14	<b>49B)</b> <u>a and wetland hyd</u> <u>Hard clay</u> 18	-	gy must b	Hydric S	, unless disturbe	Very Shallow Dark Surface (TF12) Other (Explain in Remarks) ed or problematic. Yes No

## Hydrology Photos



Soil Photos

Photo of Sample Plot East



Photo of Sample Plot West

# WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Riverside Solar City/County:				umont, Jeffe	rson		Sampling Date: 2020-June-02		
Applicant/Owner: G	eronimo				State: NY		Sampling Point: V	V-BTF-05_PEM-2	
Investigator(s): Brenner Fahrenz, Bridgette Rooney, Ben Popham Section, Township, Range:									
Landform (hillslope, te	rrace, etc.):	Depression		Local relief	(concave, convex,	none):	Concave	Slope (%): 0 to 1	
Subregion (LRR or MLF	RA): LRR R	1		Lat:	44.0701305422	Long:	-76.0785513862	Datum: WGS84	
Soil Map Unit Name:	Cp-Covingtor	n silty clay					NWI classific	ation:	
Are climatic/hydrologic	conditions on	the site typical fo	or this time of ye	ear?	Yes 🟒 No 🔄	(If no	o, explain in Remar	·ks.)	
Are Vegetation,	Soil,	or Hydrology	_ significantly di	sturbed?	Are "Normal (	Tircums	tances" present?	Yes 🟒 No	
Are Vegetation,	Soil,	or Hydrology	_ naturally prob	lematic?	(If needed, ex	plain an	y answers in Rema	arks.)	

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

Hydrophytic Vegetation Present?	Yes 🟒 No		
Hydric Soil Present?	Yes 🟒 No	Is the Sampled Area within a Wetland?	Yes 🟒 No _
Wetland Hydrology Present?	Yes 🟒 No	If yes, optional Wetland Site ID:	W-BTF-05
Remarks: (Explain alternative procedures	s here or in a separate repo	rt)	
Covertype is PEM.			

#### HYDROLOGY

Wetland Hydrology Indicators:				
Primary Indicators (minimum of or	ne is required; check all	<u>that apply)</u>		Secondary Indicators (minimum of two required)
Surface Water (A1) High Water Table (A2) _✔ Saturation (A3) Water Marks (B1) Sediment Deposits (B2)	Water Aquat Marl I Hydro Oxidiz	-Stained Leaves (B9) ic Fauna (B13) Deposits (B15) gen Sulfide Odor (C1) red Rhizospheres on Living	Roots (C3)	<ul> <li>Surface Soil Cracks (B6)</li> <li>Drainage Patterns (B10)</li> <li>Moss Trim Lines (B16)</li> <li>Dry-Season Water Table (C2)</li> <li>Crayfish Burrows (C8)</li> <li>Saturation Visible on Aerial Imagery (C9)</li> </ul>
<ul> <li> Drift Deposits (B3)</li> <li> Algal Mat or Crust (B4)</li> <li> Iron Deposits (B5)</li> <li> Inundation Visible on Aerial Im</li> <li> Sparsely Vegetated Concave Summary Su</li></ul>	Presei Recen Thin N agery (B7) Other ırface (B8)	nce of Reduced Iron (C4) It Iron Reduction in Tilled So Juck Surface (C7) (Explain in Remarks)	oils (C6)	<ul> <li>Stunted or Stressed Plants (D1)</li> <li>Geomorphic Position (D2)</li> <li>Shallow Aquitard (D3)</li> <li>Microtopographic Relief (D4)</li> <li>FAC-Neutral Test (D5)</li> </ul>
Field Observations:				
Surface Water Present?	Yes No 🟒	Depth (inches):		
Water Table Present?	Yes 🟒 No	Depth (inches):	16	Wetland Hydrology Present? Yes No
Saturation Present?	Yes 🟒 No	Depth (inches):	7	
(includes capillary fringe)				
Describe Recorded Data (stream g	auge, monitoring well, a	aerial photos, previous insp	ections), if	available:

Sampling Point: W-BTF-05\_PEM-2

<u>Tree Stratum</u> (Plot size: <u>30 ft</u> )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksh Number of Dominant S	eet: pecies That	F	(4)
1. <i>Quercus bicolor</i>	15	Yes	FACW	Are OBL, FACW, or FAC:		5	(A)
2.			-	Total Number of Domin	ant Species	5	(P)
3.		· ·		Across All Strata:			(D)
4.		· ·		Percent of Dominant Sp	ecies That	100	(A/B)
5				Are OBL, FACW, or FAC:			(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
6		·		<ul> <li>Prevalence Index works</li> </ul>	heet:		
7		·		- <u>Total % Cover o</u>	<u>of:</u>	<u>Multiply</u>	<u>By:</u>
7	15	- Total Cov	or	- OBL species	5	x 1 =	5
Capita a (Church Strature (Diataine) 15 ft	15	- 10tal COV	er	FACW species	100	x 2 =	200
<u>Sapling/Shrub Stratum</u> (Piot size: <u>15 it</u> )	-	Vee		FAC species	5	x 3 =	15
1. Viburnum nudum var. cassinoides	5	res	FACW	- FACU species	0	x 4 =	0
2. Cornus racemosa	5	Yes	FAC	- UPL species	0	x 5 =	0
3		·		- Column Totals	110	(A)	220 (B)
4.		·		Prevalence In	dex = B/A =	2	
5				Hydronhytic Vegetation	Indicators:		
6				1- Rapid Test for H	vdronhytic \	/egetation	1
7				- 2 - Dominance Tes	t is >50%	egetation	I
	10	= Total Cov	er	2 Dominance res	$x = x = x^{-1}$		
<u>Herb Stratum</u> (Plot size: <u>5 ft</u> )				4 - Morphological	Adantations	1 (Provide	supporting
1. <i>Onoclea sensibilis</i>	30	Yes	FACW	- data in Remarks or on a	separate sh	(Frovide neet)	Supporting
2. <i>Impatiens capensis</i>	30	Yes	FACW	Problematic Hydro	onhytic Vege	tation <sup>1</sup> (F)	(plain)
3. <i>Phalaris arundinacea</i>	15	No	FACW	<sup>1</sup> Indicators of hydric soi	l and wetlan	d hydrolo	gy must be
4. <i>Carex crinita</i>	5	No	OBL	present, unless disturbe	ed or proble	matic	6) mase se
5. Equisetum pratense	5	No	FACW	Definitions of Vegetation	n Strata:		
6.				Tree – Woody plants 3 in	n. (7.6 cm) oi	r more in	diameter at
7.		·		breast height (DBH), reg	ardless of h	eight.	
8.				Sapling/shrub - Woody	, plants less t	han 3 in. [	OBH and
9.				greater than or equal to	, 3.28 ft (1 m	) tall.	
10		· ·		Herb – All herbaceous (	non-woody)	plants, re	gardless of
11		·		size, and woody plants l	ess than 3.2	8 ft tall.	-
12		·		Woody vines – All wood	y vines great	ter than 3	.28 ft in
12		- Total Cov	or	height.			
Mandu Mine Streture (Districts - 20 ft - )		- 10tal COV	er	Hydrophytic Vegetation	Present?	res 🖌 N	lo
woody vine stratum (Piot size: <u>30 it</u> )	0			, , , , , , , , , , , , , , , , , , ,			·
l	0	·		-			
2.		·		-			
<u>ح</u>		·		-			
4		·		-			
	0	= Total Cov	er				
Remarks: (Include photo numbers here or on a sep	parate sheet.)						

SOIL

## Sampling Point: W-BTF-05\_PEM-2

			Kedox	k reat	ures	12	-		
nches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type <sup>1</sup>		Text	ure	Remarks
0-6	10YR 3/1	95	10YR 5/8	- 5	<u> </u>	PL	Silty Clay	/ Loam	
6 - 20	10YR 4/1	85	10YR 5/8	15	C		Cla	У	
						<u> </u>			
						<u> </u>			
				. —	<u>.</u>				
pe: C = C	Concentration, D =	Depleti	on, RM = Reduce	d Mat	rix, MS =	Masked San	d Grains. <sup>2</sup> Lo	ocation: PL = Por	e Lining, M = Matrix.
Iric Soil	Indicators:							Indicators for P	roblematic Hydric Soils <sup>3</sup> :
Histosol	I (A1)		Polyvalue Be	elow S	Surface (S	8) (LRR R, MI	.KA 149B)	2 cm Muck	(A10) <b>(LRR K, L, MLRA 149B)</b>
HISTIC Ep	Dipedon (A2)		I nin Dark St	urtace	(S9) <b>(LRR</b>	(R, MILKA 14) (IDD K I)	<b>9</b> B)	Coast Prairi	e Redox (A16) <b>(LRR K, L, R)</b>
Hydroge	en Sulfide (A4)			ed Ma	trix (F2)	(LKK K, L)		5 cm Mucky	Peat or Peat (S3) <b>(LRR K, L, R)</b>
Stratifie	d Lavers (A5)		Depleted Ma	atrix (	F3)			Dark Surfac	e (S7) <b>(LRR K, L)</b>
Deplete	d Below Dark Surfa	ace (A1	1)_✓ Redox Dark	Surfa	ce (F6)			Polyvalue B	elow Surface (S8) (LRR K, L)
Thick Da	ark Surface (A12)	,	Depleted Da	ark Su	rface (F7)			Thin Dark S	urface (S9) (LRR K, L)
C			Redoy Depr	essior	ns (F8)			Iron-Manga	nese Masses (F12) (LRR K, L, R)
Sandy N	/lucky Mineral (S1)		Redux Depi						
Sandy N Sandy G	lucky Mineral (S1) Gleyed Matrix (S4)							Mesic Spod	ic (TA6) (MI DA 144A 145 149B)
Sandy N Sandy G Sandy R	Aucky Mineral (S1) Gleyed Matrix (S4) Redox (S5)							Mesic Spod	ic (TA6) <b>(MLRA 144A, 145, 149B)</b> Material (E21)
Sandy N Sandy G Sandy R Stripped	Aucky Mineral (S1) Gleyed Matrix (S4) Redox (S5) d Matrix (S6)							Mesic Spod Red Parent Verv Shalloy	ic (TA6) <b>(MLRA 1446, 1456)</b> Material (F21) w Dark Surface (TF12)
Sandy N Sandy G Sandy R Stripped Dark Su	Aucky Mineral (S1) Gleyed Matrix (S4) Redox (S5) d Matrix (S6) irface (S7) <b>(LRR R, M</b>	1LRA 14	19B)					Mesic Spod Red Parent Very Shallov Other (Expl	ic (TA6) <b>(MLRA 144A, 145, 149B)</b> Material (F21) w Dark Surface (TF12) ain in Remarks)
Sandy M Sandy G Sandy R Stripped Dark Su	Aucky Mineral (S1) Gleyed Matrix (S4) Redox (S5) d Matrix (S6) irface (S7) <b>(LRR R, N</b> of bydrophytic yog	ILRA 14	49B)	Irolog	y must be		loss disturbo	Mesic Spod Red Parent Very Shallor Other (Expl.	ic (TA6) <b>(MLRA 144A, 145, 149B)</b> Material (F21) w Dark Surface (TF12) ain in Remarks)
Sandy M Sandy G Sandy R Stripped Dark Su dicators	Aucky Mineral (S1) Gleyed Matrix (S4) Redox (S5) d Matrix (S6) Irface (S7) <b>(LRR R, N</b> <u>of hydrophytic veg</u>	ILRA 14 etation	49B)	Irolog	y must be	e present, ur I	less disturbe	Mesic Spod Mesic Spod Red Parent Very Shallon Other (Expl. d or problematic	ic (TA6) <b>(MLRA 144A, 145, 149B)</b> Material (F21) w Dark Surface (TF12) ain in Remarks)
Sandy M Sandy G Sandy R Stripped Dark Su dicators strictive I	Aucky Mineral (S1) Gleyed Matrix (S4) Redox (S5) d Matrix (S6) Irface (S7) <b>(LRR R, N</b> of hydrophytic veg Layer (if observed):	ILRA 14 etation	19B)	Irolog	y must be	e present, ur	less disturbe	Mesic Spod Red Parent Very Shallov Other (Expl.	ic (TA6) <b>(MLRA 144A, 145, 149B)</b> Material (F21) w Dark Surface (TF12) ain in Remarks)
Sandy M Sandy G Sandy R Stripped Dark Su dicators trictive I	Aucky Mineral (S1) Sleyed Matrix (S4) Redox (S5) d Matrix (S6) irface (S7) <b>(LRR R, M</b> of hydrophytic veg Layer (if observed): Type: Dopth (inches)	ILRA 14 etation	49B) and wetland hyd None	Irolog	y must be	e present, ur <b>Hydric Soil</b>	less disturbe Present?	Mesic Spod Red Parent Very Shallov Other (Expl.	ic (TA6) (MLRA 144A, 145, 149B) Material (F21) w Dark Surface (TF12) ain in Remarks)
Sandy N Sandy G Sandy R Stripped Dark Su licators trictive I	Aucky Mineral (S1) Sleyed Matrix (S4) Redox (S5) d Matrix (S6) Irface (S7) <b>(LRR R, M</b> of hydrophytic veg Layer (if observed): Type: Depth (inches):	ILRA 14 etation	49B) and wetland hyd None	Irolog	y must be	e present, ur Hydric Soil	less disturbe Present?	Mesic Spod Red Parent Very Shallov Other (Expl d or problematic	(TA6) (MLRA 144A, 145, 149B) Material (F21) w Dark Surface (TF12) ain in Remarks)
Sandy K Sandy G Sandy R Stripped Dark Su licators trictive I narks:	Aucky Mineral (S1) Sleyed Matrix (S4) Redox (S5) d Matrix (S6) Irface (S7) <b>(LRR R, M</b> of hydrophytic veg Layer (if observed): Type: Depth (inches):	ILRA 14 etation	49B) and wetland hyd	Irolog	y must be	e present, ur Hydric Soil	less disturbe Present?	Mesic Spod Red Parent Very Shallov Other (Expl. d or problematic	(TFP) (MLRA 1496) Material (F21) w Dark Surface (TF12) ain in Remarks) No
Sandy N Sandy C Sandy R Stripped Dark Su licators trictive I narks:	Aucky Mineral (S1) Gleyed Matrix (S4) Redox (S5) d Matrix (S6) rface (S7) <b>(LRR R, N</b> <u>of hydrophytic veg</u> Layer (if observed): Type: Depth (inches):	ILRA 14 etation	49B) and wetland hyc None	Irolog	y must b	e present, ur Hydric Soil	less disturbe Present?	Mesic Spod Red Parent Very Shallor Other (Expl. d or problematic	Idoupiant Sons (FF9) (MLRA 1496)         ic (TA6) (MLRA 144A, 145, 149B)         Material (F21)         v Dark Surface (TF12)         ain in Remarks)         .         Yes/_ No
Sandy N Sandy C Sandy R Stripped Dark Su licators trictive I narks:	Aucky Mineral (S1) Gleyed Matrix (S4) Redox (S5) d Matrix (S6) Irface (S7) <b>(LRR R, N</b> <u>of hydrophytic veg</u> Layer (if observed): Type: Depth (inches):	ILRA 14 etation	49B) and wetland hyc None	Irolog	y must bi	e present, ur Hydric Soil	less disturbe Present?	Mesic Spod Red Parent Very Shallor Other (Expl. d or problematic	Idouptain Sons (FF9) (MLRA 1496)         ic (TA6) (MLRA 144A, 145, 149B)         Material (F21)         v Dark Surface (TF12)         ain in Remarks)         .         Yes/ No
Sandy M Sandy G Sandy R Stripped Dark Su icators icators icators	Aucky Mineral (S1) Gleyed Matrix (S4) Redox (S5) d Matrix (S6) Irface (S7) <b>(LRR R, M</b> <u>of hydrophytic veg</u> Layer (if observed): Type: _Depth (inches):	ILRA 14 etation	49B) and wetland hyc None	Irolog 	y must bi	e present, ur Hydric Soil	less disturbe Present?	Mesic Spod Red Parent Very Shallov Other (Expl. d or problematic	ic (TA6) (MLRA 144A, 145, 149B) Material (F21) w Dark Surface (TF12) ain in Remarks)
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Soil Photos



Photo of Sample Plot North Photo of Sample Plot South



## WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Riverside Solar	City/County: Cha	umont, Jefferson	Sampling Date: 20	Sampling Date: 2020-June-03		
Applicant/Owner: Geronimo		State: NY	Sampling Point: W-B	TF-05_PEM-3		
Investigator(s): Brenner Fahrenz,	e:					
Landform (hillslope, terrace, etc.):	Depression	Local relief (concave, convex, no	one): Concave	Slope (%): 0 to 1		
Subregion (LRR or MLRA):	R	Lat: 44.0688040119 L	.ong: -76.0721097931	Datum: WGS84		
Soil Map Unit Name: CpCovingt	on silty clay		NWI classificatio	on:		
Are climatic/hydrologic conditions of	on the site typical for this time of ye	ar? Yes 🟒 No	(If no, explain in Remarks.)	)		
Are Vegetation, Soil,	or Hydrology significantly dis	sturbed? Are "Normal Circ	cumstances" present?	Yes No 🟒		
Are Vegetation, Soil,	or Hydrology naturally probl	ematic? (If needed, expla	in any answers in Remarks	5.)		

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

Hydrophytic Vegetation Present?	Yes 🟒 No		
Hydric Soil Present?	Yes 🟒 No	Is the Sampled Area within a Wetland?	Yes 🯒 No
Wetland Hydrology Present?	Yes 🟒 No	If yes, optional Wetland Site ID:	W-BTF-05
Remarks: (Explain alternative procedures h	ere or in a separate report	.)	
Covertype is PEM. ATV/ORV impacts observ	ed. Circumstances are not	normal due to agricultural activities.	

#### HYDROLOGY

Wetland Hydrology Indicators:				
Primary Indicators (minimum of or	ne is required; check all t	<u>hat apply)</u>		Secondary Indicators (minimum of two required)
Surface Water (A1) _✓ High Water Table (A2) _✓ Saturation (A3) Water Marks (B1) Sediment Deposits (B2)	Water- Aquati Marl D Hydrog _∕ Oxidize	Stained Leaves (B9) c Fauna (B13) eposits (B15) gen Sulfide Odor (C1) ed Rhizospheres on Living	g Roots (C3)	<ul> <li> Surface Soil Cracks (B6)</li> <li> Drainage Patterns (B10)</li> <li> Moss Trim Lines (B16)</li> <li> Dry-Season Water Table (C2)</li> <li> Crayfish Burrows (C8)</li> <li> Saturation Visible on Aerial Imagery (C9)</li> </ul>
Drift Deposits (B3)     Algal Mat or Crust (B4)     Iron Deposits (B5)     Inundation Visible on Aerial Im     Sparsely Vegetated Concave Su	Preser Recent Thin M agery (B7) Other ( rface (B8)	ice of Reduced Iron (C4) : Iron Reduction in Tilled S luck Surface (C7) (Explain in Remarks)	Soils (C6)	<ul> <li> Stunted or Stressed Plants (D1)</li> <li> Geomorphic Position (D2)</li> <li> Shallow Aquitard (D3)</li> <li> Microtopographic Relief (D4)</li> <li> FAC-Neutral Test (D5)</li> </ul>
Field Observations:				
Surface Water Present?	Yes No 🟒	Depth (inches):		_
Water Table Present?	Yes 🟒 No	Depth (inches):	12	Wetland Hydrology Present?   Yes No
Saturation Present?	Yes 🟒 No	Depth (inches):	10	
(includes capillary fringe)				
Describe Recorded Data (stream g	auge, monitoring well, a	erial photos, previous ins	pections), if	available:

Sampling Point: W-BTF-05\_PEM-3

Tree Stratum (Plot size: <u>30 ft</u> )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test works	<b>heet:</b> Species That	E	(4)
1. <i>Ulmus americana</i>	10	Yes	FACW	Are OBL, FACW, or FAC	:	5	(A)
2.			-	Total Number of Domi	nant Species	5	(B)
3.				Across All Strata:			
4.				Percent of Dominant S	pecies That	100	(A/B)
5				Prevalence Index worksheet:			
6				Total % Cover	of	Multinly	Bv:
7				OBL species	<u>01.</u> //5	v 1 =	<u>- Dy.</u> //5
	10	= Total Cov	er	FACW species	60	x 2 =	120
<u>Sapling/Shrub Stratum</u> (Plot size: <u>15 ft</u> )				FAC species	12	×3=	36
1. <i>Cornus racemosa</i>	8	Yes	FAC	EACLI species	0	× 4 -	0
2. Viburnum lentago	4	Yes	FAC	UPL species	0	x 4 - x 5 =	0
3				Column Totals	117	(A)	201 (B)
4				Prevalence Ir	dex = B/A =	1.7	201 (2)
5							· · · · ·
6				1- Rapid Test for H	-lydrophytic \	legetation	h
7					5000000000000000000000000000000000000	regetation	I
	12	= Total Cov	er	2 Dominance re	lev is $< 3.0^{1}$		
<u>Herb Stratum</u> (Plot size: <u>5 ft</u> )				4 - Mornhological	Adantations	1 (Provide	supporting
1. <i>Typha angustifolia</i>	45	Yes	OBL	- data in Remarks or on	a separate sh	neet)	Supporting
2. <i>Phalaris arundinacea</i>	20	Yes	FACW	Problematic Hydr	ophytic Vege	tation <sup>1</sup> (E)	(plain)
3. <i>Onoclea sensibilis</i>	15	No	FACW	<sup>1</sup> Indicators of hydric so	il and wetlan	d hydrolo	gy must be
4. Anemone canadensis	10	No	FACW	present, unless disturb	ed or proble	matic	05
5. <i>Equisetum palustre</i>	5	No	FACW	Definitions of Vegetation	on Strata:		
6				Tree – Woody plants 3	in. (7.6 cm) oi	r more in	diameter at
7				breast height (DBH), re	gardless of h	eight.	
8				Sapling/shrub - Woody	/ plants less t	han 3 in. I	OBH and
9				greater than or equal t	o 3.28 ft (1 m	) tall.	
10				Herb – All herbaceous	(non-woody)	plants, re	gardless of
11				size, and woody plants	less than 3.2	8 ft tall.	
12.				Woody vines – All wood	dy vines great	ter than 3	.28 ft in
	95	= Total Cov	er	neight.			
<u>Woody Vine Stratum</u> (Plot size: <u>30 ft</u> )		-		Hydrophytic Vegetatio	n Present?	res 🟒 N	No
1.	0						
2.							
3.							
4.							
	0	= Total Cov	er				
Domarka (Includo photo pumbaro haro ar an a success		-					
Remarks. (Include photo numbers here or on a separate	e sneet.)						
SOIL

Depth	Matrix		Redox	x Feat	ures			· · · · · · · · · · · · · · · · · · ·
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0 - 8	10YR 2/1	95	10YR 5/8	5	C	PL	Silt Loam	
8 - 16	10YR 3/1	90	10YR 5/8	10	С	PL	Silty Clay	
16 - 20	10YR 3/1	90	10YR 4/6	10	С	M		
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						<u> </u>		
ype: C = C	oncentration, D =	Deplet	ion, RM = Reduce	d Mat	rix, MS =	Masked Sand G	irains. <sup>2</sup> Lo	ocation: PL = Pore Lining, M = Matrix.
/dric Soil I	ndicators:							Indicators for Problematic Hydric Soils <sup>3</sup> :
_ Histosol	(A1)		Polyvalue B	elow S	Surface (S	58) <b>(LRR R, MLR</b> A	A 149B)	2 cm Muck (A10) <b>(LRR K, L, MLRA 149B)</b>
_ Histic Ep	ipedon (A2)		Thin Dark S	urface	(S9) <b>(LRF</b>	R R, MLRA 149B)		Coast Prairie Redox (A16) <b>(LRR K, L, R)</b>
_ Black His	stic (A3)		Loamy Muc	ky Mir	neral (F1)	(LRR K, L)		5 cm Mucky Peat or Peat (S3) <b>(LRR K, L, R)</b>
_ Hydroge	n Sulfide (A4)		Loamy Gley	ed Ma	trix (F2)			Dark Surface (S7) (LRR K, L)
_ Stratified	d Layers (A5) d Balaw Dark Surf		Depleted M	atrix (I	F3) co (E6)			Polyvalue Below Surface (S8) (LRR K, L)
_ Depieted	u Below Dark Suria	ace (Al	<ol> <li>Redox Dark</li> <li>Depleted D:</li> </ol>	Suria	Ce (F6) rface (E7)	N N		Thin Dark Surface (S9) (LRR K, L)
Sandy M	lucky Mineral (S1)		Depieteu Da	ark Su	11ace (F7)	)		Iron-Manganese Masses (F12) (LRR K, L, R)
Sandy G	loved Matrix (S4)			633101	15 (FO)			Piedmont Floodplain Soils (F19) (MLRA 149B)
Salicivia	leyeu Matrix (54)							Mesic Spodic (TA6) <b>(MLRA 144A, 145, 149B)</b>
Candy D								Red Parent Material (E21)
Sandy R	edox (S5)							
Sandy R Sandy R Stripped	edox (S5) l Matrix (S6) sface (S7) (L <b>PP P. A</b>		400)					Very Shallow Dark Surface (TF12)
Sandy R Sandy R Stripped Dark Sur	edox (S5) l Matrix (S6) rface (S7) <b>(LRR R, N</b>	ILRA 1	49B)					Very Shallow Dark Surface (TF12) Other (Explain in Remarks)
Sandy R Stripped Dark Sur ndicators c	edox (S5) l Matrix (S6) rface (S7) <b>(LRR R, N</b> of hydrophytic veg	<b>ILRA 1</b> etatior	<b>49B)</b> n and wetland hyc	drolog	y must b	e present, unles	s disturbe	Very Shallow Dark Surface (TF12) Other (Explain in Remarks) d or problematic.
Sandy R Stripped Dark Sui ndicators c estrictive L	edox (S5) l Matrix (S6) rface (S7) <b>(LRR R, N</b> of hydrophytic veg <b>.ayer (if observed)</b> :	ILRA 1	<b>49B)</b> 1 and wetland hyd	drolog	y must b	e present, unles	s disturbe	Very Shallow Dark Surface (TF12) Other (Explain in Remarks) d or problematic.
Sandy R Stripped Dark Sui ndicators c estrictive L	edox (S5) I Matrix (S6) rface (S7) <b>(LRR R, N</b> of hydrophytic veg <b>ayer (if observed):</b> Type:	ILRA 1	<b>49B)</b> and wetland hyd None	drolog	y must b	e present, unles	s disturbe sent?	Very Shallow Dark Surface (TF12) Other (Explain in Remarks) d or problematic. Yes _ ∠ No
Sandy R Stripped Dark Sui ndicators c estrictive L	edox (S5) l Matrix (S6) rface (S7) <b>(LRR R, N</b> <u>of hydrophytic veg</u> <b>ayer (if observed):</b> Type: Deoth (inches):	ILRA 1	<b>49B)</b> n and wetland hyd None	drolog	y must b	e present, unles	s disturbe sent?	Very Shallow Dark Surface (TF12) Other (Explain in Remarks) d or problematic. Yes No
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Sandy R Stripped Dark Sui ndicators c estrictive L	edox (S5) I Matrix (S6) rface (S7) <b>(LRR R, N</b> of hydrophytic veg <b>ayer (if observed):</b> Type: Depth (inches):	ILRA 1	<b>49B)</b> n and wetland hyd None	drolog	y must b	e present, unles	esent?	Very Shallow Dark Surface (TF12) Other (Explain in Remarks) d or problematic. Yes No
Sandy R Stripped Dark Sui estrictive L	edox (S5) l Matrix (S6) rface (S7) <b>(LRR R, N</b> of hydrophytic veg <b>ayer (if observed):</b> Type: Depth (inches):	ILRA 1	<b>49B)</b> n and wetland hyd None	drolog 	y must b	e present, unles	ss disturbe esent?	Very Shallow Dark Surface (TF12) Other (Explain in Remarks) d or problematic. Yes No
Sandy R Stripped Dark Sun estrictive L	edox (S5) l Matrix (S6) rface (S7) <b>(LRR R, N</b> <u>of hydrophytic veg</u> <b>.ayer (if observed):</b> Type: Depth (inches):	ILRA 1	<b>49B)</b> n and wetland hyd None	drolog -	y must b	e present, unles	esent?	Very Shallow Dark Surface (TF12) Other (Explain in Remarks) d or problematic. Yes No
Sandy R Strippec Dark Sui estrictive L	edox (S5) l Matrix (S6) rface (S7) <b>(LRR R, N</b> <u>of hydrophytic veg</u> <b>.ayer (if observed):</b> Type: Depth (inches):	ILRA 1	<b>49B)</b> n and wetland hyd None	drolog 	y must b	e present, unles	esent?	Very Shallow Dark Surface (TF12) Other (Explain in Remarks) d or problematic. Yes No
Sandy R Strippec Dark Sun endicators of estrictive L	edox (S5) l Matrix (S6) rface (S7) <b>(LRR R, N</b> <u>of hydrophytic veg</u> <b>.ayer (if observed):</b> Type: Depth (inches):	ILRA 1	<b>49B)</b> n and wetland hyd None	drolog -	y must b	e present, unles	esent?	Very Shallow Dark Surface (TF12) Other (Explain in Remarks) d or problematic. YesNo
Sandy R Strippec Dark Sun estrictive L	edox (S5) l Matrix (S6) rface (S7) <b>(LRR R, N</b> <u>of hydrophytic veg</u> <b>.ayer (if observed):</b> Type: Depth (inches):	ILRA 1	<b>49B)</b> n and wetland hyd None	drolog -	y must b	e present, unles	esent?	Very Shallow Dark Surface (TF12) Other (Explain in Remarks) d or problematic. YesNo
Sandy R Strippec Dark Sun endicators c estrictive L	edox (S5) I Matrix (S6) rface (S7) <b>(LRR R, M</b> of hydrophytic veg <b>.ayer (if observed):</b> Type: Depth (inches):	ILRA 1	<b>49B)</b> n and wetland hyd None	drolog -	y must b	e present, unles	ss disturbe	Very Shallow Dark Surface (TF12) Other (Explain in Remarks) d or problematic. YesNo
Sandy R Strippec Dark Sun ndicators c estrictive L	edox (S5) I Matrix (S6) rface (S7) <b>(LRR R, N</b> of hydrophytic veg <b>.ayer (if observed):</b> Type: Depth (inches):	ILRA 1	<b>49B)</b> n and wetland hyd None	drolog -	y must b	e present, unles	ss disturbe	Very Shallow Dark Surface (TF12) Other (Explain in Remarks) d or problematic. YesNo
Sandy R Strippec Dark Sun estrictive L	edox (S5) I Matrix (S6) rface (S7) <b>(LRR R, N</b> of hydrophytic veg <b>.ayer (if observed):</b> Type: Depth (inches):	ILRA 1	<b>49B)</b> n and wetland hyd None	drolog	y must b	e present, unles	ss disturbe	Very Shallow Dark Surface (TF12) Other (Explain in Remarks) d or problematic. YesNo
Sandy R Strippec Dark Sun ndicators of estrictive L	edox (S5) I Matrix (S6) rface (S7) <b>(LRR R, N</b> <u>of hydrophytic veg</u> <b>.ayer (if observed):</b> Type: Depth (inches):	ILRA 1	<b>49B)</b> n and wetland hyd None	-	y must b	e present, unles	ss disturbe	Very Shallow Dark Surface (TF12) Other (Explain in Remarks) d or problematic. YesNo
Sandy R Strippec Dark Sun ndicators c estrictive L	edox (S5) I Matrix (S6) rface (S7) <b>(LRR R, N</b> of hydrophytic veg <b>ayer (if observed):</b> Type: Depth (inches):	ILRA 1	<b>49B)</b> n and wetland hyd None	-	y must b	e present, unles	ss disturbe	Very Shallow Dark Surface (TF12) Other (Explain in Remarks) d or problematic. YesNo
Sandy R Strippec Dark Sun ndicators c estrictive L	edox (S5) I Matrix (S6) rface (S7) <b>(LRR R, N</b> of hydrophytic veg <b>ayer (if observed):</b> Type: Depth (inches):	ILRA 1	<b>49B)</b> n and wetland hyd None	-	y must b	e present, unles	ss disturbe	Very Shallow Dark Surface (TF12) Other (Explain in Remarks) d or problematic. YesNo
Sandy R Strippec Dark Sun ndicators c estrictive L	edox (S5) I Matrix (S6) rface (S7) <b>(LRR R, N</b> of hydrophytic veg <b>ayer (if observed):</b> Type: Depth (inches):	ILRA 1	<b>49B)</b> n and wetland hyd None	-	y must b	e present, unles	ss disturbe	Very Shallow Dark Surface (TF12) Other (Explain in Remarks) d or problematic. YesNo
Sandy R Strippec Dark Sui ndicators ( estrictive L emarks:	edox (S5) I Matrix (S6) rface (S7) <b>(LRR R, N</b> of hydrophytic veg <b>ayer (if observed):</b> Type: Depth (inches):	ILRA 1	49B) n and wetland hyd None	-	y must b	e present, unles	ss disturbe	Very Shallow Dark Surface (TF12) Other (Explain in Remarks) d or problematic. YesNo
Sandy R Strippec Dark Sui ndicators ( estrictive L  emarks:	edox (S5) I Matrix (S6) rface (S7) <b>(LRR R, N</b> of hydrophytic veg <b>ayer (if observed):</b> Type: Depth (inches):	ILRA 1	49B) n and wetland hyd None	- -	y must b	e present, unles	esent?	Very Shallow Dark Surface (TF12) Other (Explain in Remarks) d or problematic. YesNo
Sandy R Strippec Dark Sur estrictive L  emarks:	edox (S5) I Matrix (S6) rface (S7) <b>(LRR R, N</b> <u>of hydrophytic veg</u> <b>ayer (if observed):</b> Type: Depth (inches):	ILRA 1	49B) n and wetland hyd None	drolog	y must b	e present, unles	esent?	Very Shallow Dark Surface (TF12) Other (Explain in Remarks) d or problematic. YesNo
Sandy R Strippec Dark Sur ndicators c estrictive L 	edox (S5) I Matrix (S6) rface (S7) <b>(LRR R, N</b> <u>of hydrophytic veg</u> <b>ayer (if observed):</b> Type: Depth (inches):	ILRA 1	49B) n and wetland hyd None	drolog	y must b	e present, unles	ss disturbe	Very Shallow Dark Surface (TF12) Other (Explain in Remarks) d or problematic. YesNo
Sandy R Strippec Dark Sur estrictive L	edox (S5) I Matrix (S6) rface (S7) <b>(LRR R, N</b> <u>of hydrophytic veg</u> <b>ayer (if observed):</b> Type: Depth (inches):	ILRA 1	49B) n and wetland hyd None	drolog	y must b	e present, unles	esent?	Very Shallow Dark Surface (TF12) Other (Explain in Remarks) d or problematic. Yes _∠ No
Sandy R Strippec Dark Sur estrictive L	edox (S5) I Matrix (S6) rface (S7) <b>(LRR R, N</b> <u>of hydrophytic veg</u> <b>ayer (if observed):</b> Type: Depth (inches):		49B) n and wetland hyd None	drolog	y must b	e present, unles	esent?	Very Shallow Dark Surface (TF12) Other (Explain in Remarks) d or problematic. Yes _∠No

#### Soil Photos



Photo of Sample Plot North Photo of Sample Plot West



## WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Riverside	e Solar		City/County: Cha	aumont, Jeffe	rson		Sampling Date: 2020-Dec-17	
Applicant/Owner: G	ieronimo				State: NY		Sampling Point:	W-BTF-05_PEM-4
Investigator(s): Ryar	n Snow , Kevin	Bliss		Sect	ion, Township, Ra	nge:		
Landform (hillslope, te	errace, etc.):	Depression		Local relief	(concave, convex,	none):	Concave	Slope (%): 0 to 1
Subregion (LRR or MLF	RA): LRR I	र		Lat:	44.0697280598	Long:	-76.0744737542	Datum: WGS84
Soil Map Unit Name:							NWI classific	ation: None
Are climatic/hydrologie	c conditions or	the site typical	for this time of ye	ear?	Yes 🟒 No 🔄	(If no	o, explain in Rema	rks.)
Are Vegetation, Are Vegetation,	Soil, Soil,	or Hydrology or Hydrology	significantly di naturally prob	isturbed? plematic?	Are "Normal ( (If needed, ex	Circums plain an	tances" present? y answers in Rem	Yes 🟒 No arks.)

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

Hydrophytic Vegetation Present?	Yes 🟒 No		
Hydric Soil Present?	Yes 🟒 No	Is the Sampled Area within a Wetland?	Yes 🯒 No
Wetland Hydrology Present?	Yes No	If yes, optional Wetland Site ID:	W-BTF-05
Remarks: (Explain alternative procedures he	ere or in a separate report	)	
Covertype is PEM.			

## HYDROLOGY

Wetland Hydrology Indicators:						
Primary Indicators (minimum of o	ne is required; check all	<u>that apply)</u>		Secondary Indicators (minimum of two required)		
<ul> <li>Surface Water (A1)</li> <li>High Water Table (A2)</li> <li>Saturation (A3)</li> <li>Water Marks (B1)</li> <li>Sediment Deposits (B2)</li> <li>Drift Deposits (B3)</li> <li>Algal Mat or Crust (B4)</li> <li>Iron Deposits (B5)</li> <li>Inundation Visible on Aerial Im</li> <li>Sparsely Vegetated Concave Survival</li> </ul>	Water- Aquati Marl D Hydro Oxidiz Preser Recen Thin M hagery (B7) Other urface (B8)	-Stained Leaves (B9) ic Fauna (B13) Deposits (B15) gen Sulfide Odor (C1) ed Rhizospheres on Living R- nce of Reduced Iron (C4) t Iron Reduction in Tilled Soil Auck Surface (C7) (Explain in Remarks)	oots (C3) s (C6)	<ul> <li>Surface Soil Cracks (B6)</li> <li>Drainage Patterns (B10)</li> <li>Moss Trim Lines (B16)</li> <li>Dry-Season Water Table (C2)</li> <li>Crayfish Burrows (C8)</li> <li>Saturation Visible on Aerial Imagery (C9)</li> <li>Stunted or Stressed Plants (D1)</li> <li>Geomorphic Position (D2)</li> <li>Shallow Aquitard (D3)</li> <li>Microtopographic Relief (D4)</li> <li>FAC-Neutral Test (D5)</li> </ul>		
Field Observations:						
Surface Water Present?	Yes No 🟒	Depth (inches):				
Water Table Present?	Yes 🟒 No	Depth (inches):	10	Wetland Hydrology Present? Yes No		
Saturation Present?	Yes 🟒 No	Depth (inches):	8			
(includes capillary fringe)						
Describe Recorded Data (stream g	gauge, monitoring well, a	ierial photos, previous inspe	ctions), if	available:		

VEGETATION -- Use scientific names of plants.

Sampling Point: W-BTF-05\_PEM-4

Tree Stratum (Plot size: 20 ft.)	Absolute	Dominant	Indicator	Dominance Test works	heet:		
	% Cover	Species?	Status	Number of Dominant S	Species That	2	(A)
1				Are OBL, FACW, or FAC	:		
2				Total Number of Domi	nant Species	3	(B)
3				Across All Strata:			
4				Are OPL EACW or EAC	pecies i nat	66.7	(A/B)
5				Browslance Index work	choot:		
6				Total % Covor	of:	Multiphe	Dur
7.					<u>oi.</u>	<u>v 1 –</u>	<u>ру.</u> О
	0	= Total Cov	er	EACW species	50	× 2 -	100
Sapling/Shrub Stratum (Plot size: <u>15 ft</u> )		_		EAC species	40	×2- ×2-	120
1. Cornus racemosa	30	Yes	FAC	FAC species	40	× 3	60
2. Quercus macrocarpa	15	Yes	FACU		15	×4	00
3. Viburnum lentago	10	No	FAC	Calumara Tatala	0	x 5 = _	0
4.					105	(A) _	280 (B)
5.				Prevalence Ir	1dex = B/A =	2./	
6.				Hydrophytic Vegetation	n Indicators:		
7.				1- Rapid Test for H	Hydrophytic V	/egetation	l
	55	= Total Cov	er	2 - Dominance Te	st is >50%		
Herb Stratum (Plot size: 5 ft )		_		3 - Prevalence Inc	lex is $\leq 3.0^1$		
1. Phalaris arundinacea	50	Yes	FACW	4 - Morphological	Adaptations	<sup>1</sup> (Provide	supporting
2.			_	data in Remarks or on	a separate sh	ieet)	
3.				Problematic Hydr	ophytic Vege	tation' (Ex	(plain)
<u> </u>				Indicators of hydric so	and wetlan	d hydrolog	gy must be
5				present, unless disturb		Hatic	
6					in (7.6 cm) or	, moro in ,	diameter at
7				hreast height (DBH) re	ardless of h	niore in o Aight	ulameter at
, 8			,	Sanling/shruh - Woody	v nlants less ti	han 3 in T	)BH and
0				greater than or equal t	o 3.28 ft (1 m	) tall.	birtana
10			,	Herb – All herbaceous	(non-woodv)	plants, reg	zardless of
11				size, and woody plants	less than 3.2	8 ft tall.	<b>J</b>
12				Woody vines – All wood	dy vines great	ter than 3.	.28 ft in
12		- Total Cov		height.			
Mander Vine Christian (Distring) 20 ft	50	_ 10tal COV	er	Hvdrophytic Vegetatio	n Present?	res 🖌 N	10
<u>woody vine stratum</u> (Piot size: <u>30 it</u> )				, , , , , , , , , , , , , , , , , , ,			
1							
2.							
3							
4							
	0	= lotal Cov	er				
Remarks: (Include photo numbers here or on a separa	ate sheet.)						

SOIL

	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Textu	re Remarks
0 - 6	7.5YR 3/2	100					Silty Clay	Loam
5 - 18	7.5YR 3/2	90	7.5YR 5/6	10	C		Clay Lo	am
		·						
		·						
		·		. <u> </u>				
pe: C = C	Concentration, D =	Depletic	on, RM = Reducec	Mat	rix, MS =	Masked San	Grains. <sup>2</sup> Lo	cation: PL = Pore Lining, M = Matrix.
dric Soil	Indicators:							Indicators for Problematic Hydric Soils <sup>3</sup> :
Histic Ef Black Hi Hydroge Stratifie Deplete Thick Da Sandy N Sandy C Sandy R Stripped Dark Su	istic (A3) en Sulfide (A4) d Layers (A5) d Below Dark Surf ark Surface (A12) Aucky Mineral (S1) Sleyed Matrix (S4) Redox (S5) d Matrix (S6) rface (S7) <b>(LRR R, 1</b>	ace (A11 MLRA 14	<ul> <li> Initr Dark Su</li> <li> Loamy Muck</li> <li> Depleted Ma</li> <li>) ✓ Redox Dark Su</li> <li> Depleted Da</li> <li> Redox Deprese</li> </ul>	y Min d Ma trix (f Surfac rk Sur essior	(59) (LRR (eral (F1) ( trix (F2) -3) ce (F6) rface (F7) ns (F8)	(LRR K, L)	6)	<ul> <li>Coast Prairie Redox (A16) (LRR K, L, R)</li> <li>5 cm Mucky Peat or Peat (S3) (LRR K, L, R)</li> <li>Dark Surface (S7) (LRR K, L)</li> <li>Polyvalue Below Surface (S8) (LRR K, L)</li> <li>Thin Dark Surface (S9) (LRR K, L)</li> <li>Iron-Manganese Masses (F12) (LRR K, L, R)</li> <li>Piedmont Floodplain Soils (F19) (MLRA 149B)</li> <li>Mesic Spodic (TA6) (MLRA 144A, 145, 149B)</li> <li>Red Parent Material (F21)</li> <li>Very Shallow Dark Surface (TF12)</li> <li>Other (Explain in Remarks)</li> </ul>
dicators	of hydrophytic veg	getation	and wetland hyd	rolog	y must be	e present, un	less disturbec	or problematic.
	Layer (if observed)	:	None			Hydric Soil	Present?	Yes No
strictive l	Туре:							
strictive I	Type: Depth (inches):							

Hydrology Photos



Vegetation Photos

#### Soil Photos



Photo of Sample Plot North Photo of Sample Plot East



Photo of Sample Plot South Photo of Sample Plot West



## WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Riverside	Solar		City/County: Chaumont, Jefferson				Sampling Date: 2020-Dec-17		
Applicant/Owner: G	eronimo		State: NY				Sampling Point: W-BTF-05_PEM-5		
Investigator(s): Ryar	n Snow , Kevin	Bliss		Sect	ion, Township, Ra	nge:			
Landform (hillslope, te	rrace, etc.):	Flat	Loca	al relief	(concave, convex,	none):	Concave	Slope (%): 1	to 3
Subregion (LRR or MLF	RA): LRR F	R		Lat:	44.0722055563	Long:	-76.0729134612	Datum: WGS	84
Soil Map Unit Name:	Covington Sil	ty Clay, Cp					NWI classifica	ation: PEM	
Are climatic/hydrologic	c conditions on	the site typical	for this time of year?		Yes 🟒 No 🔄	(If no	, explain in Remar	·ks.)	
Are Vegetation, Are Vegetation,	Soil, Soil,	or Hydrology or Hydrology	significantly disturb naturally problema	oed? itic?	Are "Normal ( (If needed, ex	Circums plain an	tances" present? y answers in Rema	Yes 🟒 No arks.)	—

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

Hydrophytic Vegetation Present?	Yes 🟒 No		
Hydric Soil Present?	Yes 🟒 No	Is the Sampled Area within a Wetland?	Yes 🟒 No
Wetland Hydrology Present?	Yes 🟒 No	If yes, optional Wetland Site ID:	W-BTF-05
Remarks: (Explain alternative procedur	es here or in a separate rep	ort)	
Covertype is PEM.			

#### HYDROLOGY

Wetland Hydrology Indicators:						
Primary Indicators (minimum of or	e is required; check all that	<u>at apply)</u>		Secondary Indicators (minimum of two required)		
<ul> <li>Surface Water (A1)</li> <li>High Water Table (A2)</li> <li>Saturation (A3)</li> <li>Water Marks (B1)</li> <li>Sediment Deposits (B2)</li> <li>Drift Deposits (B3)</li> <li>Algal Mat or Crust (B4)</li> <li>Iron Deposits (B5)</li> <li>Inundation Visible on Aerial Ima</li> <li>Sparsely Vegetated Concave Su</li> </ul>	Water-St Aquatic F Marl Dep Hydroge Oxidized Presence Recent Ir Thin Muc agery (B7) Other (Ex rface (B8)	ained Leaves (B9) Fauna (B13) posits (B15) n Sulfide Odor (C1) Rhizospheres on Living Roc e of Reduced Iron (C4) ron Reduction in Tilled Soils ck Surface (C7) kplain in Remarks)	ots (C3) (C6)	<ul> <li>Surface Soil Cracks (B6)</li> <li>Drainage Patterns (B10)</li> <li>Moss Trim Lines (B16)</li> <li>Dry-Season Water Table (C2)</li> <li>Crayfish Burrows (C8)</li> <li>Saturation Visible on Aerial Imagery (C9)</li> <li>Stunted or Stressed Plants (D1)</li> <li>Geomorphic Position (D2)</li> <li>Shallow Aquitard (D3)</li> <li>Microtopographic Relief (D4)</li> <li>FAC-Neutral Test (D5)</li> </ul>		
Field Observations:						
Surface Water Present?	Yes 🟒 No	Depth (inches):	0	_		
Water Table Present?	Yes No 🟒	Depth (inches):		Wetland Hydrology Present? Yes No		
Saturation Present?	Yes 🟒 No	Depth (inches):	0			
(includes capillary fringe)						
Describe Recorded Data (stream g	auge, monitoring well, aeri	ial photos, previous inspect	ions), if	available:		
Remarks:						
Saturation assumed, ground frozer	۱.					

VEGETATION -- Use scientific names of plants.

Sampling Point: W-BTF-05\_PEM-5

Trop Stratum (Blot cize: 20 ft )	Absolute	Dominant	Indicator	Dominance Test workshe	et:		
	% Cover	Species?	Status	Number of Dominant Spe	ecies That	1	(A)
1				Are OBL, FACW, or FAC:			
2.				Total Number of Domina	nt Species	1	(B)
3.				Across All Strata:			
4.				Percent of Dominant Spe	cies That	100	(A/B)
5.				Are OBL, FACW, or FAC:			
6.				Prevalence Index worksh	eet:		-
7.				Iotal % Cover of	······································	Multiply	<u>By:</u>
	0	= Total Cove	er		0	x I =	0
Sapling/Shrub Stratum (Plot size: <u>15 ft</u> )		-		FACW species	100	x 2 =	200
1.				FAC species	0	x 3 = _	0
2.				FACU species	0	x 4 =	0
3.					0	x 5 = -	0
4.					100	(A)	200 (B)
5.				Prevalence Inde	ex = B/A =		
6.				Hydrophytic Vegetation I	ndicators:		
7.				1- Rapid Test for Hy	drophytic \	/egetatior	ו
	0	= Total Cove	er	2 - Dominance Test	is >50%		
Herb Stratum (Plot size: 5 ft )		_		3 - Prevalence Index	$is \leq 3.0^1$		
1. Phalaris arundinacea	100	Yes	FACW	4 - Morphological A	daptations	<sup>1</sup> (Provide	supporting
2.				data in Remarks or on a s	separate sr	ieet)	(m   m i m )
3.				Problematic Hydrop	onytic vege	d bydrolo	kpiain) gu must bo
4.				nesent unless disturbed		a nyarolo matic	gy must be
5.				Definitions of Vegetation	Strata.	matic	
6.				Tree - Woody plants 3 in	(7.6  cm) or	r more in	diameter at
7.				breast height (DBH), rega	rdless of h	eight.	
8.				Sapling/shrub - Woody p	lants less t	han 3 in. I	DBH and
9.				greater than or equal to 3	3.28 ft (1 m	) tall.	
10.				Herb – All herbaceous (no	on-woody)	plants, re	gardless of
11.				size, and woody plants le	ss than 3.2	8 ft tall.	
12.				Woody vines - All woody	vines grea	ter than 3	.28 ft in
	100	= Total Cove	er	height.			
Woody Vine Stratum (Plot size: <u>30 ft</u> )		-		Hydrophytic Vegetation	Present?	res 🟒 🛚 🖌	No
1.							
2.							
3.							
4.							
	0	= Total Cove	er				
Pemarks: (Include photo numbers here or on a separat	a sheet )	_					
Remarks. (include proto numbers here of on a separat	e sneet.j						

SOIL

	 		Type <sup>1</sup> Loc <sup>2</sup> Tex	xture Remarks
De: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. <sup>2</sup> Location: PL = Pore Lining, M = Matrix.         Iric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>2</sup> :         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, MLRA 149B)         Histic Epipedon (A2)       Thin Dark Surface (S9) (LRR R, MLRA 149B)         Black Histic (A3)       Loamy Mucky Mineral (F1) (LRR K, L)         Hydrogen Sulfide (A4)       Loamy Gleyed Matrix (F2)         Depleted Below Dark Surface (F6)       Thin Dark Surface (F6)         Thick Dark Surface (A11)       Redox Depressions (F8)         Sandy Mucky Mineral (S1)       Redox Depressions (F8)         Sandy Redox (S5)       Depleted Matrix (S6)         Stripped Matrix (S6)       Wers Surface (T6) (LRR K, L)         Dark Surface (S7) (LRR R, MLRA 149B)       Mesic Spodic (TA6) (MLRA 144, 145, 144         Sandy Mucky Mineral (S1)       Redox Depressions (F8)         Sandy Redox (S5)       Depleted Matrix (S6)       Peidymont Filoodplain Soils (F19) (MLRA 144, 145, 144         Sandy Mucky Surface (S7) (LRR K, IL)       Very Shallow Dark Surface (TF12)       Very Shallow Dark Surface (TF12)         Dark Surface (S7) (LRR R, MLRA 149B)       Very Shallow Dark Surface (TF12)       Very Shallow Dark Surface (TF12)	·			
mining       minining       mining       mining				
me: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. <sup>2</sup> Location: PL = Pore Lining, M = Matrix.         ric Soil Indicators:       Indicators for Problematic Hydric Soils?:         tistosol (A1)       Polyvalue Below Surface (S8) (LRR R, MLRA 149B)         Histic Epipedon (A2)       Thin Dark Surface (S9) (LRR R, MLRA 149B)         Jack Histic (A3)       Loamy Mucky Mineral (F1) (LRR K, L)         Hydrogen Sulfide (A4)       Loamy Gleyed Matrix (F2)         Depleted Below Dark Surface (A12)       Depleted Dark Surface (F6)         Thick Dark Surface (A12)       Depleted Dark Surface (F7)         Sandy Mucky Mineral (S1)       Redox Depressions (F8)         Sandy Gleyed Matrix (S4)       Redox Depressions (F8)         Stripped Matrix (S6)       Peidmont Floodplain Soils (F12) (MLRA 144B)         Dark Surface (S7) (LRR R, MLRA 149B)       Wery Shallow Dark Surface (TF12)         Stripped Matrix (S6)       Cotter (Explain in Remarks)				
e: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. <sup>2</sup> Location: PL = Pore Lining, M = Matrix.         ric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>2</sup> :         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, MLRA 149B)         Histic Epipedon (A2)       Thin Dark Surface (S9) (LR R, MLRA 149B)         Jack Histic (A3)       Loamy Mucky Mineral (F1) (LRR K, L)         Hydrogen Sulfide (A4)       Loamy Gleyed Matrix (F2)         Popleted Below Dark Surface (A11)       Redox Dark Surface (F6)         Thick Dark Surface (A12)       Depleted Dark Surface (F7)         Jaady Mucky Mineral (S1)       Redox Depressions (F8)         Sandy Redox (S5)       Depleted Dark Surface (F7)         Stripped Matrix (S6)       Piedmont Floodplain Soils (F19) (MLRA 144A, 145, 144, 145, 144)         Sandy Redox (S5)       Mesic Spodic (TA6) (MLRA 144A, 145, 144)         Stripped Matrix (S6)       Very Shallow Dark Surface (TF12)         Dark Surface (S7) (LRR R, MLRA 149B)       Very Shallow Dark Surface (TF12)				
me: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. <sup>2</sup> Location: PL = Pore Lining, M = Matrix.         ric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, MLRA 149B)       2 cm Muck (A10) (LRR K, L, MLRA 149B)         Histic Epipedon (A2)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       Coast Prairie Redox (A16) (LRR K, L, R)         Hydrogen Sulfide (A4)       Loamy Mucky Mineral (F1) (LRR K, L)       5 cm Mucky Peat or Peat (S3) (LRR K, L)         Hydrogen Sulfide Layers (A5)       Depleted Matrix (F2)       Dark Surface (S7) (LRR K, L)         Depleted Below Dark Surface (A11)       Redox Dark Surface (F6)       Thin Dark Surface (S9) (LRR K, L)         Finick Dark Surface (A12)       Depleted Dark Surface (F7)       Iron-Manganese Masses (F12) (LRR K, L)         Sandy Gleyed Matrix (S4)       Redox Depressions (F8)       Piedmont Floodplain Soils (F19) (MLRA 144A, 145, 144         Sandy Redox (S5)       Red Parent Material (F21)       Very Shallow Dark Surface (TF12)         Stripped Matrix (S6)       Very Shallow Dark Surface (TF12)       Very Shallow Dark Surface (TF12)         Other (Explain in Remarks)       Very Shallow Dark Surface (TF12)       Very Shallow Dark Surface (TF12)				
e: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. <sup>2</sup> Location: PL = Pore Lining, M = Matrix.         ric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histic Spipedon (A2)       Thin Dark Surface (S9) (LRR R, MLRA 149B)         Black Histic (A3)       Loamy Mucky Mineral (F1) (LRR K, L)         Hydrogen Sulfide (A4)       Loamy Gleyed Matrix (F2)         Depleted Below Dark Surface (A11)       Redox Dark Surface (F6)         Thick Dark Surface (A12)       Depleted Dark Surface (F7)         Fick Sondy Gleyed Matrix (S4)       Redox Depressions (F8)         Sandy Redox (S5)       Redox Depressions (F8)         Stripped Matrix (S6)       Redox CS7) (LRR R, MLRA 149B)         Oark Surface (S7) (LRR R, MLRA 149B)       Weis Spodic (TA6) (MLRA 144A, 145, 145)         Stripped Matrix (S6)       Weis Spodic (TA6) (MLRA 144B)         Oark Surface (S7) (LRR R, MLRA 149B)       Weis Spodic (TA6) (MLRA 144A, 145, 145)				
we: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. <sup>2</sup> Location: PL = Pore Lining, M = Matrix.         ric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, MLRA 149B)         Histic Epipedon (A2)       Thin Dark Surface (S9) (LRR R, MLRA 149B)         Back Histic (A3)       Loamy Mucky Mineral (F1) (LRR K, L)         Hydrogen Sulfide (A4)       Loamy Gleyed Matrix (F2)         Stratified Layers (A5)       Depleted Matrix (F3)         Depleted Below Dark Surface (A11)       Redox Dark Surface (F6)         Thick Dark Surface (A12)       Depleted Dark Surface (F7)         Sandy Mucky Mineral (S1)       Redox Depressions (F8)         Sandy Gleyed Matrix (S4)       Mesic Spodic (TA6) (MLRA 1449B)         Sandy Redox (S5)       Mesic Spodic (TA6) (MLRA 1445, 145, 144, 145, 145, 144, 145, 145				
e: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains.       2Location: PL = Pore Lining, M = Matrix.         ric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         4istosol (A1)       Polyvalue Below Surface (S8) (LRR R, MLRA 149B)         4istosol (A2)       Thin Dark Surface (S9) (LRR R, MLRA 149B)         3lack Histic (A3)       Loamy Mucky Mineral (F1) (LRR K, L)         4ydrogen Sulfide (A4)       Loamy Gleyed Matrix (F2)         5 cm Mucky Peat or Peat (S3) (LRR K, L)         4ydrogen Sulfide (A4)       Depleted Matrix (F3)         Depleted Below Dark Surface (A11)       Redox Dark Surface (F6)         Thick Dark Surface (A12)       Depleted Dark Surface (F7)         Gandy Mucky Mineral (S1)       Redox Depressions (F8)         Sandy Gleyed Matrix (S4)       Mesic Spodic (TA6) (MLRA 1445, 145, 144         Gandy Redox (S5)       Red Parent Material (F21)         Stripped Matrix (S6)       Very Shallow Dark Surface (TF12)         Oark Surface (S7) (LRR R, MLRA 149B)       Very Shallow Dark Surface (TF12)         Orther (Explain in Remarks)       Very Shallow Dark Surface (TF12)				
e: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. Polyvalue Below Surface (S8) (LRR R, MLRA 149B) distic Epipedon (A2)Thin Dark Surface (S9) (LRR R, MLRA 149B) distic Epipedon (A2)Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3)Loamy Mucky Mineral (F1) (LRR K, L) Hydrogen Sulfide (A4)Loamy Gleyed Matrix (F2) Depleted Below Dark Surface (A11) Redox Dark Surface (F6) Thick Dark Surface (A12)Depleted Dark Surface (F7) Thick Dark Surface (A12)Depleted Dark Surface (F7) Sandy Mucky Mineral (S1)Redox Depressions (F8) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Dark Surface (S7) (LRR R, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Coast Prairie Redox (A16) (LRR K, L, R) S cm Mucky Peat or Peat (S3) (LRR K, L) Depleted Dark Surface (F7) Irion-Manganese Masses (F12) (LRR K, L) Nesic Spodic (TA6) (MLRA 144A, 145, 145 Red Parent Material (F21) Very Shallow Dark Surface (TF12) Other (Explain in Remarks)				
Indicators:Indicators for Problematic Hydric Soils <sup>3</sup> :Histosol (A1)Polyvalue Below Surface (S8) (LRR R, MLRA 149B)Histic Epipedon (A2)Thin Dark Surface (S9) (LRR R, MLRA 149B)Black Histic (A3)Loamy Mucky Mineral (F1) (LRR K, L)Hydrogen Sulfide (A4)Loamy Gleyed Matrix (F2)Hydrogen Sulfide (A4)Depleted Matrix (F3)Depleted Below Dark Surface (A11)Redox Dark Surface (F6)Chick Dark Surface (A12)Depleted Dark Surface (F7)Chick Dark Surface (S1)Redox Depressions (F8)Sandy Gleyed Matrix (S4)Mesic Spodic (TA6) (MLRA 144A, 145, 145)Sandy Redox (S5)Stripped Matrix (S6)Dark Surface (S7) (LRR R, MLRA 149B)Very Shallow Dark Surface (TF12)Dark Surface (S7) (LRR R, MLRA 149B)Very Shallow Dark Surface (TF12)Dark Surface (S7) (LRR R, MLRA 149B)Very Shallow Dark Surface (TF12)Dark Surface (S7) (LRR R, MLRA 149B)Very Shallow Dark Surface (TF12)Dark Surface (S7) (LRR R, MLRA 149B)Very Shallow Dark Surface (TF12)Dark Surface (S7) (LRR R, MLRA 149B)Very Shallow Dark Surface (TF12)Dark Surface (S7) (LRR R, MLRA 149B)Very Shallow Dark Surface (TF12)Dark Surface (S7) (LRR R, MLRA 149B)Very Shallow Dark Surface (TF12)Dark Surface (S7) (LRR R, MLRA 149B)Very Shallow Dark Surface (TF12)Very Shallow Dark Surface (S7) (LRR R, MLRA 149B)Very Shallow Dark Surface (TF12)Sandy Redox (S5)Very Shallow Dark Surface (TF12)Sandy Redox (S5)Very Shallow Dark Surface (TF12)Dark Surface (S7) (LRR R, MLRA 149B)Very Shallo	C = Concentration, D = Der	bletion, RM = Reduced Matr	ix, MS = Masked Sand Grai	ins. <sup>2</sup> Location: PL = Pore Lining, M = Matrix.
Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, MLRA 149B)         Histic Epipedon (A2)       Thin Dark Surface (S9) (LRR R, MLRA 149B)         Black Histic (A3)       Loamy Mucky Mineral (F1) (LRR K, L)         Hydrogen Sulfide (A4)       Loamy Gleyed Matrix (F2)         Stratified Layers (A5)       Depleted Matrix (F3)         Depleted Below Dark Surface (A11)       Redox Dark Surface (F6)         Thick Dark Surface (A12)       Depleted Dark Surface (F7)         Gandy Gleyed Matrix (S4)       Redox Depressions (F8)         Sandy Redox (S5)       Mesic Spodic (TA6) (MLRA 144A, 145, 149)         Gardy Redox (S5)       Mesic Spodic (TA6) (MLRA 144A, 145, 149)         Stripped Matrix (S6)       Oark Surface (S7) (LRR R, MLRA 149B)         Dark Surface (S7) (LRR R, MLRA 149B)       Very Shallow Dark Surface (TF12)         Oark Surface (S7) (LRR R, MLRA 149B)       Very Shallow Dark Surface (TF12)	Soil Indicators:			Indicators for Problematic Hydric Soils <sup>3</sup> :
Stratified Layers (A5)	:tosol (A1) ;tic Epipedon (A2) ick Histic (A3) drogen Sulfide (A4)	Polyvalue Below Su Thin Dark Surface Loamy Mucky Mine Loamy Gleved Mat	urface (S8) <b>(LRR R, MLRA 14</b> (S9) <b>(LRR R, MLRA 149B)</b> eral (F1) <b>(LRR K, L)</b> rix (F2)	49B)         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)
Depleted Below Dark Surface (A11) Redox Dark Surface (F6)       For Water Definition Canada (S0) (LRR W, D)         Thick Dark Surface (A12) Depleted Dark Surface (F7)       Thin Dark Surface (S9) (LRR K, L)         Sandy Mucky Mineral (S1) Redox Depressions (F8)       Piedmont Floodplain Soils (F12) (LRR K, L,         Sandy Gleyed Matrix (S4)       Mesic Spodic (TA6) (MLRA 144A, 145, 144)         Sandy Redox (S5)       Red Parent Material (F21)         Stripped Matrix (S6)       Very Shallow Dark Surface (TF12)         Dark Surface (S7) (LRR R, MLRA 149B)       Other (Explain in Remarks)	atified Layers (A5)	Depleted Matrix (F	3)	Dark Surface (S7) <b>(LRR K, L)</b> Polyvalue Below Surface (S8) <b>(LRR K, L)</b>
Mick Dark sufface (AT2)	pleted Below Dark Surface	(A11) Redox Dark Surfac	e (F6) face (F7)	Thin Dark Surface (S9) (LRR K, L)
Sandy Gleyed Matrix (S4)       Piedmont Floodplain Soils (F19) (MLRA 1         Sandy Redox (S5)       Mesic Spodic (TA6) (MLRA 144A, 145, 144)         Stripped Matrix (S6)       Red Parent Material (F21)         Dark Surface (S7) (LRR R, MLRA 149B)       Other (Explain in Remarks)	ndy Mucky Mineral (S1)	Redox Depression	s (F8)	Iron-Manganese Masses (F12) (LRR K, L, R)
Sandy Redox (S5)       Red Parent Material (F21)         Stripped Matrix (S6)       Very Shallow Dark Surface (TF12)         Dark Surface (S7) (LRR R, MLRA 149B)       Other (Explain in Remarks)	ndy Gleyed Matrix (S4)			Piedmont Floodplain Soils (F19) (MLRA 149B) Mesic Spodic (TA6) (MLRA 144A 145 149B)
Stripped Matrix (S6)       Very Shallow Dark Surface (TF12)         Dark Surface (S7) (LRR R, MLRA 149B)       Other (Explain in Remarks)	ndy Redox (S5)			Red Parent Material (F21)
	ipped Matrix (S6) irk Surface (S7) <b>(LRR R, MLR</b> ,	A 149B)		Very Shallow Dark Surface (TF12) ∕_ Other (Explain in Remarks)
icators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.	ators of hydrophytic vegeta	tion and wetland hydrology	must be present, unless d	disturbed or problematic.
rictive Layer (if observed):	tive Layer (if observed):			
Type: None Hydric Soil Present? Yes _∠_ No	Type:	None	Hydric Soil Prese	nt? Yes 🧹 No
Depth (inches):	Depth (inches):			

Vegetation Photos



Photo of Sample Plot North



Photo of Sample Plot East



Photo of Sample Plot South Photo of Sample Plot West



# WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Riverside	Project/Site: Riverside Solar City/County:					Sampling Date: 2020-June-02		
Applicant/Owner: G	eronimo			State: NY		Sampling Point: W	-BTF-05_PFO-1	
Investigator(s): Bren	iner Fahrenz, B	ridgette Rooney, Ben Popham	Sec	tion, Township, Ra	inge:			
Landform (hillslope, te	rrace, etc.):	Swamp	Local relief	(concave, convex,	, none):	Concave	Slope (%): 0 to 1	
Subregion (LRR or MLF	RA): LRR R		Lat:	44.0764304738	Long:	-76.0654211957	Datum: WGS84	
Soil Map Unit Name:	CpCovingtor	n silty clay				NWI classifica	tion:	
Are climatic/hydrologic	conditions on	the site typical for this time o	f year?	Yes 🟒 No 🔄	(If no	o, explain in Remark	(S.)	
Are Vegetation, Are Vegetation,	Soil,   c Soil,   c	or Hydrology 🟒 significantly or Hydrology naturally pr	y disturbed? roblematic?	Are "Normal ( (If needed, ex	Circums plain ar	tances" present? y answers in Rema	Yes No 🟒 rks.)	

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

Hydrophytic Vegetation Present?	Yes 🟒 No		
Hydric Soil Present?	Yes 🟒 No	Is the Sampled Area within a Wetland?	Yes 🯒 No
Wetland Hydrology Present?	Yes 🟒 No	If yes, optional Wetland Site ID:	W-BTF-05
Remarks: (Explain alternative procedures he	re or in a separate report	)	
Covertype is PFO. ATV/ORV impacts observe	d. Ditches/drain tiles obse	erved.	

#### HYDROLOGY

Primary Indicators (minimum of one is required; check all that apply)       Secondary Indicators (minimum of two required)	Primary Indicators (minimum of one is required; check all that apply)       Secondary Indicators (minimum of two required)	Primary Indicators (minimum of one is required; check all that apply)       Secondary Indicators (minimum of two required)	Wetland Hydrology Indicators:					
			Primary Indicators (minimum of	one is required; check all	that apply)		Secondary Indicators (minimum of	wo required)
Field Observations:   Surface Water Present?   Yes No   Depth (inches):   Water Table Present?   Yes No   Depth (inches):   12   Wetland Hydrology Present?   Yes No   Saturation Present?   Yes No   Depth (inches):   9   (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:	Field Observations:   Surface Water Present?   Yes No   Depth (inches):   Water Table Present?   Yes No   Depth (inches):   12   Wetland Hydrology Present?   Yes No   Saturation Present?   Yes No   Depth (inches):   9   (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:	Field Observations:   Surface Water Present?   Yes No   Depth (inches):   12   Wetland Hydrology Present?   Yes No   Depth (inches):   12   Saturation Present?   Yes No   Depth (inches):   9   (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:	<ul> <li>Surface Water (A1)</li> <li>High Water Table (A2)</li> <li>Saturation (A3)</li> <li>Water Marks (B1)</li> <li>Sediment Deposits (B2)</li> <li>Drift Deposits (B3)</li> <li>Algal Mat or Crust (B4)</li> <li>Iron Deposits (B5)</li> <li>Inundation Visible on Aerial In Sparsely Vegetated Concave 5</li> </ul>	Water Aquar Marl I Hydro Oxidi: Prese Recer Thin I magery (B7) Other Surface (B8)	r-Stained Leaves (B9) tic Fauna (B13) Deposits (B15) ogen Sulfide Odor (C1) zed Rhizospheres on Livin ence of Reduced Iron (C4) nt Iron Reduction in Tilled Muck Surface (C7) r (Explain in Remarks)	g Roots (C3) Soils (C6)	<ul> <li>Surface Soil Cracks (B6)</li> <li>Drainage Patterns (B10)</li> <li>Moss Trim Lines (B16)</li> <li>Dry-Season Water Table (C2)</li> <li>Crayfish Burrows (C8)</li> <li>Saturation Visible on Aerial Image</li> <li>Stunted or Stressed Plants (D1)</li> <li>Geomorphic Position (D2)</li> <li>Shallow Aquitard (D3)</li> <li>Microtopographic Relief (D4)</li> <li>FAC-Neutral Test (D5)</li> </ul>	gery (C9)
Surface Water Present? Yes No Depth (inches):   Water Table Present? Yes No Depth (inches): 12   Saturation Present? Yes No Depth (inches): 9   (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:	Surface Water Present? Yes No Depth (inches):   Water Table Present? Yes No Depth (inches): 12   Saturation Present? Yes No Depth (inches): 9   (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:	Surface Water Present? Yes No Depth (inches):   Water Table Present? Yes No Depth (inches): 12   Saturation Present? Yes No Depth (inches): 9   (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:	Field Observations:					
Water Table Present? Yes ∠ No Depth (inches): 12   Saturation Present? Yes ∠ No Depth (inches): 9   (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:	Water Table Present?       Yes _ ✓ No       Depth (inches):       12       Wetland Hydrology Present?       Yes _ ✓ No         Saturation Present?       Yes _ ✓ No       Depth (inches):       9       9         (includes capillary fringe)       Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:       Remarks:	Water Table Present? Yes ∠ No Depth (inches): 12   Saturation Present? Yes ∠ No Depth (inches): 9   (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:	Surface Water Present?	Yes No 🟒	Depth (inches):			
Saturation Present?       Yes ✓ No Depth (inches):       9         (includes capillary fringe)	Saturation Present? Yes    Depth (inches):   9   Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:   Remarks:	Saturation Present?       Yes _ ✓ No Depth (inches):       9         (includes capillary fringe)	Water Table Present?	Yes 🟒 No	Depth (inches):	12	Wetland Hydrology Present?	∕es 🟒 No
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:	(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:	(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:	Saturation Present?	Yes 🟒 No	Depth (inches):	9		
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	(includes capillary fringe)					
			Remarks:	gauge, monitoring well,	aeriai photos, previous ins	spections), ir		

VEGETATION -- Use scientific names of plants.

Sampling Point: W-BTF-05\_PFO-1

Tree Stratum (Plot size: <u>30 ft</u> )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Specie	es That		
1. <i>Picea mariana</i>	40	Yes	FACW	Are OBL, FACW, or FAC:	-	8	(A)
2. Quercus bicolor	20	Yes	FACW	Total Number of Dominant S	Species	8	(B)
3. <i>Ulmus americana</i>	15	Yes	FACW	Across All Strata:	-	0	(0)
4.				<ul> <li>Percent of Dominant Specie</li> <li>Are OBL, FACW, or FAC:</li> </ul>	s That	100	(A/B)
5				Prevalence Index worksheet	:		
6	·			- Total % Cover of:		Multiply	By:
7	·			- OBL species	35	x 1 =	35
	75	= Total Cov	er	FACW species	35	x 2 =	270
<u>Sapling/Shrub Stratum</u> (Plot size: <u>15 ft</u> )				FAC species	20	x 3 =	60
1. <i>Spiraea tomentosa</i>	25	Yes	FACW	- FACU species	5	x 4 =	20
2. Viburnum recognitum	10	Yes	FAC	- UPL species	0	x 5 =	0
3. Viburnum recognitum	10	Yes	FAC	- Column Totals 1	95	(A)	385 (B)
4. Lonicera japonica	5	No	FACU	Prevalence Index :	= B/A =	2	000 (0)
5.				Hydrophytic Vegetation Indi	cators:		
6		. <u> </u>		1- Rapid Test for Hydro	phytic V	egetation	
7				2 - Dominance Test is >	•50%	0	
	50	= Total Cov	er	3 - Prevalence Index is	≤ 3.0 <sup>1</sup>		
<u>Herb Stratum</u> (Plot size: <u>5 ft</u> )				4 - Morphological Adap	otations <sup>1</sup>	(Provide	supporting
1. Onoclea sensibilis		Yes	FACW	- data in Remarks or on a sep	arate sh	eet)	
2. <u>Carex stricta</u>	25	Yes	OBL	Problematic Hydrophy	tic Veget	ation <sup>1</sup> (Ex	plain)
3. <u>Carex lacustris</u>	10	No	OBL	<sup>1</sup> Indicators of hydric soil and	l wetland	d hydrolog	gy must be
4. <i>Phalaris arundinacea</i>	5	No	FACW	present, unless disturbed or	r problen	natic	
5	·			_ Definitions of Vegetation Str	ata:		
6				Tree – Woody plants 3 in. (7.	6 cm) or	more in o	diameter at
7				breast height (DBH), regardl	ess of he	eight.	
8				Sapling/shrub – Woody plan	ts less th	nan 3 in. D	OBH and
9				greater than or equal to 3.28	8 ft (1 m)	tall.	
10				Herb – All herbaceous (non-	woody) p	olants, reg	gardless of
11				size, and woody plants less t	than 3.28		20.44 :
12				- height	ies great	er than 3.	28 IUM
	70	= Total Cov	er				
<u>Woody Vine Stratum</u> (Plot size: <u>30 ft</u> )				Hydrophytic Vegetation Pre	esent? Y	es 🟒 N	0
1	0			_			
2							
3							
4.							
	0	= Total Cov	er	-			
	eparate sheet.)						

SOIL

ienes)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
) - 9	10YR 3/1	90	10YR 5/8	10	С	M/PL	Silty Clay	
- 20	10YR 4/1	85	10YR 5/8	15	C	<u>M</u>	Clay	
				·				
				·				
				· <u> </u>				
				·				
				- <u></u>				
e: C = C ric Soil I	Concentration, D = Indicators:	Deple	tion, RM = Reduce	ed Ma	itrix, MS =	= Masked Sa	nd Grains. <sup>2</sup> Loo	ation: PL = Pore Lining, M = Matrix. Indicators for Problematic Hydric Soils <sup>3</sup> :
ilack Hi lydroge tratifie Deplete hick Da andy M andy G andy R andy R tripped	stic (A3) en Sulfide (A4) d Layers (A5) d Below Dark Surf ark Surface (A12) Aucky Mineral (S1) fleyed Matrix (S4) tedox (S5) d Matrix (S6) rface (S7) <b>(LRR R, N</b>	ace (A MLRA 1	Loamy Muc Loamy Gley Depleted M 11)_✓ Redox Darl Depleted D Redox Dep 49B) n and wetland hy	drolo	gy must l	( <b>R K, MERA I</b> ) ( <b>LRR K, L)</b> 7)	יספא) Inless disturbed	<ul> <li>Coast Prairie Redox (A16) (LRR K, L, R)</li> <li>5 cm Mucky Peat or Peat (S3) (LRR K, L, R)</li> <li>Dark Surface (S7) (LRR K, L)</li> <li>Polyvalue Below Surface (S8) (LRR K, L)</li> <li>Thin Dark Surface (S9) (LRR K, L)</li> <li>Iron-Manganese Masses (F12) (LRR K, L, R)</li> <li>Piedmont Floodplain Soils (F19) (MLRA 149B)</li> <li>Mesic Spodic (TA6) (MLRA 144A, 145, 149B)</li> <li>Red Parent Material (F21)</li> <li>Very Shallow Dark Surface (TF12)</li> <li>Other (Explain in Remarks)</li> <li>or problematic.</li> </ul>
cators	of hydrophytic veg	getatio						
licators t <b>rictive l</b>	of hydrophytic ve <sub>ɛ</sub> ـ <b>ayer (if observed)</b> Type: Depth (inches):		None			Hydric Soil	Present?	Yes No

#### Hydrology Photos



Soil Photos

Photo of Sample Plot North



Photo of Sample Plot

# WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Riverside	e Solar	City/County:	Chaumont, Jeffe	erson		Sampling Date:	2020-June-03
Applicant/Owner:	Geronimo			State: NY		Sampling Point:	W-BTF-05_PFO-2
Investigator(s): Bre	nner Fahrenz,	Bridgette Rooney, Ben Popham	۱ Sec	tion, Township, Ra	nge:		
Landform (hillslope, te	errace, etc.):	Flat	Local relief	(concave, convex,	, none):	None	Slope (%): 0 to 1
Subregion (LRR or ML	RA): LRR	R	Lat:	44.0734297652	Long:	-76.0680517754	Datum: WGS84
Soil Map Unit Name:	KgBKingsb	ury silty clay, 2 to 6 percent slo	pes			NWI classifi	cation:
Are climatic/hydrologi	c conditions o	n the site typical for this time o	f year?	Yes 🟒 No 🔄	(lf n	o, explain in Rema	irks.)
Are Vegetation,	Soil,	or Hydrology significantly	y disturbed?	Are "Normal (	Circums	tances" present?	Yes No 🟒
Are Vegetation,	Soil,	or Hydrology naturally p	roblematic?	(If needed, ex	plain ar	ny answers in Rem	arks.)

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

Hydrophytic Vegetation Present?	Yes 🟒 No		
Hydric Soil Present?	Yes 🟒 No	Is the Sampled Area within a Wetland?	Yes 🟒 No _
Wetland Hydrology Present?	Yes 🟒 No	If yes, optional Wetland Site ID:	W-BTF-05
Remarks: (Explain alternative procedur	es here or in a separate rep	port)	
Covertype is PFO. Ditches/drain tiles ob	oserved.		

#### HYDROLOGY

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

VEGETATION -- Use scientific names of plants.

Sampling Point: W-BTF-05\_PFO-2

Tree Stratum (Plot size: <u>30 ft</u> )	Absolute	Dominant	Indicator	Dominance Test worksh	neet:		
	% Cover	species?	Status	Are OBL_EACW or EAC	pecies mat	5	(A)
1. Picea mariana	45	Yes	FACW	Total Number of Domin	ant Species		
2. Ulmus americana	40	Yes	FACW	Across All Strata:	iune species	5	(B)
3. <u>Crataegus douglasii</u>	5	No	FAC	Percent of Dominant Sr	pecies That		
4		·		Are OBL, FACW, or FAC:		100	(A/B)
5		·		Prevalence Index works	sheet:		
6				Total % Cover	of:	Multiply	By:
7		·		OBL species	0	x 1 =	0
	90	= Total Cov	er	FACW species	100	x 2 =	200
Sapling/Shrub Stratum (Plot size: <u>15 ft</u> )				FAC species	25	x 3 =	75
1. Cornus racemosa	20	Yes	FAC	FACU species	0	x 4 =	0
2				UPL species	0	x 5 =	0
3				Column Totals	125	(A) -	275 (B)
4				Prevalence In	dev = B/A =	22	275 (0)
5							
6.				Hydrophytic Vegetation	Indicators:		
7.				1- Rapid Test for F	lydrophytic V	egetation/	
	20	= Total Cov	er	2 - Dominance les	st is >50%		
<u>Herb Stratum</u> (Plot size: <u>5 ft</u> )		-		3 - Prevalence Ind	$ex \ is \le 3.0^{\circ}$		
1. Lycopodiella subappressa	10	Yes	FACW	4 - Morphological	Adaptations	(Provide	supporting
2. Quercus bicolor	5	Yes	FACW		a separate si	tation1 (Ex	(nlain)
3.		·		Problematic Hyuro	il and watlan	d budrolo	.piairi) mumust ha
4.		·		nresent unless disturb	ad or proble	u Hyurolo; matic	gy must be
5.				Definitions of Vegetatio	n Strata:	natic	
6				Tree Woody plants 3 i	$n (7.6 \text{ cm}) \alpha$	r moro in (	diamotor at
7		· ·		breast height (DBH) reg	ardless of h	eight	
8	·	·		Sanling/shrub - Woody	nlants less t	ылала han 3 in Г	)BH and
9				greater than or equal to	o 3.28 ft (1 m	) tall.	Diruna
10				Herb – All herbaceous (	non-woody)	, plants, reg	gardless of
11		·		size, and woody plants	less than 3.2	8 ft tall.	
12				Woody vines – All wood	ly vines great	ter than 3.	28 ft in
12	15	- Tatal Cau		height.			
	15		er	Hydrophytic Vegetation	n Present?	(es 🖌 N	lo
<u>woody vine Stratum</u> (Plot size: <u>30 ft</u> )							
l							
2		·					
3		·					
4		·					
	0	= Total Cov	er				
Remarks: (Include photo numbers here or on a separate	e sheet.)						

SOIL

Profile Desc	cription: (Describe	to the	depth needed to o	docur	nent the	indicato	r or confirm the a	bsence of indicators.)
(inches)	Color (moist)	04	Color (moist)		Turnel	1.0.02	Taxtura	Demortes
(incries)				<u> </u>	Type.			Remarks
0-6	10YR 3/2	95	10YR 6/3	5			Slity Clay	
6 - 18	10YR 3/2		10YR 5/8	10	Ľ	M	Clay	
	-							
	Concontration D -		ion DM - Doduco			Mackar	Cand Crains 2	acation: DL - Dara Lining, M - Matrix
Type: C = C	oncentration, D =	Depiel	lion, RIVI = Reduce	u iviai	.rix, ivis =	Masket	i Sand Grains. <sup>2</sup> L	ocation: PL = Pore Lining, M = Matrix.
Hydric Soil	Indicators:							Indicators for Problematic Hydric Soils <sup>3</sup> :
Histosol	(A1)		Polyvalue Be	elow S	Surface (S	58) (LRR	R, MLRA 149B)	2 cm Muck (A10) <b>(LRR K, L, MLRA 149B)</b>
Histic Ep	Dipedon (A2)		Thin Dark St	irface	e (S9) (LRI		(A 149B)	Coast Prairie Redox (A16) (LRR K, L, R)
BIACK HI	STIC (A3)			(y IVIII	neral (FI)	(LRR K,	L)	5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
Hydroge	en Sulfide (A4)		Loamy Gleye					Dark Surface (S7) (LRR K, L)
Stratine	d Layers (A5) d Balaw Dark Surf	200 (11		aurix (	F3)			Polyvalue Below Surface (S8) (LRR K, L)
Depiete	u below Dark Suri	ace (Al	□1)_√ Redux Dark		rfaco (E7	`		Thin Dark Surface (S9) (LRR K, L)
Sandy M	Auchy Mineral (S1)		Depleted Da		n ace (F2)	)		Iron-Manganese Masses (F12) (LRR K, L, R)
Sandy N	Sloved Matrix (S4)			255101	IS (FO)			Piedmont Floodplain Soils (F19) (MLRA 149B)
Sandy G	bieyed Matrix (S4)							Mesic Spodic (TA6) <b>(MLRA 144A, 145, 149B)</b>
Sandy R	edox (S5)							Red Parent Material (F21)
Stripped	d Matrix (S6)							Very Shallow Dark Surface (TF12)
Dark Su	rface (S7) <b>(LRR R, N</b>	/ILRA 1	49B)					Other (Explain in Remarks)
<sup>3</sup> Indicators	of hydrophytic veg	etatio	n and wetland hyc	rolog	y must b	e prese	nt, unless disturbe	d or problematic.
Restrictive I	Layer (if observed)					ľ		· ·
	Type:		Hard clav			Hydrid	Soil Present?	Yes 🖌 No
	Denth (inches):		18					
Domorkei	Depth (inches).		10					
Remarks:								

Soil Photos



Photo of Sample Plot West

# WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Riverside	Solar	C	ity/County: Cha	umont, Jeffe	rson		Sampling Date:	2020-June-02
Applicant/Owner: G	eronimo				State: NY		Sampling Point: V	N-BTF-05_PSS-1
Investigator(s): Bren	iner Fahrenz, B	ridgette Rooney,	Ben Popham	Sect	ion, Township, Ra	nge:		
Landform (hillslope, te	rrace, etc.):	Depression		Local relief	(concave, convex,	, none):	Concave	Slope (%): 0 to 1
Subregion (LRR or MLF	RA): LRR F	ł		Lat:	44.0702965925	Long:	-76.078521964	Datum: WGS84
Soil Map Unit Name:	CpCovingto	n silty clay					NWI classific	ation:
Are climatic/hydrologic	conditions on	the site typical fo	or this time of ye	ear?	Yes 🟒 No 🔄	(If no	o, explain in Remar	rks.)
Are Vegetation,	Soil,	or Hydrology	_ significantly dis	sturbed?	Are "Normal (	Circums	tances" present?	Yes 🟒 No
Are Vegetation,	Soil,	or Hydrology	_ naturally probl	lematic?	(If needed, ex	plain ar	y answers in Rema	arks.)

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

Hydrophytic Vegetation Present?	Yes 🟒 No		
Hydric Soil Present?	Yes 🟒 No	Is the Sampled Area within a Wetland?	Yes 🟒 No
Wetland Hydrology Present?	Yes 🟒 No	If yes, optional Wetland Site ID:	W-BTF-05
Remarks: (Explain alternative procedur	es here or in a separate rep	ort)	
Covertype is PSS.			

#### HYDROLOGY

Wetland Hydrology Indicators:		
Primary Indicators (minimum of one is	required; check all that apply)	Secondary Indicators (minimum of two required)
Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2)	<ul> <li>_ Water-Stained Leaves (B9)</li> <li>_ Aquatic Fauna (B13)</li> <li>_ Marl Deposits (B15)</li> <li>_ Hydrogen Sulfide Odor (C1)</li> <li>_ Oxidized Rhizospheres on Living Roots (C3)</li> </ul>	<ul> <li>Surface Soil Cracks (B6)</li> <li>Drainage Patterns (B10)</li> <li>Moss Trim Lines (B16)</li> <li>Dry-Season Water Table (C2)</li> <li>Crayfish Burrows (C8)</li> <li>Saturation Visible on Aerial Imageny (C9)</li> </ul>
<ul> <li>✓ Drift Deposits (B3)</li> <li>Algal Mat or Crust (B4)</li> <li>Iron Deposits (B5)</li> <li>✓ Inundation Visible on Aerial Imager Sparsely Vegetated Concave Surface</li> </ul>	<ul> <li>Presence of Reduced Iron (C4)</li> <li>Recent Iron Reduction in Tilled Soils (C6)</li> <li>Thin Muck Surface (C7)</li> <li>(B7) Other (Explain in Remarks)</li> <li>e (B8)</li> </ul>	<ul> <li></li></ul>
Field Observations:		
Surface Water Present?YeWater Table Present?YeSaturation Present?Ye	No _     Depth (inches):       No _     Depth (inches):       No _     Depth (inches):	
(includes capillary fringe)		
Describe Recorded Data (stream gauge Remarks:	e, monitoring well, aerial photos, previous inspections), if	available:

VEGETATION -- Use scientific names of plants.

Sampling Point: W-BTF-05\_PSS-1

Tree Stratum (Plot size: <u>30 ft</u> )	Absolute	Dominant	Indicator	Dominance Test worksh	neet:		
	% Cover	Species?	Status		pecies That	7	(A)
1. Ulmus americana	10	Yes	FACW	Total Number of Domin	ant Species		
2. Quercus bicolor	5	Yes	FACW	Across All Strata:	and opecies	7	(B)
3.		·		Percent of Dominant Sp	oecies That	100	(4 (D)
4	<u> </u>	·		Are OBL, FACW, or FAC:			(A/B)
з. е	·	<u> </u>		Prevalence Index works	sheet:		
7	·	<u> </u>		Total % Cover	<u>of:</u>	<u>Multiply</u>	<u>By:</u>
/	16	- Total Cov	or	OBL species	35	x 1 =	35
Capling/Chruh Stratum (Plat size) 15 ft )	15		ei	FACW species	105	x 2 =	210
<u>Saping/Sinub Stratum (Piot Size,15 it</u> )	40	Voc		FAC species	25	x 3 =	75
	40	Vec		FACU species	0	x 4 =	0
	15	Vee	FAC	UPL species	0	x 5 =	0
	10		FACW	Column Totals	165	(A)	320 (B)
4. Viburnum ientago	10		FAC	Prevalence In	dex = B/A =	1.9	
5. Quercus bicolor			FACW	Hydrophytic Vegetation	Indicators:		
	5	NO	OBL	1- Rapid Test for H	lydrophytic V	/egetation	I
7				2 - Dominance Tes	st is >50%		
	95	= lotal Cov	er	3 - Prevalence Ind	ex is $\leq 3.0^1$		
Herb Stratum (Plot size: <u>5 ft</u> )	20		0.51	4 - Morphological	Adaptations <sup>1</sup>	(Provide	supporting
1. Persicaria nydropiper	30	Yes	OBL	data in Remarks or on a	a separate sh	neet)	
2. Phalaris arundinacea	25	Yes	FACW	Problematic Hydro	ophytic Vege	tation <sup>1</sup> (E>	(plain)
3	. <u> </u>			<sup>1</sup> Indicators of hydric soi	l and wetlan	d hydrolo	gy must be
4.				present, unless disturb	ed or probler	matic	
5		·		Definitions of Vegetatio	n Strata:		
6				Tree – Woody plants 3 i	n. (7.6 cm) or	more in	diameter at
7				breast height (DBH), reg	gardless of h	eight.	
8				Sapling/shrub – Woody	plants less t	han 3 in. [	OBH and
9				greater than or equal to	0 3.28 π (1 m	) tall.	
10				Herb – All herbaceous (	loss than 3.2	piants, reį 8 ft tall	gardiess of
11				Woody vines - All wood	ly vines great	tor than 3	28 ft in
12				height.	ly villes great		.201111
	55	= Total Cov	er	Hydrophytic Vogotation	Drocont?		10
Woody Vine Stratum (Plot size: <u>30 ft</u> )						res r	
1	0						
2							
3							
4							
	0	= Total Cov	er				
Remarks: (Include photo numbers here or on a separate	e sheet.)			_			

SOIL

Depth		to the o	depth needed to d	docun	nent the i	ndicator	or confirm the a	bsence of indicators.)
	Matrix		Redox	Feat	ures			
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0 - 8	10YR 3/1	90	10YR 5/8	10	C	M	Silt Loam	
8 - 20	10YR 4/2	80	10YR 5/8	20	C	M	Clay	
				·				
					·			
						<u> </u>		
'Type: C = C	oncentration, D =	Deplet	ion, RM = Reduce	d Mat	rix, MS =	Masked	Sand Grains. <sup>2</sup> L	ocation: PL = Pore Lining, M = Matrix.
Hydric Soil	Indicators:							Indicators for Problematic Hydric Soils <sup>3</sup> :
Histosol	(A1)		Polyvalue Be	elow S	Surface (S	8) (LRR F	R, MLRA 149B)	2 cm Muck (A10) (LRR K, L, MLRA 149B)
Histic Ep	pipedon (A2)		Thin Dark Su	urface	(S9) (LRF	R, MLRA	A 149B)	Coast Prairie Redox (A16) (LRR K, L, R)
Black Hi	stic (A3)		Loamy Mucl	ky Mir	neral (F1)	(LRR K, L	)	5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
Hydroge	en Suifide (A4)		Loamy Gleye		Trix (F2)			Dark Surface (S7) (LRR K, L)
Stratilie	d Layers (A5) d Balaw Dark Surf:		Depieted Ma	atrix (	F3) co (F6)			Polyvalue Below Surface (S8) (LRR K, L)
Depiete	u below Dark Surra	ace (AT	Depleted D		ce (Fo) rfaco (E7)			Thin Dark Surface (S9) (LRR K, L)
Sandy M	Aucky Mineral (S1)		Depieted Da		nace (F7)			Iron-Manganese Masses (F12) (LRR K, L, R)
Sandy (	Sloved Matrix (S4)			633101	15 (FO)			Piedmont Floodplain Soils (F19) (MLRA 149B)
Sanuy G	bieyeu Matrix (54)							Mesic Spodic (TA6) <b>(MLRA 144A, 145, 149B)</b>
Sandy R	edox (SS)							Red Parent Material (F21)
Stripped	d Matrix (S6)		(0.5)					Very Shallow Dark Surface (TF12)
Dark Su	rface (S7) <b>(LRR R, N</b>	ILRA 14	49B)					Other (Explain in Remarks)
<sup>3</sup> Indicators	of hydrophytic veg	etatior	and wetland hyd	Irolog	y must b	e presen	t, unless disturbe	d or problematic.
Restrictive I	ayer (if observed):							
Restrictive I	L <b>ayer (if observed):</b> Type:		None			Hydric	Soil Present?	Yes 🟒 No
Restrictive I	L <b>ayer (if observed):</b> Type: Depth (inches):		None			Hydric	Soil Present?	Yes 🖌 No
Restrictive I	L <b>ayer (if observed):</b> Type: Depth (inches):		None			Hydric	Soil Present?	Yes No
Restrictive I	L <b>ayer (if observed):</b> Type: Depth (inches):	: 	None			Hydric	Soil Present?	Yes No
Restrictive I	ayer (if observed): Type: Depth (inches):	: 	None			Hydric	Soil Present?	Yes _ <u>/</u> No
Restrictive I	ayer (if observed): Type: Depth (inches):		None			Hydric	Soil Present?	Yes No
Restrictive I	Layer (if observed): Type: Depth (inches):	: 	None			Hydric :	Soil Present?	Yes _ <u>/</u> No
Restrictive I	Layer (if observed): Type: Depth (inches):		None			Hydric :	Soil Present?	Yes _ <u>/</u> No
Restrictive I	Layer (if observed): Type: Depth (inches):	: 	None			Hydric :	Soil Present?	Yes _ <u>/</u> No
Restrictive I	Layer (if observed): Type: Depth (inches):	: 	None			Hydric :	Soil Present?	Yes _ <u>/</u> No
Remarks:	Layer (if observed): Type: Depth (inches):		None			Hydric :	Soil Present?	Yes _ <u>/</u> No
Remarks:	Layer (if observed): Type: Depth (inches):		None			Hydric :	Soil Present?	Yes No
Remarks:	Layer (if observed): Type: Depth (inches):		None			Hydric :	Soil Present?	Yes No
Remarks:	Layer (if observed): Type: Depth (inches):		None			Hydric :	Soil Present?	Yes No
Remarks:	Layer (if observed): Type: Depth (inches):		None			Hydric :	Soil Present?	Yes No
Remarks:	Layer (if observed): Type: Depth (inches):		None			Hydric :	Soil Present?	Yes _ <u>/</u> No
Remarks:	Layer (if observed): Type: Depth (inches):		None			Hydric :	Soil Present?	Yes _ <u>/</u> No
Remarks:	Layer (if observed): Type: Depth (inches):		None			Hydric :	Soil Present?	Yes _ <u>/ No</u>
Remarks:	Layer (if observed): Type: Depth (inches):		None			Hydric :	Soil Present?	Yes _ <u>/ No</u>
Remarks:	Layer (if observed): Type: Depth (inches):		None			Hydric :	Soil Present?	Yes _ <u>/ No</u>
Restrictive I	Layer (if observed): Type: Depth (inches):		None			Hydric :	Soil Present?	Yes _ <u>/ No</u>
Restrictive I	Layer (if observed): Type: Depth (inches):		None			Hydric :	Soil Present?	Yes _ <u>/ No</u>
Restrictive I	Layer (if observed): Type: Depth (inches):		None			Hydric :	Soil Present?	Yes _ <u>/ No</u>

Soil Photos



Photo of Sample Plot North Photo of Sample Plot West



## WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Riverside	Solar	Ci	ty/County: Cha	umont, Jeffe	erson		Sampling Date:	2020-June-03	3
Applicant/Owner: G	eronimo				State: NY		Sampling Point: V	V-BTF-05_PUE	3-1
Investigator(s): Bren	ner Fahrenz, B	ridgette Rooney, I	Ben Popham	Sect	tion, Township, Ra	nge:			
Landform (hillslope, te	rrace, etc.):	Pond		Local relief	(concave, convex,	, none):	Concave	Slope (	<b>%):</b> 0 to 1
Subregion (LRR or MLR	A): LRR R			Lat:	44.0687328919	Long:	-76.0719525916	Datum:	WGS84
Soil Map Unit Name:	CpCovingtor	n silty clay					NWI classific	ation:	
Are climatic/hydrologic conditions on the site typical for this time of year? Yes 🖌 No (If no, explain in Remarks.)									
Are Vegetation,	Soil, c	or Hydrology	significantly dis	sturbed?	Are "Normal (	Circums	tances" present?	Yes	No 🖌
Are Vegetation,	Soil, c	or Hydrology	naturally probl	lematic?	(If needed, ex	plain ar	iy answers in Rema	arks.)	

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

Hydrophytic Vegetation Present?	Yes No		
Hydric Soil Present?	Yes 🟒 No	Is the Sampled Area within a Wetland?	Yes 🟒 No
Wetland Hydrology Present?	Yes 🟒 No	If yes, optional Wetland Site ID:	W-BTF-05
Remarks: (Explain alternative procedures he	ere or in a separate report	)	
Covertype is PUB. Ditches/drain tiles observ	ed. Circumstances are no	t normal due to agricultural activities. Pond appears t	o be man made.

#### HYDROLOGY

Wetland Hydrology Indicators:				
Primary Indicators (minimum of c	one is required; check al	l that apply)		Secondary Indicators (minimum of two required)
<ul> <li>✓ Surface Water (A1)</li> <li>✓ High Water Table (A2)</li> <li>✓ Saturation (A3)</li> <li>Water Marks (B1)</li> <li>Sediment Deposits (B2)</li> <li>Drift Deposits (B3)</li> <li>Algal Mat or Crust (B4)</li> <li>Iron Deposits (B5)</li> <li>✓ Inundation Visible on Aerial In</li> <li>✓ Sparsely Vegetated Concave S</li> </ul>	Wate Aqua Marl Hydru Oxidi Prese Receu Thin nagery (B7) Other urface (B8)	r-Stained Leaves (B9) tic Fauna (B13) Deposits (B15) ogen Sulfide Odor (C1) zed Rhizospheres on Living ence of Reduced Iron (C4) nt Iron Reduction in Tilled S Muck Surface (C7) r (Explain in Remarks)	g Roots (C3) Soils (C6)	<ul> <li>Surface Soil Cracks (B6)</li> <li>Drainage Patterns (B10)</li> <li>Moss Trim Lines (B16)</li> <li>Dry-Season Water Table (C2)</li> <li>Crayfish Burrows (C8)</li> <li>Saturation Visible on Aerial Imagery (C9)</li> <li>Stunted or Stressed Plants (D1)</li> <li>Geomorphic Position (D2)</li> <li>Shallow Aquitard (D3)</li> <li>Microtopographic Relief (D4)</li> <li>FAC-Neutral Test (D5)</li> </ul>
Field Observations: Surface Water Present? Water Table Present? Saturation Present?	Yes 🖌 No Yes 🖌 No Yes 🖌 No	Depth (inches): Depth (inches): Depth (inches):	10 0 0	_ Wetland Hydrology Present? Yes _∠_ No _
(includes capillary fringe) Describe Recorded Data (stream ) Remarks:	gauge, monitoring well,	aerial photos, previous ins	pections), if	available:

VEGETATION -- Use scientific names of plants.

Sampling Point: W-BTF-05\_PUB-1

Tree Stratum (Plot size: <u>30 ft</u> )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test wo Number of Domina	<b>rksheet:</b> nt Species That	з	(A)
1. <i>Ulmus americana</i>	10	Yes	FACW	Are OBL, FACW, or F	FAC:		
2				Total Number of Do	ominant Species	3	(B)
З 4		·		Percent of Dominar	nt Species That	100	(A/B)
5		······································		Are OBL, FACW, or F	AC:		(/ 0 D)
6		······································		Prevalence Index w	orksheet:		
7				- <u>Total % Co</u>	<u>ver of:</u>	Multiply E	<u>By:</u>
	10	= Total Cov	or	- OBL species	17	x 1 =	17
Sanling/Shruh Stratum (Plot size: 15 ft )		- 10tal COV	CI	FACW species	20	x 2 =	40
1	0			FAC species	0	x 3 =	0
۱	0			- FACU species	0	x 4 =	0
2.				- UPL species	0	x 5 =	0
3.		<u> </u>		- Column Totals	37	(A)	57 (B)
4.				- Prevalenc	e Index = B/A =	1.5	
5		·		Hydrophytic Vegeta	tion Indicators:		
6				1- Rapid Test f	or Hydrophytic V	egetation	
7				2 - Dominance	e Test is >50%	-8	
	0	= Total Cov	er	✓ 3 - Prevalence	Index is $\leq 3.0^1$		
<u>Herb Stratum</u> (Plot size: <u>5 ft</u> )				4 - Morpholog	ical Adaptations	Provide s	upporting
1. Lemna minor	12	Yes	OBL	- data in Remarks or	on a separate sh	(i i o i i de c	apper and
2. <i>Phalaris arundinacea</i>	10	Yes	FACW	Problematic H	vdrophytic Vege	tation <sup>1</sup> (Ex	olain)
3. <i>Typha angustifolia</i>	5	No	OBL	- <sup>1</sup> Indicators of hydrid	soil and wetlan	d hydrolog	y must be
4				present, unless dist	urbed or proble	matic	
5				Definitions of Veget	ation Strata:		
6.				Tree – Woody plants	s 3 in. (7.6 cm) oi	<sup>r</sup> more in d	liameter at
7.				breast height (DBH)	), regardless of h	eight.	
8.				Sapling/shrub - Wo	ody plants less t	han 3 in. D	BH and
9.		· ·		greater than or equ	al to 3.28 ft (1 m	) tall.	
10.		· ·		Herb – All herbaceo	ous (non-woody)	plants, reg	ardless of
11.		·		size, and woody pla	nts less than 3.2	8 ft tall.	
12.				Woody vines – All w	roody vines great	ter than 3.2	28 ft in
	27	= Total Cov	er	neight.			
<u>Woody Vine Stratum</u> (Plot size: <u>30 ft</u> )				Hydrophytic Vegeta	ation Present?	/es 🟒 N	0
1.	0						
2.				-			
3.		· ·		-			
4				-			
		= Total Cov	er	-			

SOIL

0 - 22       10YR 3/1       100
/pe: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains.       *Location: PL = Pore Lining, M = Matrix.         /pe: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains.       *Location: PL = Pore Lining, M = Matrix.         /rdric Soil Indicators:       Indicators for Problematic Hydric Soils?         Histosol (A1)
pe: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. <sup>2</sup> Location: PL = Pore Lining, M = Matrix.         Indicators:       Indicators for Problematic Hydric Soils <sup>2</sup> :         Histo Soil Indicators:       Indicators for Problematic Hydric Soils <sup>2</sup> :         Histo Soil A(1)       Polyvalue Below Surface (S8) (LRR R, MLRA 149B)         Black Histic (A3)       Loamy Mucky Mineral (F1) (LRR K, L)         Black Histic (A3)       Depleted Matrix (F2)         Depleted Below Dark Surface (A11)       Redox Dark Surface (F6)         Thick Dark Surface (A12)       Depleted Dark Surface (F7)         Thick Dark Surface (S1)       Redox Depressions (F8)         Sandy Mucky Mineral (S1)       Redox Depressions (F8)         Sandy Gleyed Matrix (S6)       Piedmont Floodplain Soils (F19) (MLRA 145, 143         Sandy Redox (S5)       Red Parent Material (F21)         Stripped Matrix (S6)       Red Parent Material (F21)         Dark Surface (S7) (LRR R, MLRA 149B)       Coast Praint Remarks)         Jitcators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.       Trino Dark Surface (TF12)
we: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. <sup>2</sup> Location: PL = Pore Lining, M = Matrix.         Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)      Polyvalue Below Surface (S8) (LRR R, MLRA 149B)         Histic Epipedon (A2)      Thin Dark Surface (S9) (LRR K, MLRA 149B)         Histic (A3)      Loamy Mucky Mineral (F1) (LRR K, L)         Hydrogen Sulfide (A4)      Depleted Matrix (F2)         Stratified Layers (A5)      Depleted Matrix (F3)         Depleted Below Dark Surface (A11)      Redx Dark Surface (F6)         Thin Dark Surface (F2)
e: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. <sup>2</sup> Location: PL = Pore Lining, M = Matrix.         ric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         distosol (A1)       Polyvalue Below Surface (S8) (LRR R, MLRA 149B)         distic Epipedon (A2)       Thin Dark Surface (S9) (LRR K, MLRA 149B)         distic (A3)       Loamy Mucky Mineral (F1) (LRR K, L)         Hydrogen Sulfide (A4)       Loamy Gleyed Matrix (F2)         Depleted Below Dark Surface (A11)       Depleted Matrix (F3)         Depleted Dark Surface (F6)       Thin Dark Surface (S9) (LRR K, L)         Fink Dark Surface (A12)       Depleted Dark Surface (F7)         Gandy Mucky Mineral (S1)       Redox Depressions (F8)         Sandy Redox (S5)       Redox Depressions (F8)         Stripped Matrix (S6)       Red Parent Material (F21)         Dark Surface (S7) (LRR R, MLRA 149B)       Very Shallow Dark Surface (TF12)         Other (Explain in Remarks)       Other (Explain in Remarks)         icators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.
e: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. <sup>2</sup> Location: PL = Pore Lining, M = Matrix.         ric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histic Call       Polyvalue Below Surface (S8) (LRR R, MLRA 149B)         Histic CA3       Loamy Mucky Mineral (F1) (LRR K, L)         Hydrogen Sulfide (A4)       Loamy Gleyed Matrix (F2)         Polyvalue Below Dark Surface (F6)       Depleted Matrix (F3)         Depleted Below Dark Surface (A12)       Depleted Dark Surface (F7)         Sandy Gleyed Matrix (S4)       Redox Depressions (F8)         Sandy Redox (S5)       Redox Depressions (F8)         Stripped Matrix (S6)       Very Shallow Dark Surface (F12)         Caters of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.
e: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. <sup>2</sup> Location: PL = Pore Lining, M = Matrix.         ric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         distosol (A1)       Polyvalue Below Surface (S8) (LRR R, MLRA 149B)       2 cm Muck (A10) (LRR K, L, MLRA 149B)         distic Epipedon (A2)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       Coast Prairie Redox (A16) (LRR K, L, R)         Black Histic (A3)       Loamy Mucky Mineral (F1) (LRR K, L)       5 cm Mucky Peat or Peat (S3) (LRR K, L)         Hydrogen Sulfide (A4)       Loamy Gleyed Matrix (F2)       Dark Surface (S7) (LRR K, L)         Stratified Layers (A5)       Depleted Matrix (F3)       Depleted Matrix (F3)         Depleted Below Dark Surface (A11)       Redox Dark Surface (F6)       Thin Dark Surface (S9) (LRR K, L)         hick Dark Surface (A12)       Depleted Dark Surface (F7)       Thin Dark Surface (S9) (LRR K, L)         Gandy Mucky Mineral (S1)       Redox Depressions (F8)       Piedmont Floodplain Soils (F19) (MLRA 144A, 145, 145)         Sandy Redox (S5)       Red Parent Material (F21)       Very Shallow Dark Surface (TF12)         Dark Surface (S7) (LRR R, MLRA 149B)       Very Shallow Dark Surface (TF12)       Other (Explain in Remarks)         Stripped Matrix (S6)       Thin Dark Surface (TF12)       Other (Explain in Remarks)       Other (Explain in Remarks)         Stratec (S7) (LRR
e: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. <sup>2</sup> Location: PL = Pore Lining, M = Matrix. Indicators: Histosol (A1)Polyvalue Below Surface (S8) (LRR R, MLRA 149B) Histic Epipedon (A2)Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3)Loamy Mucky Mineral (F1) (LRR K, L) Hydrogen Sulfide (A4)Loamy Gleyed Matrix (F2)S cm Mucky Peat or Peat (S3) (LRR K, L) Hitratified Layers (A5)Depleted Matrix (F3)Depleted Below Dark Surface (A11)Redox Dark Surface (F6)Thin Dark Surface (A12)Depleted Dark Surface (F7)Thin Dark Surface (S9) (LRR K, L) Horo-Manganese Masses (F12) (LRR K, L)Piedmont Floodplain Soils (F19) (MLRA 145, 145) Gandy Mucky Mineral (S1)Redox Depressions (F8)Nedox (S5)Nedox (S5)
e: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. <sup>2</sup> Location: PL = Pore Lining, M = Matrix.         ric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histic Epipedon (A2)       Thin Dark Surface (S9) (LRR R, MLRA 149B)         Jack Histic (A3)       Loamy Mucky Mineral (F1) (LRR K, L)         Hydrogen Sulfide (A4)       Loamy Gleyed Matrix (F2)         Bittie Epipedon (A2)       Depleted Matrix (F3)         Hydrogen Sulfide (A4)       Loamy Gleyed Matrix (F2)         Bittie Layers (A5)       Depleted Matrix (F3)         Depleted Below Dark Surface (A11)       Redox Dark Surface (F6)         Thic Dark Surface (A12)       Depleted Dark Surface (F7)         Gandy Gleyed Matrix (S4)       Redox Depressions (F8)         Sandy Redox (S5)       Red Parent Material (F21)         Stripped Matrix (S6)       Red Parent Material (F21)         Oark Surface (S7) (LRR R, MLRA 149B)       Very Shallow Dark Surface (TF12)         Oark Surface (S7) (LRR R, MLRA 149B)       Other (Explain in Remarks)         icators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.       or poblematic Hydric Soils <sup>2</sup> :
ric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, MLRA 149B)         Histic Epipedon (A2)       Thin Dark Surface (S9) (LRR R, MLRA 149B)         Black Histic (A3)       Loamy Mucky Mineral (F1) (LRR K, L)         Hydrogen Sulfide (A4)       Loamy Gleyed Matrix (F2)         Stratified Layers (A5)       Depleted Matrix (F3)         Depleted Below Dark Surface (A11)       Redox Dark Surface (F6)         Thick Dark Surface (A12)       Depleted Dark Surface (F7)         Sandy Mucky Mineral (S1)       Redox Depressions (F8)         Sandy Redox (S5)       Piedmont Floodplain Soils (F19) (MLRA 144A, 145, 145)         Sartipped Matrix (S6)       Red Parent Material (F21)         Dark Surface (S7) (LRR R, MLRA 149B)       Very Shallow Dark Surface (TF12)         Dark Surface (S7) (LRR R, MLRA 149B)       Other (Explain in Remarks)         Stratified Layers (if observed):       Into and wetland hydrology must be present, unless disturbed or problematic.
Histosol (A1)Polyvalue Below Surface (S8) (LRR R, MLRA 149B)Histosol (A2)Thin Dark Surface (S9) (LRR R, MLRA 149B)Histic Epipedon (A2)Loamy Mucky Mineral (F1) (LRR K, L)Black Histic (A3)Loamy Mucky Mineral (F1) (LRR K, L)Hydrogen Sulfide (A4)Loamy Gleyed Matrix (F2)Stratified Layers (A5)Depleted Matrix (F3)Depleted Below Dark Surface (A11)Redox Dark Surface (F6)Thick Dark Surface (A12)Depleted Dark Surface (F7)Gandy Gleyed Matrix (S4)Redox Depressions (F8)Sandy Gleyed Matrix (S6)Mesic Spodic (TA6) (MLRA 144A, 145, 149)Dark Surface (S7) (LRR R, MLRA 149B)Mesic Spodic (TA6) (MLRA 144A, 145, 149)Cators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.
Type:     None       Depth (inches):     Hydric Soil Present?   Yes _

Soil Photos



Photo of Sample Plot North Photo of Sample Plot South



# WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Riverside	Solar	City/County: Cha	umont, Jeffe	rson		Sampling Date:	2020-June-03	
Applicant/Owner: G	eronimo			State: NY		Sampling Point: V	V-BTF-05_PUB-2	
Investigator(s): Brenner Fahrenz, Bridgette Rooney, Ben Popham Section, Township, Range:								
Landform (hillslope, te	rrace, etc.):	Pond	Local relief	(concave, convex,	none):	Concave	Slope (%):	0 to 1
Subregion (LRR or MLR	RA): LRR F	2	Lat:	44.0729944672	Long:	-76.0683113494	Datum:W	/GS84
Soil Map Unit Name:	CpCovingto	n silty clay				NWI classifica	ation:	
Are climatic/hydrologic conditions on the site typical for this time of year? Yes 🖌 No (If no, explain in Remarks.)								
Are Vegetation 🟒,	Soil 🟒,	or Hydrology 🟒 significantly di	isturbed?	Are "Normal O	Circumst	tances" present?	Yes No	)
Are Vegetation,	Soil,	or Hydrology naturally prob	lematic?	(If needed, ex	plain an	y answers in Rema	arks.)	

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

Hydrophytic Vegetation Present?	Yes 🟒 No		
Hydric Soil Present?	Yes 🟒 No	Is the Sampled Area within a Wetland?	Yes 🟒 No _
Wetland Hydrology Present?	Yes 🟒 No	If yes, optional Wetland Site ID:	W-BTF-05
Remarks: (Explain alternative procedure	es here or in a separate re	port)	
Covertype is PUB. ATV/ORV impacts obs	served. Circumstances are	not normal due to mowing of vegetation. Pond app	pears to be man made.

#### HYDROLOGY

Wetland Hydrology Indicators:							
Primary Indicators (minimum of	f one is required; check al	Secondary Indicators (minimum of two required)					
<ul> <li>Surface Water (A1)</li> <li>High Water Table (A2)</li> <li>Saturation (A3)</li> <li>Water Marks (B1)</li> <li>Sediment Deposits (B2)</li> <li>Drift Deposits (B3)</li> <li>Algal Mat or Crust (B4)</li> <li>Iron Deposits (B5)</li> <li>Inundation Visible on Aerial</li> <li>Sparsely Vegetated Concave</li> </ul>	Wate Aqua Marl Hydr Oxidi Prese Rece Thin Imagery (B7) Othe Surface (B8)	r-Stained Leaves (B9) tic Fauna (B13) Deposits (B15) ogen Sulfide Odor (C1) zed Rhizospheres on Living ence of Reduced Iron (C4) nt Iron Reduction in Tilled S Muck Surface (C7) r (Explain in Remarks)	g Roots (C3) Soils (C6)	<ul> <li>Surface Soil Cracks (B6)</li> <li>Drainage Patterns (B10)</li> <li>Moss Trim Lines (B16)</li> <li>Dry-Season Water Table (C2)</li> <li>Crayfish Burrows (C8)</li> <li>Saturation Visible on Aerial Imagery (C9)</li> <li>Stunted or Stressed Plants (D1)</li> <li>Geomorphic Position (D2)</li> <li>Shallow Aquitard (D3)</li> <li>Microtopographic Relief (D4)</li> <li>FAC-Neutral Test (D5)</li> </ul>			
Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe)	Yes 🟒 No Yes 🟒 No Yes 🟒 No	Depth (inches): Depth (inches): Depth (inches):	5 0 0	_ Wetland Hydrology Present? Yes _∠_ No _			
Describe Recorded Data (strear Remarks:	n gauge, monitoring well,	aerial photos, previous ins	pections), if	available:			
Tree Stratum (Plot size: <u>30 ft</u> )	Absolute % Cover	Dominant	Indicator	Dominance Test worksheet:			
---	---------------------	-------------	-----------	---	---------------	-------------	--
1	0	Species.	Status	- Are OBL, FACW, or FAC:	1	(A)	
1	0			Total Number of Dominant Species			
2.				Across All Strata:	1	(B)	
3.		<u> </u>		Percent of Dominant Species That	400	(4 (5)	
				Are OBL, FACW, or FAC:	100	(A/B)	
S				<ul> <li>Prevalence Index worksheet:</li> </ul>			
o		<u> </u>		- <u>Total % Cover of:</u>	Multiply E	<u>By:</u>	
7				– OBL species 15	x 1 =	15	
	0	= lotal Cov	er	FACW species 80	x 2 =	160	
Sapling/Shrub Stratum (Plot size: <u>15 ft</u> )				FAC species 0	x 3 =	0	
1	0			– FACU species 0	x 4 =	0	
2				– UPL species 0	x 5 =	0	
3				– Column Totals 95	(A)	175 (B)	
4				Prevalence Index = B/A =	1.8	. ,	
5							
6				- 1- Rapid Test for Hydrophytic	Vegetation		
7				- 2 - Dominance Test is >50%	vegetation		
	0	= Total Cov	er	$\checkmark$ 2 Dominance rest is 50%			
<u>Herb Stratum</u> (Plot size: <u>5 ft</u> )				▲ Morphological Adaptation	1 (Provide c	supporting	
1. <i>Phalaris arundinacea</i>	80	Yes	FACW	<ul> <li>data in Remarks or on a separate sheet)</li> <li>Problematic Hydrophytic Vegetation<sup>1</sup> (Explain)</li> </ul>			
2. Schoenoplectus tabernaemontani	10	No	OBL				
3. <i>Carex crinita</i>	5	No	OBL	<ul> <li>Indicators of hydric soil and wetlag</li> </ul>	nd hvdrolog	v must be	
4.				present, unless disturbed or proble	ematic	5)	
5.				Definitions of Vegetation Strata:			
6.				Tree – Woody plants 3 in. (7.6 cm) o	or more in d	liameter at	
7.				breast height (DBH), regardless of	height.		
8.				Sapling/shrub – Woody plants less	than 3 in. D	BH and	
9.				greater than or equal to 3.28 ft (1 r	n) tall.		
10.				Herb – All herbaceous (non-woody	) plants, reg	ardless of	
11.				size, and woody plants less than 3.	28 ft tall.		
12.				Woody vines – All woody vines grea	ater than 3.2	28 ft in	
	95	= Total Cov	er	height.			
Woody Vine Stratum (Plot size: 30 ft )		-		Hydrophytic Vegetation Present?	Yes 🟒 N	0	
1	0						
2				-			
2				-			
				-			
*		- Total Cov	or	-			
	0		ei				
Remarks: (Include photo numbers here or on a sepa	rate sheet.)						

nches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0 - 20	10YR 3/1	92	10YR 6/8	8	<u> </u>	PL	Clay	
		'						
						<u> </u>		
						<u> </u>		
		·				<u> </u>		
		· <u> </u>						
		· ·				·		
						·		
	-					·		
		`						
pe: C = C	oncentration, D = [	)epleti	on, RM = Reduced	d Mat	rix, MS =	Masked Sar	d Grains. <sup>2</sup> L	ocation: PL = Pore Lining, M = Matrix.
Iric Soil I	ndicators:							Indicators for Problematic Hydric Soils <sup>3</sup> :
Histosol	(A1)		Polyvalue Be	elow S	Surface (S	58) (LRR R, M	LRA 149B)	2 cm Muck (A10) <b>(LRR K, L, MLRA 149B)</b>
Black Hi	stic (A3)		Loamy Muck	v Mir	eral (F1)	(IRR K. I.)	90)	Coast Prairie Redox (A16) (LRR K, L, R)
Hvdroge	en Sulfide (A4)		Loamy Gleve	ed Ma	itrix (F2)	(Entry E)		5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
Stratified	d Layers (A5)		Depleted Ma	atrix (	F3)			Dark Surface (S7) (LRR K, L)
Depleted	d Below Dark Surfa	ce (A11	I)_∕ Redox Dark	Surfa	ce (F6)			Polyvalue Below Sufface (S8) (LRR K, L)
Thick Da	ul Curfere (A12)		Depleted Da	rk Su	rface (F7)	)		Inin Dark Surface (S9) (LKR K, L)
THICK Da	irk Surface (ATZ)		= = = = = = = =					
Sandy M	lucky Mineral (S1)		Redox Depre	essio	ns (F8)			ITOTI-Mariganese Masses (FT2) (LKR K, L, K) Diadmont Elegadolain Soils (E10) (MI DA 1400)
Sandy M	lucky Mineral (S1) leyed Matrix (S4)		Redox Depre	essio	ns (F8)			ITOTI-Manganese Masses (F12) (LRR N, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Mesic Spodic (TA6) (MLRA 1448, 145, 149B)
_ Sandy M _ Sandy G _ Sandy R _ Sandy R	lucky Mineral (S1) leyed Matrix (S4) edox (S5)		Redox Depre	essio	าร (F8)			<ul> <li> ITOT-Manganese Masses (F12) (LRK K, L, K)</li> <li> Piedmont Floodplain Soils (F19) (MLRA 149B)</li> <li> Mesic Spodic (TA6) (MLRA 144A, 145, 149B)</li> <li> Parent Material (E21)</li> </ul>
_ Sandy M _ Sandy G _ Sandy R _ Sandy R	lucky Mineral (S1) leyed Matrix (S4) edox (S5) l Matrix (S6)		Redox Depre	essio	าร (F8)			
_ Sandy M _ Sandy G _ Sandy R _ Sandy R _ Stripped _ Dark Su	lucky Mineral (S12) leyed Matrix (S4) edox (S5) l Matrix (S6) rface (S7) <b>(LRR R, M</b>	LRA 14	Redox Depro	essio	าร (F8)			<ul> <li> ITOT-Mariganese Masses (F12) (LRK K, L, K)</li> <li> Piedmont Floodplain Soils (F19) (MLRA 149B)</li> <li> Mesic Spodic (TA6) (MLRA 144A, 145, 149B)</li> <li> Red Parent Material (F21)</li> <li> Very Shallow Dark Surface (TF12)</li> <li> Other (Explain in Remarks)</li> </ul>
_Sandy M _Sandy G _Sandy R _Stripped _Dark Su	Inc Surface (AT2) lucky Mineral (S1) leyed Matrix (S4) edox (S5) I Matrix (S6) rface (S7) <b>(LRR R, M</b> of hydrophytic vege	LRA 14	Redox Depri	ession	ns (F8) y must b	e present, u	nless disturbe	<ul> <li></li></ul>
_Sandy M _Sandy G _Sandy R _Stripped _Dark Sun dicators d	In Surface (A12) lucky Mineral (S1) leyed Matrix (S4) edox (S5) I Matrix (S6) rface (S7) (LRR R, M of hydrophytic vege .ayer (if observed):	LRA 14	BB) and wetland hyd	ession	ns (F8) y must b	e present, u	nless disturbe	<ul> <li> If Off-Mariganese Masses (F12) (LRK K, L, K)</li> <li> Piedmont Floodplain Soils (F19) (MLRA 149B)</li> <li> Mesic Spodic (TA6) (MLRA 144A, 145, 149B)</li> <li> Red Parent Material (F21)</li> <li> Very Shallow Dark Surface (TF12)</li> <li> Other (Explain in Remarks)</li> <li>ed or problematic.</li> </ul>
Sandy M Sandy G Sandy R Stripped Dark Sur dicators o strictive L	In Surface (A12) lucky Mineral (S1) leyed Matrix (S4) edox (S5) I Matrix (S6) rface (S7) (LRR R, M of hydrophytic vege ayer (if observed): Type:	LRA 14		ession	ns (F8) y must b	e present, u Hydric Soil	nless disturbe Present?	If Off-Mariganese Masses (F12) (LRK K, L, K) 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) ed or problematic. Yes _∠_ No
Sandy M Sandy G Sandy R Stripped Dark Su dicators d	In Surface (A12) lucky Mineral (S1) leyed Matrix (S4) edox (S5) I Matrix (S6) rface (S7) (LRR R, M of hydrophytic vege ayer (if observed): Type: Depth (inches):	LRA 14		ession Irolog	ns (F8) ay must b	e present, u	nless disturbe Present?	If Off-Mariganese Masses (F12) (LRK K, L, K) 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) ed or problematic. Yes No
Sandy M Sandy G Sandy R Strippec Dark Sur dicators o strictive L marks:	Ink Surface (A12) lucky Mineral (S1) leyed Matrix (S4) edox (S5) d Matrix (S6) rface (S7) (LRR R, M of hydrophytic vege cayer (if observed): Type: Depth (inches):	LRA 14		ession rolog	ns (F8) y must b	e present, u Hydric Soil	nless disturbe Present?	If Off-Mariganese Masses (F12) (LRR K, L, K) 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) ed or problematic. Yes _✓_ No
Sandy M Sandy G Sandy R Strippec Dark Sur dicators o trictive L narks:	In Surface (A12) lucky Mineral (S1) leyed Matrix (S4) edox (S5) d Matrix (S6) rface (S7) <b>(LRR R, M</b> of hydrophytic vege ayer (if observed): Type: Depth (inches):	LRA 14	Redox Depri	ession Irolog	ns (F8) y must b	e present, u Hydric Soil	nless disturbe Present?	If Off-Mariganese Masses (F12) (LRR K, L, K) 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) ed or problematic. Yes _∠_ No
Sandy M Sandy G Sandy R Strippec Dark Sur dicators of trictive L narks:	Inc Surface (A12) lucky Mineral (S1) leyed Matrix (S4) edox (S5) I Matrix (S6) rface (S7) <b>(LRR R, M</b> <u>of hydrophytic vege</u> <u>ayer (if observed):</u> Type: Depth (inches):	LRA 14	Redox Depri	ession Irolog	y must b	e present, u Hydric Soil	nless disturbe Present?	If Off-Mariganese Masses (F12) (LRR K, L, K) 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) ed or problematic. Yes No
Sandy M Sandy G Sandy R Strippec Dark Sui licators d trictive L	In Surface (A12) lucky Mineral (S1) leyed Matrix (S4) edox (S5) f Matrix (S6) rface (S7) <b>(LRR R, M</b> of hydrophytic vege <b>.ayer (if observed):</b> Type: Depth (inches):	LRA 14	Redox Depri	ession Irolog	y must b	e present, u Hydric Soil	nless disturbe Present?	If Off-Mariganese Masses (F12) (LRK K, L, K) 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) ed or problematic. Yes No
Sandy M Sandy G Sandy R Strippec Dark Sui licators d trictive L narks:	Inc Surface (A12) lucky Mineral (S1) leyed Matrix (S4) edox (S5) f Matrix (S6) rface (S7) <b>(LRR R, M</b> of hydrophytic vege <b>.ayer (if observed):</b> Type: Depth (inches):	LRA 14	BB) and wetland hyd None	ession Irolog	y must b	e present, u Hydric Soil	nless disturbe Present?	If Off-Mariganese Masses (F12) (LRK N, L, K) 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) ed or problematic. Yes _∠_ No
Sandy M Sandy G Sandy R Strippec Dark Sur licators of trictive L	Ink Surface (A12) lucky Mineral (S1) leyed Matrix (S4) edox (S5) H Matrix (S6) rface (S7) <b>(LRR R, M</b> of hydrophytic vege <b>.ayer (if observed):</b> Type: Depth (inches):	LRA 14	Redox Depri	Irolog	y must b	e present, u Hydric Soil	nless disturbe Present?	If Off-Mariganese Masses (F12) (LRK N, L, K) 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) ed or problematic. Yes No
Sandy M Sandy G Sandy R Strippec Dark Sur dicators of trictive L	In Surface (A12) lucky Mineral (S1) leyed Matrix (S4) edox (S5) I Matrix (S6) rface (S7) <b>(LRR R, M</b> of hydrophytic vege <b>.ayer (if observed):</b> Type: Depth (inches):	LRA 14	Redox Depri	Irolog	y must b	e present, u Hydric Soil	nless disturbe Present?	If Off-Mariganese Masses (F12) (LRK N, L, K) 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) ed or problematic. Yes No
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Sandy M Sandy G Sandy R Strippec Dark Sur dicators o strictive L	In Surface (A12) lucky Mineral (S1) leyed Matrix (S4) edox (S5) I Matrix (S6) rface (S7) (LRR R, M of hydrophytic vege ayer (if observed): Type: Depth (inches):	LRA 14	Redox Depri	Irolog	y must b	e present, u Hydric Soil	nless disturbe Present?	If Off-Mariganese Masses (F12) (LRR K, L, K) 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) ed or problematic. Yes No
Sandy M Sandy G Sandy R Strippec Dark Sur dicators o trictive L	In Surface (A12) lucky Mineral (S1) leyed Matrix (S4) edox (S5) I Matrix (S6) rface (S7) (LRR R, M of hydrophytic vege ayer (if observed): Type: Depth (inches):	LRA 14	Redox Depri	Irolog	y must b	e present, u Hydric Soil	nless disturbe	If OIT-Mariganese Masses (F12) (LRR K, L, K) 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) ed or problematic. Yes No
Sandy M Sandy G Sandy R Strippec Dark Sur <u>Jicators o</u> trictive L	In Surface (A12) lucky Mineral (S1) leyed Matrix (S4) edox (S5) I Matrix (S6) rface (S7) (LRR R, M of hydrophytic vege ayer (if observed): Type: Depth (inches):	LRA 14	Redox Depri	Irolog	y must b	e present, u Hydric Soil	nless disturbe	If Off-Mariganese Masses (F12) (LRK N, L, K) 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) ed or problematic. Yes No
Sandy M Sandy G Sandy R Strippec Dark Sur dicators of trictive L narks:	In Surface (A12) lucky Mineral (S1) leyed Matrix (S4) edox (S5) I Matrix (S6) rface (S7) (LRR R, M of hydrophytic vege ayer (if observed): Type: Depth (inches):	LRA 14	Redox Depri		y must b	e present, u Hydric Soil	nless disturbe	If Off-Mariganese Masses (F12) (LRK K, L, K) Piedmont Floodplain Soils (F19) (MLRA 149B) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) ed or problematic. Yes No
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Photo of Sample Plot South Photo of Sample Plot West



## WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Riverside	Solar	Ci	ty/County: Chau	Sampling Date: 2020-June-02				
Applicant/Owner: Ge	eronimo				State: NY		Sampling Point: W-BTF-05_UPL-1	
Investigator(s): Brenn	ner Fahrenz, B	ridgette Rooney, I	Ben Popham	Sect	ion, Township, Ra	inge:		
Landform (hillslope, ter	race, etc.):	Terrace		Local relief	(concave, convex,	, none):	Convex	Slope (%): 0 to 1
Subregion (LRR or MLR/	A): LRR R			Lat:	44.0760574887	Long:	-76.0657525383	Datum: WGS84
Soil Map Unit Name:	KgA-Kingsbur	y silty clay, 0 to 2	percent slopes				NWI classific	ation:
Are climatic/hydrologic	conditions on	the site typical fo	r this time of yea	ar?	Yes 🟒 No 🔄	(lf no	o, explain in Remai	rks.)
Are Vegetation,	Soil, c	or Hydrology	significantly dis	turbed?	Are "Normal (	Circums	tances" present?	Yes No 🟒
Are Vegetation,	Soil,	or Hydrology	_ naturally proble	ematic?	(If needed, ex	plain ar	y answers in Rema	arks.)

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

Hydrophytic Vegetation Present?	Yes No 🟒					
Hydric Soil Present?	Yes 🟒 No	Is the Sampled Area within a Wetland?	Yes No 🟒			
Wetland Hydrology Present?	Yes No 🟒	lf yes, optional Wetland Site ID:				
Remarks: (Explain alternative procedures he	re or in a separate report)					
Covertype is UPL. Circumstances are not normal due to agricultural activities. Circumstances are not normal due to mowing of vegetation. ATV/ORV						
impacts observed.						

### HYDROLOGY

Wetland Hydrology Indicators:						
Primary Indicators (minimum of on	e is required; o	check all that a	apply)	Secondary Indicators (minimum of two required)		
				<ul> <li>Surface Soil Cracks (B6)</li> <li>Drainage Patterns (B10)</li> <li>Moss Trim Lines (B16)</li> <li>Dry-Season Water Table (C2)</li> <li>Crayfish Burrows (C8)</li> <li>Saturation Visible on Aerial Image</li> </ul>	gery (C9)	
<ul> <li>Drift Deposits (B3)</li> <li>Algal Mat or Crust (B4)</li> <li>Iron Deposits (B5)</li> <li>Inundation Visible on Aerial Ima</li> <li>Sparsely Vegetated Concave Su</li> </ul>	– – agery (B7) _ rface (B8)	<ul> <li>Stunted or Stressed Plants (D1)</li> <li>Geomorphic Position (D2)</li> <li>Shallow Aquitard (D3)</li> <li>Microtopographic Relief (D4)</li> <li>FAC-Neutral Test (D5)</li> </ul>				
Field Observations:						
Surface Water Present?	Yes No	_ <b>/</b>	Depth (inches):			
Water Table Present?	Yes No	_ <b>/</b>	Depth (inches):	Wetland Hydrology Present?	Yes No 🟒	
Saturation Present?	Yes No	_/_	Depth (inches):			
(includes capillary fringe)				-		
Describe Recorded Data (stream ga	auge, monitori	ng well, aerial	photos, previous inspections), if	available:		

<u>Tree Stratum</u> (Plot size: <u>30 ft</u> )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test works Number of Dominant	<b>sheet:</b> Species That	0	(A)
1.	0			Are OBL, FACW, or FAC	:		
2.				Total Number of Dominant Species		2	(B)
3.				Percent of Dominant S	species That		
4		<u> </u>		Are OBL, FACW, or FAC		0	(A/B)
5		·		Prevalence Index work	sheet:		
o		<u> </u>		- <u>Total % Cover</u>	<u>r of:</u>	<u>Multiply</u>	<u>/ By:</u>
7				– OBL species	0	x 1 =	0
Carling (Church Church und (Dist singer 45.66))	0	= lotal Cov	er	FACW species	0	x 2 =	0
Sapling/Shrub Stratum (Plot size:15 ft)	0			FAC species	5	x 3 =	15
I	0			– FACU species	80	x 4 =	320
2				– UPL species	0	x 5 =	0
3.				– Column Totals	85	(A)	335 (B)
4.				Prevalence I	ndex = B/A =	3.9	_
5		<u> </u>		- Hydrophytic Vegetatio	n Indicators:		
6.		<u> </u>		1- Rapid Test for	Hydrophytic \	/egetatio	n
7				– 2 - Dominance Te	est is > 50%	0	
	0	= Total Cov	er	$3 - Prevalence Index is \le 3.0^1$			
<u>Herb Stratum</u> (Plot size: <u>5 ft</u> )				4 - Morphologica	Adaptations	<sup>1</sup> (Provide	e supporting
1. <u>Trifolium repens</u>	30	Yes	FACU	- data in Remarks or on	a separate sh	neet)	
2. <u>Vicia americana</u>	20	Yes	FACU	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)			xplain)
3. <u>Trifolium pratense</u>	15	No	FACU	Indicators of hydric soil and wetland hydrology mus			ogy must be
4. <i>Phleum pratense</i>	10	No	FACU	present, unless distur	bed or proble	matic	
5. <i>Taraxacum officinale</i>	5	No	FACU	_ Definitions of Vegetati	on Strata:		
6. <i>Ranunculus acris</i>	5	No	FAC	Tree – Woody plants 3	in. (7.6 cm) o	r more in	diameter at
7				_ breast height (DBH), re	egardless of h	eight.	
8				_ Sapling/shrub - Wood	y plants less t	han 3 in.	DBH and
9				greater than or equal	to 3.28 ft (1 m	) tall.	
10				Herb – All herbaceous	(non-woody)	plants, re	egardless of
11					s less than 3.2	8 IL LAII.	2 20 4 :
12				- height	dy vines grea	ter than :	3.28 IL IN
	85	= Total Cov	rer				
<u>Woody Vine Stratum</u> (Plot size: <u>30 ft</u> )				Hydrophytic Vegetatio	on Present?	res	No 🟒
1	0			_			
2							
3							
4.							
	0	= Total Cov	rer	-			
Remarks: (Include photo numbers here or on a sep	parate sheet.)			<u></u>			

tinches         Color (moist)         %         Type:         Loc?         Texture         Ref           0-13         2.5Y 3/1         96         2.5Y 5/6         2         C         M         Clay	Depth	Matrix	lo îne c	Redox	k Feat	ures	nuicator o	ir confirm the al	usence of indicat	LUI S.)
0-13       2.5Y 3/1       98       2.5Y 5/6       2       C       M       Silly Clay Learn         13-20       2.5Y 4/1       90       10YR 5/6       10       C       M       Clay         13-20       2.5Y 4/1       90       10YR 5/6       10       C       M       Clay         13-20       2.5Y 4/1       90       10YR 5/6       10       C       M       Clay         13-20       2.5Y 4/1       90       10YR 5/6       10       C       M       Clay         13-20       2.5Y 4/1       90       10YR 5/6       10       C       M       Clay         14       1	inches) C	olor (moist)	%	Color (moist)	<u>%</u>	Type <sup>1</sup>	Loc <sup>2</sup>	Text	ure	Remarks
13 - 20       2.5Y 4/1       90       10YR 5/6       10       C       M       Clay         Image: Clay in the second sec	0 - 13	2.5Y 3/1	98	2.5Y 5/6	2	C	М	Silty Clay	y Loam	
ype: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains.       *Location: PL = Pore Lining, M = Matrix         ydric Soil Indicators:       Indicators for Problematic Hydre S         Histos Gipledon (A2)       Thin Dark Surface (S3) (LRR R, MLRA 1498)       _Coast Praine Redox (A16) (LRR K, LIRA 1498)         Black Histic (A3)       Loamy Mucky Mineral (F1) (LRR K, LIRA 1498)       _Coast Praine Redox (A16) (LRR K, LIRA 1498)         Stratified Layers (A3)       _Loamy Gleyed Matrix (F2)	13 - 20	2.5Y 4/1	90	10YR 5/6	10	C	М	Clay		
ype: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains.       *Location: PL = Pore Lining, M = Matrix         ype: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains.       *Location: PL = Pore Lining, M = Matrix         yrbitsos(IA)			<u> </u>						· <b>j</b>	
ype: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains, *Location: PL = Pore Lining, M = Matrix         yrdir: Soil Indicators:       Indicators for Problematic Hydric S         Histic Coll Indicators:       Indicators for Problematic Hydric S         Histic Epledon (A2)										
ype: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. *Location: PL = Pore Lining, M = Matrix         ype: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. *Location: PL = Pore Lining, M = Matrix         Histocol (A1)       Polyvalue Below Surface (S8) (LRR R, MLRA 149B)         Histocopies Sulfide (A4)       Loamy Windxy Mireral (S1)         Hydrogen Sulfide (A4)       Loamy Gieyed Matrix (F2)         Depleted Below Surface (F6)       Thin Dark Surface (S7) (LRR R, MLRA 149B)         Sandy Mucky Mireral (S1)       Redox Dark Surface (F6)         Thick Dark Surface (A11)_       Redox Dark Surface (F7)         Sandy Mucky Mireral (S1)       Redox Depressions (F8)         Sandy Mucky Mireral (S1)       Redox Surface (F7)         Sandy Mucky Mireral (S1)       Redox Surface (F7)         Sandy Mucky Mireral (S1)       Redox Surface (F7)         Sandy Mucky Mireral (S1)       Redox Surface (F6)         Thick Dark Surface (S7) (LRR R, MLRA 149B)       Other (Explain in Remarks)         Other (Stripped Matrix (S6)       Other (Explain in Remarks)         Dark Surface (S7) (LRR R, MLRA 149B)       Other (Explain in Remarks)         Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.         rstrictive Layer (if Observed):       Yes _ No _         Depth (inches):       Mon										
ype: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains.       ?Location: PL = Pore Lining, M = Matrix         ydric Soil Indicators:       Indicators:       Indicators:         Histosol(A1)       Polyvalue Below Surface (S8) (LRR R, MLRA 1498)       _2 cm Muck (A10) (LRR K, L, MLE         Biack Histic (A3)       Loamy Mucky Mineral (F1) (LIRK, L)										
ype: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains.       *Location: PL = Pore Lining, M = Matrix         ydric Soil Indicators:       Indicators for Problematic Hydrics         Histic Epipedon (A2)       Thin Dark Surface (S9) (LRR R, MLRA 1498)										
ype: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains.       *Location: PL = Pore Lining, M = Matrix         yric Soil Indicators       indicators for Problematic Hydric S         Histosol (A1)       Polyvalue Below Surface (S3) (LRR R, MLRA 1498)       _2 cm Muck (A10) (LRR K, L)         Black Histic (A3)       Loamy Mucky Mineral (F1) (LRR K, L)       _5 cm Mucky Peat or Peat (S3) (Depleted Both Surface (F6)         Stratified Layers (A5)       Depleted Matrix (F2)       _Dark Surface (S7) (LRR K, L)         Stratified Layers (A5)       Depleted Dark Surface (F6)       _Thin Dark Surface (S9) (LRR K, L)         Stratified Layers (A5)       Depleted Dark Surface (F7)       _Thin Dark Surface (S9) (LRR K, L)         Stratified Layers (A5)       Depleted Dark Surface (F7)       _Thin Dark Surface (S9) (LRR K, L)         Sandy Gleged Matrix (S4)       _Polyvalue Below Surface (F7)       _Thin Dark Surface (S7) (LRR K, L)         Sandy Redox (S5)       _Bare Matrix (S4)       _Piedmont Floodplain Soils (F19)         _Sandy Redox (S5)       _Matrix (S6)       _Near (S7)         _Dark Surface (S7) (LRR K, L)       _Very Shallow Dark Surface (S7)       _Near (F7)         _Sandy Redox (S5)       _Dark Surface (S7) (LRR K, L)       _Near (S7)         _Dark Surface (S7) (LRR K, L)       _Very Shallow Dark Surface (F7)       _Near (S7)         _Dark Surface (S7) (LRR K, L) </td <td></td>										
ype: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. <sup>2</sup> Location: PL = Pore Lining, M = Matrix ydric Soil Indicators: Histos Soil (A1) Polyvalue Below Surface (S8) (LRR R, MLRA 149B) C cm Muck (A10) (LRR K, L MLFA Histic Epledon (A2) Thin Dark Surface (S9) (LRR R, MLRA 149B) C coast Prairie Redox (A16) (LRR K, L) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR k, L) S cm Muck/ Peat or Peat (S3) (L Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Dark Surface (S7) (LRR A, L) Depleted Matrix (F2) Depleted Matrix (F2) Depleted Dark Surface (F7) Thin Dark Surface (S1) (LRR A, L) Sendy Mucky Mineral (S1) Redox Depressions (F8) Polyvalue Below Surface (S9) (LRR A, L) Sondy Mucky Mineral (S1) Redox Depressions (F8) Polyvalue Below Surface (S5) Nerse Gyolic (TA6) (MLRA 144 Sandy Redox (S5) Stripped Matrix (S6) Polyvalue Selow Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) ndicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. stritive Layer (If Observed): None Hydric Soil Present? Yes No Depth (inches): None Hydric Soil Present? Yes No										
ype: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. <sup>2</sup> Location: PL = Pore Lining, M = Matrix provide: Soil Indicators: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, MLRA 1498) Histic Epipedon (A2) Thin Dark Surface (S9) (LRR R, MLRA 1498) Black Histic (A3) Loamy Gleyed Matrix (F2) Stratified Layers (A5) Depleted Matrix (F2) Depleted Bow Dark Surface (A11) / Redox Dark Surface (F6) Thick Dark Surface (A12) Depleted Dark Surface (F7) Sandy Mucky Mineral (S1) Redox Dark Surface (F7) Sandy Mucky Mineral (S1) Redox Dark Surface (F7) Sandy Redox (S5) Very Shallow Dark Surface (F7) Dark Surface (S7) (LRR R, MLRA 1498) Very Shallow Dark Surface (TF1) Dark Surface (S7) (LRR R, MLRA 1498) Very Shallow Dark Surface (TF1) Dark Surface (S7) (LRR R, MLRA 1498) Very Shallow Dark Surface (TF1) Dark Surface (S7) (LRR R, MLRA 1498) Very Shallow Dark Surface (TF1) Dark Surface (S7) (LRR R, MLRA 1498) Very Shallow Dark Surface (TF1) Dark Surface (S7) (LRR R, MLRA 1498)										
ype: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. <sup>2</sup> Location: PL = Pore Lining, M = Matrix ydric Soil Indicators: Histosol (A1)Polyvalue Below Surface (S8) (LRR R, MLRA 149B)Cast For Poblematic Hydric SD Black Histic (A3)Loamy Mucky Mineral (F1) (LRR K, L)S m Muck (A10) (LRR K, L) Histosol (A2)Thin Dark Surface (S9) (LRR R, MLRA 149B)Cast Prairie Redox (A16) (LR Hydrogen Sulface (A3)Depleted Matrix (F2)Dark Surface (S7) (LRR K, L) Depleted Below Dark Surface (A11) Redox Dark Surface (F6)Thin Dark Surface (S9) (LR R K, L) Sandy Mucky Mineral (S1)Redox Depressions (F8)Sandy Gleyed Matrix (S6)Very Shallow Dark Surface (S7) (LRR R, MLRA 149B)Very Shallow Dark Surface (S7)Red Parent Material (F21)Stripped Matrix (S6)Very Shallow Dark Surface (S7) (LRR R, MLRA 149B)Very Shallow Dark Surface (S7)N (MLRA 149E)N (Matrix Gi Sole Present; unless disturbed or problematic. strictive Layer (if observed): Type:NoneHydric Soil Present? YesNo Depth (inches):NoneHydric Soil Present? YesNo										
ype: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains.       *Location: PL = Pore Lining, M = Matrix         ydric Soil Indicators:       Indicators for Problematic Hydric S         Histos Epipedon (A2)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       2 cm Muck (A10) (LRR K, L MLE         Black Histic (A3)       Loamy Mucky Mineral (F1) (LRR K, L)       5 cm Mucky Peat or Paoleta (S3) (LP Partice Redox (A16) (LRR K, L)         Straffied Layers (A5)       Depleted Matrix (F2)       Dark Surface (S7) (LRR R, MLRA 149B)         Straffied Layers (A5)       Depleted Matrix (F3)       Polyvalue Below Surface (S9) (LRR R, MLRA 149B)         Straffied Layers (A5)       Depleted Matrix (F3)       Polyvalue Below Surface (S9) (LRR R, MLRA 149B)         Sandy McWy Mineral (S1)       Redox Depressions (F8)       Pheidmont Ploodplain Soils (F12)         Sandy Redox (S5)       Peletend Matrix (S6)       Predmont Ploodplain Soils (F12)         Stripped Matrix (S6)       Very Shallow Dark Surface (S7) (LRR R, MLRA 149B)       Very Shallow Dark Surface (S1)         Stripped Matrix (S6)       Other (Explain in Remarks)       Other (Explain in Remarks)         dicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.       Straface (S2) (LRR R, MLRA 149B)         dicators of hydrophytic vegetation and wetland hydrology for the present?       Yes _ No _         Depth (inches):						<u> </u>				
Apple Solution       Polyvalue Below Surface (S8) (LRR R, MLRA 149B)       indicators for Problematic Hydric S         Histic Epipedon (A2)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       Coast Prairie Redox (A16) (LRR K, L)         Black Histic (A3)       Loamy Mucky Mineral (F1) (LRR K, L)       S rm Mucky Peat or Peat (S3) (L         Stratified Layers (A5)       Depleted Matrix (F2)       Dark Surface (S7) (LRR R, L)         Depleted Below Dark Surface (A11) // Redox Dark Surface (F7)       Thin Dark Surface (S7) (LRR R, L)         Standy Gleyed Matrix (S4)       Sendy Gleyed Matrix (S6)       Piedmont Floodplain Soils (F19)         Sandy Gleyed Matrix (S6)       Kel and thin Remarks)       Weist Spodic (TA6) (MLRA 1429)         Johr Surface (S7) (LRR R, MLRA 149B)       Very Shallow Dark Surface (T2)       Piedmont Floodplain Soils (F19)         Sandy Gleyed Matrix (S6)       Red Parent Material (F21)       Very Shallow Dark Surface (T2)         Dark Surface (S7) (LRR R, MLRA 149B)       Very Shallow Dark Surface (T3)         Stripped Matrix (S6)       Very Shallow Dark Surface (T4)         Depth (inches):       None       Hydric Soil Present?         Type:       None       Hydric Soil Present?       Yes _ No         Depth (inches):       marks:       Hydric Soil Present?       Yes _ No	vpe: C = Conce	entration. D = [	Depleti	on. RM = Reduce	d Mat	rix. MS =	Masked S	and Grains, 21	ocation: PL = Por	re Lining M = Matrix
Histosol (A1) Polyvalue Below Surface (S8) (LRR R, MLRA 149B) 2 cm Muck (A10) (LRR k, L, MLF Histo Epipedon (A2) Thin Dark Surface (S9) (LRR R, MLRA 149B) Coast Prairie Redox (A16) (LRR k, L) 5 cm Mucky Peat or Peat (S3) (L Black Histic (A3) Loamy Mucky Mineral (F1) (LRR k, L) 5 cm Mucky Peat or Peat (S3) (L Depleted Below Dark Surface (A11) Redox Dark Surface (F6) Thin Dark Surface (S9) (LRR k, L) 5 andy Mucky Mineral (S1) Redox Depressions (F8) Polyvalue Below Surface (S7) (LRR k, MLRA 149B) for-Manganese Masses (F12) 1 Sandy Gleyed Matrix (S4) Redox Depressions (F8) Predmont Floodplain Solis (F19) Predmont Floodplain Solis (F19) Predmont Floodplain Solis (F19) Predmont Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) distance (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) distance (S7) (LRR R, MLRA 149B) Predmont Floodplain Solis (F19)	dric Soil Indica	ators:	- spieli						Indicators for F	Problematic Hydric Soils <sup>3</sup> :
Histic Epipedon (A2)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       Coart Mucky Alineral (F1) (LRR K, L)         Black Histic (A3)       Loamy Mucky Mineral (F1) (LRR K, L)       S cm Mucky Peat or Peat (S3) (LR K, L)         Stratified (A4)       Loamy Gleyed Matrix (F3)       Dark Surface (S7) (LRR K, L)         Depleted Below Dark Surface (A11)       Redox Dark Surface (F6)       Thin Dark Surface (S9) (LR K, L)         Stratified (A4)       Loamy Gleyed Matrix (F3)       Polyvalue Below Surface (S9) (LR K, K, L)         Sandy Mucky Mineral (S1)       Redox Dark Surface (F6)       Thin Dark Surface (S9) (LR K K, L)         Sandy McKy Mineral (S1)       Redox Depressions (F8)       Piedmont Floodplain Soils (F19)         Sandy Redox (S5)       Red Parent Material (F21)       West Spodic (TA6) (MLR 144A         Sandy Redox (S5)       Red Parent Material (F21)       Very Shallow Dark Surface (F7)         Stripped Matrix (S6)       Very Shallow Dark Surface (TF1)       Very Shallow Dark Surface (TF1)         Dark Surface (S7) (LRR R, MLRA 149B)       Other (Explain in Remarks)       Other (Explain in Remarks)         dicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.       Strippe Matrix (S4)       Very Shallow Dark Surface (S7) (Very Shal	Histosol (A1)			Polvvalue Be	elow S	Surface (S	8) (LRR R.	MLRA 149B)		
Black Histic (A3)Loamy Mucky Mineral (F1) (LRR K, L)S cm Mucky Peat or Peat (S3) (L Hydrogen Sulfide (A4)Loamy Gleyed Matrix (F2)Dark Surface (S7) (LRR K, L)S cm Mucky Peat or Peat (S3) (L Stratified Layers (A5)Depleted Matrix (F3)Dark Surface (S7) (LRR K, L)Depleted Below Dark Surface (A11) Redox Dark Surface (F7)Tron-Manganese Masses (F12)Sandy Mucky Mineral (S1)Redox Depressions (F8)Tron-Manganese Masses (F12)Sandy Mucky Mineral (S1)Redox Depressions (F8)Tron-Manganese Masses (F12)Sandy Redox (S5)Red Parent Material (F21)Very Shallow Dark Surface (TF1Very Shallow Dark Surface (TF1Very Shallow Dark Surface (TF1Very Shallow Dark Surface (S7) (LRR R, MLRA 149B)Very Shallow Dark Surface (TF1Very Shallow Dark Surface (S7) (LRR R, MLRA 149B)Very Shallow Dark Surface (TF1Very Shallow Dark Surface (S7) (LRR R, MLRA 149B)Very Shallow Dark Surface (S7) (LRR R, MLRA 149B)Very Shallow Dark Surface (S7) (LRR R, MLRA 149B)Very Shallow Dark Surface (S7) (LRR R, MLRA 149B)	_ Histic Epiped	lon (A2)		Thin Dark Si	urface	(S9) (LRR	R, MLRA	149B)	2 CITI IVIUCK	(ATU) (LKK K, L, WILKA 1498) ie Reday (A16) (I PP K I P)
	_ Black Histic (	A3)		Loamy Mucl	ky Mir	neral (F1)	(LRR K, L)		5 cm Muck	v Peat or Peat (S3) (I RR K   R)
	_ Hydrogen Su	ılfide (A4)		Loamy Gley	ed Ma	itrix (F2)			Dark Surfa	ce (S7) (I RR K. I.)
Depleted Below Dark Surface (A11) Depleted Dark Surface (F6)	_ Stratified Lay	/ers (A5)		Depleted Ma	atrix (	F3)			Polyvalue E	Below Surface (S8) <b>(LRR K, L)</b>
Linkt Dark Surface (A12) Depieted Dark Surface (+7) Iron-Manganese Masses (F12) + Sandy Gleyed Matrix (S4) Mesic Spodic (TA6) (MLRA 1444 Sandy Redox (S5) Mesic Spodic (TA6) (MLRA 1447 Tarbed Matrix (S6) Very Shallow Dark Surface (F1 Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) ndicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. estrictive Layer (if observed): Type: None Hydric Soil Present? Yes No Depth (inches): emarks:	_ Depleted Bel	low Dark Surfa	ice (A1	1)_✓ Redox Dark	Surfa	ce (F6)			Thin Dark S	Surface (S9) <b>(LRR K, L)</b>
	_ Thick Dark Si	urface (A12)		Depleted Da	ark Su	rface (F7)			Iron-Manga	anese Masses (F12) (LRR K, L, R)
				Redox Depr	essio	1S (F8)			Piedmont F	Floodplain Soils (F19) (MLRA 149B)
	_ Sandy Gleye								Mesic Spod	dic (TA6) <b>(MLRA 144A, 145, 149B)</b>
	_ Sanuy Redux	( (55) triv (56)							Red Parent	Material (F21)
Other (Explain in Remarks) ndicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. estrictive Layer (if observed): Type:NoneHydric Soil Present? Yes _/ No Depth (inches): ermarks:	_ Surpped Mai	(50)	II DA 1/						Very Shallo	w Dark Surface (TF12)
ndicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.  estrictive Layer (if observed):  Type: None Hydric Soil Present? Yes _ No Depth (inches):  emarks:				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					Other (Expl	lain in Remarks)
estrictive Layer (if observed):   Type: None   Depth (inches):   emarks:	ndicators of hy	drophytic vege	etation	and wetland hyd	Irolog	y must be	e present,	unless disturbe	d or problematio	- -
Type: None Hydric Soil Present? Yes _ No Depth (inches):	estrictive Layer	(if observed):								
emarks:	Туре	2:		None	-		Hydric So	oil Present?		Yes 🟒 No
emarks:	Dept	th (inches):								
	emarks:									



Photo of Sample Plot East Photo of Sample Plot South



# WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Riverside	e Solar	Ci	City/County: Chaumont, Jefferson				Sampling Date	: 2020-June-02
Applicant/Owner:	Geronimo		State: NY				Sampling Point:	W-BTF-05_UPL-2
Investigator(s): Bren	nner Fahrenz, E	Bridgette Rooney,	Ben Popham	Sect	ion, Township, Ra	nge:		
Landform (hillslope, te	errace, etc.):	Hillslope		Local relief	(concave, convex,	, none):	Convex	Slope (%): 2 to 5
Subregion (LRR or MLF	RA): LRR F	R		Lat:	44.0699555675	Long:	-76.0785049654	Datum: WGS84
Soil Map Unit Name:	CpCovingto	n silty clay					NWI classifi	cation:
Are climatic/hydrologi	c conditions or	the site typical fo	or this time of ye	ar?	Yes 🟒 No 🔄	(If no	o, explain in Rema	arks.)
Are Vegetation,	Soil,	or Hydrology	_ significantly dis	sturbed?	Are "Normal O	Circums	tances" present?	Yes 🟒 No
Are Vegetation,	Soil,	or Hydrology	_ naturally probl	lematic?	(If needed, ex	plain ar	iy answers in Rem	ıarks.)

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

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

### HYDROLOGY

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

Tree Stratum (Plot size: <u>30 ft</u> )	Absolute	Dominant	Indicator	Dominance Test works	sheet:		
a <b>T</b> ''	% Cover	species?	Status	Are OBL FACW or FAC:		0	(A)
1. Tilia americana	30	Yes	FACU	Total Number of Domi	 nant Snecies		
2. Acer saccharum	25	Yes	FACU	Across All Strata:	nune species	4	(B)
3. <u>Carya ovata</u>	15	No	FACU	Percent of Dominant S	opecies That		
4. <u>Ostrya virginiana</u>	12	No	FACU	Are OBL, FACW, or FAC	:	0	(A/B)
5. <u>Quercus bicolor</u>	5	No	FACW	Prevalence Index work	sheet:		
6	·			Total % Cover	r of:	Multiply	By:
7	·			OBL species	0	x 1 =	0
	87	= Total Cov	er	FACW species	5	x 2 =	10
Sapling/Shrub Stratum (Plot size: <u>15 ft</u> )				FAC species	0	x 3 =	0
1. <u>Acer saccharum</u>	25	Yes	FACU	FACU species	142	x 4 =	568
2. Ostrya virginiana	5	No	FACU	UPL species	0	x 5 =	0
3				Column Totals	147	(A)	578 (B)
4				Prevalence	ndex = B/A =	39	0,0 (0)
5	·						
6				Hydrophylic Vegetalio	n indicators:	lagatation	
7				1- Rapid Test for Hydrophytic Vegetation			I
	30	= Total Cov	er	2 - Dominance Test is > 50%			
<u>Herb Stratum</u> (Plot size: <u>5 ft</u> )		_		5 - Prevalence inc	$Jex IS \leq 5.0^{\circ}$	(Duessiale	
1. Podophyllum peltatum	20	Yes	FACU	4 - Morphological Adaptations <sup>1</sup> (Provide support			supporting
2. Carya ovata	5	No	FACU	Oala in Remarks of on a separate sheet)     Problematic Hydrophytic Vegetation1 (Explain)			(niclay
3. Ostrya virginiana	5	No	FACU	Indicators of hydric so	nil and wetlan	d hydrolo	ay must he
4.				present, unless disturb	ped or probler	matic	gy must be
5.				Definitions of Vegetati	on Strata:		
6.		· ·		Tree – Woody plants 3	in. (7.6 cm) or	r more in	diameter at
7.				breast height (DBH), re	egardless of h	eight.	
8.	·			Sapling/shrub - Wood	y plants less tl	han 3 in. l	DBH and
9.	·			greater than or equal t	to 3.28 ft (1 m	) tall.	
10.	·			Herb – All herbaceous	(non-woody)	plants, re	gardless of
11.		· ·		size, and woody plants	s less than 3.2	8 ft tall.	
12	·			Woody vines - All woo	dy vines great	ter than 3	.28 ft in
	30	= Total Cov	er	height.			
Woody Vine Stratum (Plot size: 30 ft )				Hydrophytic Vegetatio	on Present?	/es N	No 🖌
1	0						
·		·					
2.	·						
J	·						
4.		- Tatal Cau					
	0	= lotal Cov	er				
Remarks: (Include photo numbers here or on a separat	e sheet.)						

Deptin       Matrix       Redox Features         0 - 5       Color (moist)       %       Type'       Loc       Texture       I         0 - 5       10YR 2/2       100       5       C       M       Clay       Silt Loam       I         5 - 1.4       10YR 4/2       95       10YR 5/8       5       C       M       Clay       I         Image: Construction of the state of th	h needed to document the indicator or confirm the absence of indicators.)
Indicators       %       Lobor (moist)       Lobor (moist)       Lobor (moist)       M       Lobor (moist)       Lobor (moist) <thlobor (moist)<="" th=""></thlobor>	Redox Features
0-5       10YR 2/2       100	Color (moist)     %     Type <sup>1</sup> Loc <sup>2</sup> Texture     Remarks
5.14       10YR 4/2       95       10YR 5/8       5       C       M       Clay	Silt Loam
Image:	<u>10YR 5/8 5 C M Clay</u>
Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains.       *Location: PL = Pore Lining, M =         Hydric Soil Indicators:       Indicators for Problematic.         Histic Epipedon (A2)       Thin Dark Surface (S9) (LRR R, MLRA 1498)	
Image:	
Image: Solid Content and Solid Cont	
Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains.       *Location: PL = Pore Lining, M = Neduced Matrix, MS = Masked Sand Grains.         Hydric Soil Indicators:       Indicators for Problematic         Histic Epigedon (A2)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       2 cm Muck (A10) (LRR K, HISE 149B)         Black Histic (A3)       Loamy Mucky Mineral (F1) (LRR K, L)       5 cm Muck (A10) (LRR K, Petor Petor Petor Polyadue Below Surface (S7) (LRR R, MLRA 149B)         Stratified Layers (A5)       Z Depleted Matrix (F2)       Dark Surface (S7) (LRR K, MLRA 149B)         Stratified Layers (A5)       Z Depleted Matrix (F3)       Dark Surface (S7) (LRR K, MLRA 149B)         Stratified Layers (A5)       Z Depleted Matrix (F2)       Dark Surface (S7) (LRR K, Surface (S1)	
Image: Stripped Matrix (S6)	
Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains.       *Location: PL = Pore Lining, M =         Hydric Soil Indicators:       Indicators for Problematic         Histosol (A1)      Polyvalue Below Surface (S9) (LRR R, MLRA 149B)      Coast Problematic         Histo: Epipedon (A2)      Thin Dark Surface (S9) (LRR R, MLRA 149B)      Coast Problematic         Black Histic (A3)      Loamy Gleyed Matrix (F2)      Dark Surface (S7) (LRR R, MLRA 149B)      Coast Praine Redox (A1)         Black Histic (A3)      Loamy Gleyed Matrix (F3)      Dop/sulue Below Surface (F6)	
Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains.       ?Location: PL = Pore Lining, M =         Hydric Soil Indicators:       Indicators for Problematic         Histic Epipedon (A2)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       2 cm Muck (A10) (LRR k)         Black Histic (X3)       Loamy Mucky Mineral (F1) (LRR k, L)       5 cm Mucky Peat or Peat         Bydrogen Sulfide (A4)       Loamy Gleyed Matrix (F2)       Dark Surface (S7) (LRR H)         Stratified Layers (A5)       ✓ Depleted Matrix (F3)       Polyvalue Below Surface (F7)         Thin Dark Surface (A11)       Redox Dark Surface (F7)       Thin Dark Surface (S9)         Sandy Mucky Mineral (S1)       Depleted Dark Surface (F7)       Trion-Manganese Masse         Sandy Gleyed Matrix (S6)       Piedmont Floodplain SC       Mesic Spodic (TA6) (ML)         Sandy Steped Matrix (S5)       Redax Dark Surface (S7) (LRR R MLRA 149B)       Very Shallow Dark Surface         Stripped Matrix (S6)       Restrictive Layer (if observed):       Type:       Hard clay         Type:       Hard clay       Hydric Soil Present?       Yes No	
Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains.       ?Location: PL = Pore Lining, M +         Hydric Soil Indicators:       Indicators for Problematic         Histosol (A1)	
Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains.       *Location: PL = Pore Lining, M =         Hydric Soil Indicators:       Indicators for Problematic         Histic Epipedon (A2)       Thin Dark Surface (S9) (LRR R, MLRA 149B)	
Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains.       2 Location: PL = Pore Lining, M + Hydric Soil Indicators for Problematic Indicators for Problematic Indicators for Problematic I and the polyvalue Below Surface (S8) (LRR R, MLRA 1498)       2 cm Muck (A10) (LRR K, HSA 1498)         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, MLRA 1498)       2 cm Muck (A10) (LRR K, HSA 1498)         Black Histic (A3)       Loamy Mucky Minerai (F1) (LRR K, L)       S cm Mucky Peat or Peat Surface (S7) (LRR F)         Stratified Layers (A5)       Depleted Matrix (F3)       Polyvalue Below Surface (S7) (LRR F)         Depleted Below Dark Surface (A12)       Depleted Dark Surface (F6)       Thin Dark Surface (S7)         Sandy Mucky Minerai (S1)       Redox Dark Surface (F7)       Iron-Manganese Masse         Sandy Redox (S5)       Peater Material (F2)       Mesic Spodic (TA6) (ML)         Sandy Redox (S5)       Peater Material (F2)       Other (Explain in Remains)         Stripped Matrix (S6)       Very Shallow Dark Surface (S7) (LRR R, MLRA 1498)       Other (Explain in Remains)         3Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.       Restrictive Layer (If observed):       Yers	
Type:	
Hydric Soli Indicators:     indicators for Problematic	RM = Reduced Matrix, MS = Masked Sand Grains. 4Location: PL = Pore Lining, M = Matrix.
	Indicators for Problematic Hydric Soils <sup>3</sup> :
	_ Polyvalue Below Surface (S8) (LRR R, MLRA 149B) 2 cm Muck (A10) (LRR K, L, MLRA 149B)
	_ Thin Dark Surface (S9) (LRR R, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R)
	Loamy Mucky Mineral (F1) (LRR K, L) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
Statistic Layer (if observed):     Type:     Hard Clay     Depth (inches):     13     Remarks:     Polyvalue Below Surface     Thin Dark Surface     Polyvalue Below     Polyvalue Below Surface     Polyvalue Below     Polytale     Polytale     Polytale     Polytale     Polytale     Pol	_ Loanny Gleyed Matrix (F2) Dark Surface (S7) (LRR K, L)
Thick Dark Surface (A12) Depleted Dark Surface (F7) Thin Dark Surface (S9) (     Thick Dark Surface (S12) Depleted Dark Surface (F7) Iron-Manganese Masse     Sandy Gleyed Matrix (S4) Mesic Spodic (TA6) (MLI     Sandy Redox (S5) Red Parent Material (F2     Stripped Matrix (S6) Very Shallow Dark Surface     Dark Surface (S7) (LRR, MLRA 149B) Other (Explain in Remail     alndicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.  Restrictive Layer (if observed):     Type: Hard clay Hydric Soil Present? Yes No      Depth (inches): 13  Remarks:	_ Depleted Matrix (F3) Polyvalue Below Surface (S8) (LRR K, L)
Sandy Mucky Mineral (S1)	Depleted Dark Surface (F7) Thin Dark Surface (S9) (LRR K, L)
	Redox Depressions (FR) Iron-Manganese Masses (F12) (LRR K, L, R)
	Piedmont Floodplain Soils (F19) (MLRA 149B)
Stripped Matrix (S6) Red Parent Material (F2 Very Shallow Dark Surfa Other (Explain in Remai <u>alndicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.</u> Restrictive Layer (if observed): Type: Hard clay Depth (inches): 13 Remarks:	Mesic Spodic (TA6) <b>(MLRA 144A, 145, 149B)</b>
	Red Parent Material (F21)
Other (Explain in Remail Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Depth (inches): 13 Remarks: 	Very Shallow Dark Surface (TF12)
<sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.          Restrictive Layer (if observed):       Type:       Hard clay         Depth (inches):       13    Remarks:	Other (Explain in Remarks)
Image: Type: Hard clay       Hydric Soil Present?       Yes _ ✓_ No         Depth (inches):       13         Remarks:	l wetland hydrology must be present, unless disturbed or problematic.
Type: <u>Hard clay</u> Hydric Soil Present? Yes <u>No</u> Depth (inches): 13 Remarks:	
Depth (inches): 13 Remarks:	ard clay Hydric Soil Present? Yes 🖌 No
Remarks:	13



Photo of Sample Plot North Photo of Sample Plot South



Photo of Sample Plot West

# WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Riverside Solar City/County: Chaumont, Jefferson				Sampling Date: 20	20-June-03
Applicant/Owner: Geronimo			State: NY	Sampling Point: W-B	TF-05_UPL-3
Investigator(s): Bre	nner Fahrenz, l				
Landform (hillslope, t	errace, etc.):	Low Hill	Local relief (concave, convex, none)	: Convex	Slope (%): 1 to 3
Subregion (LRR or ML	.RA): LRR	R	Lat: 44.0686276604 Long	: -76.0719409997	Datum: WGS84
Soil Map Unit Name:	VeBVergen	nes silty clay loam, 3 to 8 perce	nt slopesovington silty clay	NWI classificatio	on:
Are climatic/hydrolog	ic conditions or	n the site typical for this time of	year? Yes 🖌 No (If r	no, explain in Remarks.	)
Are Vegetation 🟒,	Soil,	or Hydrology significantly	disturbed? Are "Normal Circum	stances" present?	Yes No 🟒
Are Vegetation,	Soil,	or Hydrology naturally pro	oblematic? (If needed, explain a	ny answers in Remarks	5.)

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

Hydrophytic Vegetation Present?	Yes No 🟒		
Hydric Soil Present?	Yes 🟒 No	Is the Sampled Area within a Wetland?	Yes No 🟒
Wetland Hydrology Present?	Yes No _	lf yes, optional Wetland Site ID:	
Remarks: (Explain alternative procedures here	re or in a separate report)		
Covertype is UPL. Circumstances are not nor	mal due to agricultural ac	tivities. Circumstances are not normal due to mowing o	of vegetation.

### HYDROLOGY

Wetland Hydrology Indicators:				
Primary Indicators (minimum of on	e is required; check	<u>all that apply)</u>	Secondary Indicators (minimum of t	<u>vo required)</u>
<ul> <li>Surface Water (A1)</li> <li>High Water Table (A2)</li> <li>Saturation (A3)</li> <li>Water Marks (B1)</li> <li>Sediment Deposits (B2)</li> <li>Drift Deposits (B3)</li> <li>Algal Mat or Crust (B4)</li> <li>Iron Deposits (B5)</li> <li>Inundation Visible on Aerial Ima</li> </ul>	Wa Aqu Ma Hyu Oxi Pre Rec Thi ugery (B7) Oth	ter-Stained Leaves (B9) uatic Fauna (B13) rl Deposits (B15) drogen Sulfide Odor (C1) idized Rhizospheres on Living Roots (C3 esence of Reduced Iron (C4) cent Iron Reduction in Tilled Soils (C6) n Muck Surface (C7) her (Explain in Remarks)	<ul> <li>Surface Soil Cracks (B6)</li> <li>Drainage Patterns (B10)</li> <li>Moss Trim Lines (B16)</li> <li>Dry-Season Water Table (C2)</li> <li>Crayfish Burrows (C8)</li> <li>Saturation Visible on Aerial Image</li> <li>Stunted or Stressed Plants (D1)</li> <li>Geomorphic Position (D2)</li> <li>Shallow Aquitard (D3)</li> <li>Microtopographic Relief (D4)</li> </ul>	ery (C9)
Field Observations:				
Surface Water Present?	Yes No 🟒	Depth (inches):		
Water Table Present?	Yes No 🟒	Depth (inches):	Wetland Hydrology Present?	′es No
Saturation Present?	Yes No 🟒	Depth (inches):	_	
(includes capillary fringe)				
Describe Recorded Data (stream ga	auge, monitoring we	ll, aerial photos, previous inspections),	if available:	
Remarks:				

Tree Stratum (Plot size: <u>30 ft</u> )	Absolute	Dominant	Indicator	Dominance Test worksh	neet:		
	% Cover	species	Status		pecies mat	1	(A)
1	0			Total Number of Domin	ant Snecies		
2				Across All Strata:	and opened	5	(B)
3				Percent of Dominant Sp	pecies That		(4 (5)
4.		<u> </u>		Are OBL, FACW, or FAC:		20	(A/B)
S				Prevalence Index works	heet:		
o		<u> </u>		Total % Cover	of:	<u>Multiply</u>	<u>By:</u>
7		Tabal Car		OBL species	0	x 1 =	0
Carling (Church Structures (Distring) AF (th. )	0	= lotal Cov	/er	FACW species	20	x 2 =	40
Sapling/Shrub Stratum (Plot size: <u>15 ft</u> )	•			FAC species	0	x 3 =	0
1	0			FACU species	80	x 4 =	320
2.				- UPL species	0	x 5 =	0
3				- Column Totals	100	(A)	360 (B)
4.				Prevalence In	dex = B/A =	3.6	
5				Hydrophytic Vegetation	Indicators:		
b				1- Rapid Test for H	lydrophytic V	/egetation	
7				2 - Dominance Tes	st is > 50%		
Hands Church and (Distriction of St. )	0	= lotal Cov	/er	3 - Prevalence Ind	ex is $\leq 3.0^1$		
Herb Stratum (Plot size: <u>5 ft</u> )	25		FACU	4 - Morphological	Adaptations	<sup>1</sup> (Provide	supporting
1. Poa pratensis		Yes	FACU	- data in Remarks or on a	a separate sh	neet)	
2. Phalaris arundinacea	20	Yes	FACW	Problematic Hydro	ophytic Vege	tation <sup>1</sup> (Ex	(plain)
3. Vicia americana	15	Yes	FACU	<sup>1</sup> Indicators of hydric soi	l and wetlan	d hydrolo	gy must be
4. Taraxacum officinale	15	Yes	FACU	present, unless disturb	ed or problei	matic	
5. <u>Trifolium repens</u>	15	Yes	FACU	Definitions of Vegetatio	n Strata:		
6. Lotus corniculatus	10	No	FACU	Tree – Woody plants 3 i	n. (7.6 cm) oı	r more in o	diameter at
7				breast height (DBH), reg	gardless of h	eight.	
8				Sapling/shrub – Woody	plants less t	han 3 in. [	OBH and
9				greater than or equal to	3.28 ft (1 m	) tall.	
10				Herb – All herbaceous (	non-woody)	plants, reg	gardless of
11					less than 5.2	tor than 2	20 ft in
12				height.	ly villes grea		.201111
	100	= Total Cov	ver	Lludrophutic Vogetation	Dracant2		
<u>Woody Vine Stratum</u> (Plot size: <u>30 ft</u> )				Hydrophytic Vegetation	n Present?	res N	10
1				-			
2				-			
3				-			
4				_			
	0	= Total Cov	ver				
Remarks: (Include photo numbers here or on a separate	sheet.)						

Profile Desc	ription: (Describe	to the d	epth needed to d	ocun	nent the	indicato	r or confirm the al	osence of indicators.)
(in shee)	Matrix		Color (moint)	rea	Tures	1.0.02	Tautuma	Demonto
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Туреч	LOC <sup>2</sup>	lexture	Remarks
0 - 6	10YR 3/2	100		· —			Silt Loam	
6 - 16	10YR 2/2	95	10YR 4/6	5	C	M	Clay	
				·			-	
				· —				
				·				
				· —				
				· —				·
				·				
<sup>1</sup> Type: C = C	oncentration, D =	Depletic	on, RM = Reduced	Mat	rix, MS =	Masked	Sand Grains. <sup>2</sup> Lo	ocation: PL = Pore Lining, M = Matrix.
Hydric Soil I	ndicators:							Indicators for Problematic Hydric Soils <sup>3</sup> :
Histosol	(A1)		Polyvalue Be	ow S	Surface (S	58) <b>(LRR</b>	R, MLRA 149B)	2 cm Muck (A10) <b>(LRR K, L, MLRA 149B)</b>
Histic Ep	oipedon (A2)		Thin Dark Su	rface	e (S9) <b>(LRF</b>	R R, MLR	A 149B)	Coast Prairie Redox (A16) <b>(LRR K, L, R)</b>
Black Hi	stic (A3)		Loamy Muck	y Mir	neral (F1)	(LRR K,	L)	5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
Hydroge	en Sulfide (A4)		Loamy Gleye	d Ma	atrix (F2)			Dark Surface (S7) (LRR K, L)
Stratifie	d Layers (A5)		Depleted Ma	trix (	F3)			Polyvalue Below Surface (S8) (LRR K, L)
Deplete	d Below Dark Surfa	ace (A11	) Redox Dark S	Surfa	ce (F6)			Thin Dark Surface (S9) <b>(LRR K, L)</b>
Thick Da	ark Surface (A12)		Depleted Dai	'k Su	rface (F7)	)		Iron-Manganese Masses (F12) (LRR K, L, R)
Sandy N	lucky Mineral (S1)		Redox Depre	SSIO	ns (F8)			Piedmont Floodplain Soils (F19) (MLRA 149B)
Sandy G	ileyed Matrix (S4)							Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
Sandy R	edox (S5)							Red Parent Material (F21)
Stripped	Matrix (S6)							Very Shallow Dark Surface (TF12)
Dark Su	rface (S7) <b>(LRR R, N</b>	ILRA 14	9B)					Other (Explain in Remarks)
3Indicators		otation	and watland bydy		v must b	o procos	at uplace disturba	d or problematic
Restrictive L	aver (if observed):		and wettand flydi	olog	y must b	e presei	it, unless disturbe	
	Type:		Hard clay			Hydric	Soil Present?	Yes / No
	Depth (inches):		16	•		liyan	Son Present.	
	Depth (inches).		10	·				
Remarks:								



Photo of Sample Plot West



# WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Riverside Solar City/County: Chaumont, Jefferson						Sampling Date:	2020-June-03
Applicant/Owner: Geronimo				State:	NY	Sampling Point:	W-BTF-05_UPL-4
Investigator(s): Brei	nner Fahrenz,	Bridgette Rooney, Ben	Popham	Section, Townsl	hip, Range:		
Landform (hillslope, te	errace, etc.):	Knob	Local	relief (concave, c	onvex, none)	: Convex	Slope (%): 1 to 3
Subregion (LRR or ML	RA): LRR	R		Lat: 44.073212	4215 Long	: -76.0681865467	Datum: WGS84
Soil Map Unit Name:	Kingsbury Si	lty Clay, 2 to 6 percent	slopes			NWI classifie	cation:
Are climatic/hydrologi	c conditions o	n the site typical for thi	s time of year?	Yes 🟒	No (If r	no, explain in Rema	rks.)
Are Vegetation 🟒,	Soil,	or Hydrology sigi	nificantly disturbe	d? Are "No	ormal Circum	stances" present?	Yes No 🟒
Are Vegetation,	Soil,	or Hydrology nat	urally problemation	? (If need	ed, explain a	ny answers in Rem	arks.)

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

Hydrophytic Vegetation Present?	Yes No 🟒		
Hydric Soil Present?	Yes 🟒 No	Is the Sampled Area within a Wetland?	Yes No 🟒
Wetland Hydrology Present?	Yes No _	If yes, optional Wetland Site ID:	
Remarks: (Explain alternative procedures h	ere or in a separate report		
Covertype is UPL. ATV/ORV impacts observe	ed. Circumstances are not i	normal due to mowing of vegetation.	

### HYDROLOGY

Wetland Hydrology Indicators:				
Primary Indicators (minimum of on	Secondary Indicators (minimum of	Secondary Indicators (minimum of two required)		
<ul> <li>Surface Water (A1)</li> <li>High Water Table (A2)</li> <li>Saturation (A3)</li> <li>Water Marks (B1)</li> <li>Sediment Deposits (B2)</li> <li>Drift Deposits (B3)</li> <li>Algal Mat or Crust (B4)</li> </ul>	Water-S Aquatic Marl De Hydrog Oxidize Presend Recent	<ul> <li>Surface Soil Cracks (B6)</li> <li>Drainage Patterns (B10)</li> <li>Moss Trim Lines (B16)</li> <li>Dry-Season Water Table (C2)</li> <li>Crayfish Burrows (C8)</li> <li>Saturation Visible on Aerial Im</li> <li>Stunted or Stressed Plants (D2)</li> <li>Geomorphic Position (D2)</li> </ul>	nagery (C9) 1)	
Iron Deposits (B5)	Thin Mu	uck Surface (C7) Evolain in Romarks)	Shallow Aquitard (D3)	
Sparsely Vegetated Concave Su	rface (B8)	explain in Remarks)	FAC-Neutral Test (D5)	
Field Observations:				
Surface Water Present?	Yes No 🟒	Depth (inches):		
Water Table Present?	Yes No 🟒	Depth (inches):	Wetland Hydrology Present?	Yes No 🟒
Saturation Present?	Yes No 🟒	Depth (inches):		
(includes capillary fringe)				
Describe Recorded Data (stream ga	auge, monitoring well, ae	rial photos, previous inspections), if	available:	

Tree Stratum (Plot size: <u>30 ft</u> )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test works	<b>sheet:</b> Species That	2	
1. Picea mariana	5	Yes	FACW	Are OBL, FACW, or FAC		2	(A)
2.				Total Number of Domi Across All Strata:	nant Species	5	(B)
4.				Percent of Dominant S	pecies That	40	(A/B)
5				Brevalence Index work	 rchoot:		
6				Total % Cover	of	Multiply	Bur
7				OBL species	0.	v 1 =	_ <u>y.</u> 
	5	= Total Cov	er	FACW species	5	×7=	10
Sapling/Shrub Stratum (Plot size: <u>15 ft</u> )				FAC species	5	×2-	10
1. Viburnum lentago	5	Yes	FAC		5 07	× 4 =	220
2.					02	x 4 -	520
3.				OPL species	0	x 5 =	0
4.		·			92	(A)	353 (B)
5.		·		Prevalence I	ndex = B/A =	<u>3.8</u>	
6.				Hydrophytic Vegetatio	n Indicators:		
7				1- Rapid Test for	Hydrophytic V	egetatior/	ו
	5	= Total Cov	or	2 - Dominance Te	est is > 50%		
Herb Stratum (Plot size: 5 ft )		- 10001 COV	CI	3 - Prevalence Inc	dex is $\leq 3.0^1$		
1 Trifolium ropons	30	Voc	EACU	4 - Morphologica	l Adaptations <sup>1</sup>	' (Provide	supporting
		Vec	FACU	data in Remarks or on	a separate sh	neet)	
		Vee	FACU	Problematic Hyd	rophytic Vege	tation <sup>1</sup> (E	xplain)
		Yes	FACU	Indicators of hydric soil and wetland hydrology must be			
4. Festuca rubra	5	NO	FACU	present, unless disturb	ped or probler	matic	
5. <i>Taraxacum officinale</i>	2	No	FACU	Definitions of Vegetati	on Strata:		
6	<u> </u>	· ·		Tree – Woody plants 3	in. (7.6 cm) or	r more in eight	diameter at
8		·		Sanling/shrub - Wood	v plants less t	han 3 in 1	DBH and
0				greater than or equal t	3.28  ft (1  m)	) tall.	DDITAIL
5		<u> </u>		Herb – All herbaceous	(non-woody)	plants, re	gardless of
10		·		size, and woody plants	less than 3.2	8 ft tall.	Baraicos er
12		<u> </u>		Woody vines – All woo	dv vines great	ter than 3	.28 ft in
12				height.	, , , , , , , , , , , , , , , , , , , ,		
	82	= lotal Cov	er			/oc 1	
<u>Woody Vine Stratum</u> (Plot size: <u>30 ft</u> )				Tydrophytic vegetatic	in resent:	103 1	NO <u>v</u>
1	0	<u> </u>					
2							
3							
4							
	0	= Total Cov	er				
Remarks: (Include photo numbers here or on a sepa	rate sheet.)						

Profile Des	cription: (Describe	to the d	epth needed to de	ocun	nent the	indicato	r or confirm the a	bsence of indicators.)
Deptn (inches)	Matrix		Color (moint)	rea	Tures	1.0.02	Toutune	Demonto
(incres)		<u> </u>	Color (moist)	90	Туреч	LOC <sup>2</sup>	Citt	Remarks
0 - 10	10YR 4/1	100		_			Slit Loam	
10 - 20	10YR 4/2	95	10YR 5/6	5	0	M	Clay	
				—				
$\frac{1}{1}$	Concentration D -	Doplatic	n PM - Poducod	Mat	riv MC -	Maskod	Sand Grains 21	ocation: PL - Pore Lining M - Matrix
Undrig Coil		Depletit	n, Rivi – Reduced	Iviat	11X, 1VIS -	waskeu		Indicators for Droblematic Lludric Coile3
Hydric Soll			Debaselus Del					Indicators for Problematic Hydric Solis <sup>3</sup> :
HISTOSO	I(AI)		Polyvalue Bel	0W 5	Surface (S		R, MLRA 149B)	2 cm Muck (A10) <b>(LRR K, L, MLRA 149B)</b>
HISUC E	pipedon (AZ)				2 (59) <b>(LKF</b> 2012 (E1)	( K, MLK	A 149B)	Coast Prairie Redox (A16) <b>(LRR K, L, R)</b>
	en Sulfide (A1)			/ 1V111 H M =	triv (F2)	LKK K,	L)	5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
Tiyurug Stratifia	ad Lavers (A5)		Loanny Gleyer	riv (	E3)			Dark Surface (S7) <b>(LRR K, L)</b>
Stratine	d Below Dark Surf:	ace (A11	Depleted Mark S	urfa	r-5) ce (E6)			Polyvalue Below Surface (S8) (LRR K, L)
Thick D	ark Surface (A12)		Depleted Dar	k Su	rface (F7)	)		Thin Dark Surface (S9) (LRR K, L)
Sandy M	Aucky Mineral (S1)		Redox Depre	ssior	ns (F8)	·		Iron-Manganese Masses (F12) <b>(LRR K, L, R)</b>
Sandy (	Gleved Matrix (S4)							Piedmont Floodplain Soils (F19) (MLRA 149B)
Sandy E	Pedox (S5)							Mesic Spodic (TA6) <b>(MLRA 144A, 145, 149B)</b>
Strippo	d Matrix (S6)							Red Parent Material (F21)
Suipper			0.01					Very Shallow Dark Surface (TF12)
Dark Su	111ace (37) <b>(LKK K, N</b>	ILKA 14	90)					Other (Explain in Remarks)
<sup>3</sup> Indicators	of hydrophytic veg	getation	and wetland hydr	olog	y must b	e preser	nt, unless disturbe	d or problematic.
Restrictive	Layer (if observed)	:						
	Туре:		None			Hydric	Soil Present?	Yes 🟒 No
	Depth (inches):							
Remarks:								



Photo of Sample Plot South Photo of Sample Plot West



## WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Riverside Solar	Sampling Date: 2020-Dec-17		
Applicant/Owner: Geronimo	plicant/Owner: Geronimo State: NY		
Investigator(s): Ryan Snow , Kevin Bliss	Section, Township, Range:		
Landform (hillslope, terrace, etc.): Hilltop	Local relief (concave, convex, none):	Convex Slope (%): 1 to 3	
Subregion (LRR or MLRA): LRR R	Lat: 44.0698039631 Long:	-76.0744610464 Datum: WGS84	
Soil Map Unit Name: VERGENNES silty clay loam,	VeB	NWI classification: None	
Are climatic/hydrologic conditions on the site typica	Il for this time of year? Yes _∠_ No (If no	o, explain in Remarks.)	
Are Vegetation,       Soil,       or Hydrology _         Are Vegetation,       Soil,       or Hydrology _	significantly disturbed? Are "Normal Circums naturally problematic? (If needed, explain ar	itances" present? Yes 🟒 No ny answers in Remarks.)	

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

Hydrophytic Vegetation Present?	Yes No 🟒		
Hydric Soil Present?	Yes No 🟒	Is the Sampled Area within a Wetland?	Yes No 🟒
Wetland Hydrology Present?	Yes No 🟒	If yes, optional Wetland Site ID:	
Remarks: (Explain alternative procedure	es here or in a separate repo	rt)	
Covertype is UPL.			

### HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of or</u>	<u>e is required; check all th</u>	<u>at apply)</u>		Secondary Indicators (minimum of two required)
<ul> <li>Surface Water (A1)</li> <li>High Water Table (A2)</li> <li>Saturation (A3)</li> <li>Water Marks (B1)</li> <li>Sediment Deposits (B2)</li> <li>Drift Deposits (B3)</li> <li>Algal Mat or Crust (B4)</li> <li>Iron Deposits (B5)</li> <li>Inundation Visible on Aerial Ima</li> <li>Sparsely Vegetated Concave Su</li> </ul>	Water-St Aquatic I Marl Dep Hydroge Oxidized Presence Recent II Thin Mu agery (B7) Other (E: Irface (B8)	tained Leaves (B9) Fauna (B13) cosits (B15) En Sulfide Odor (C1) I Rhizospheres on Living Ro e of Reduced Iron (C4) ron Reduction in Tilled Soil: ck Surface (C7) xplain in Remarks)	oots (C3) s (C6)	<ul> <li>Surface son Cracks (66)</li> <li>Drainage Patterns (B10)</li> <li>Moss Trim Lines (B16)</li> <li>Dry-Season Water Table (C2)</li> <li>Crayfish Burrows (C8)</li> <li>Saturation Visible on Aerial Imagery (C9)</li> <li>Stunted or Stressed Plants (D1)</li> <li>Geomorphic Position (D2)</li> <li>Shallow Aquitard (D3)</li> <li>Microtopographic Relief (D4)</li> <li>FAC-Neutral Test (D5)</li> </ul>
Field Observations:				
Surface Water Present?	Yes No 🟒	Depth (inches):		-
Water Table Present?	Yes 🟒 No	Depth (inches):	16	Wetland Hydrology Present? Yes No
Saturation Present?	Yes 🟒 No	Depth (inches):	13	_
(includes capillary fringe)				
Describe Recorded Data (stream g	auge, monitoring well, aer	ial photos, previous inspec	tions), if	available:
Remarks:				

<u>Tree Stratum</u> (Plot size: <u>30 ft</u> )	Absolute	Dominant	Indicator	Dominance Test worksheet:		
1 Disea rubans	% Cover	Species	Status	Are OBL FACW or FAC	1	(A)
1. Picea Tubens	 	Ne	FACU	Total Number of Dominant Species		
	5	INO	FACU	Across All Strata:	4	(B)
3				Percent of Dominant Species That		(1.(5)
4.				Are OBL, FACW, or FAC:	25	(A/B)
5				Prevalence Index worksheet:		
6	. <u> </u>			Total % Cover of:	<u>Multiply</u>	<u>By:</u>
/				OBL species 0	x 1 =	0
	85	= lotal Cov	er	FACW species 0	x 2 =	0
Sapling/Shrub Stratum (Plot size: <u>15 ft</u> )	_			FAC species 10	x 3 =	30
1. <u>Cornus racemosa</u>	5	Yes	FAC	FACU species 107	x 4 =	428
2. Lonicera morrowii	5	Yes	FACU	UPL species 5	x 5 =	25
3. <i>Prunus pensylvanica</i>	2	No	FACU	Column Totals 122	(A)	483 (B)
4				Prevalence Index = B/A =	4 _	
5				Hydrophytic Vegetation Indicators:		
6				1- Rapid Test for Hydrophytic	Vegetation	
7				2  Dominance Test is  50%	vegetation	
	12	= Total Cov	er	3 - Prevalence Index is < 3.01		
Herb Stratum (Plot size: <u>5 ft</u> )					1 (Provido	supporting
1. <i>Solidago altissima</i>	15	Yes	FACU	4 - Morphological Adaptations	heet)	supporting
2. Symphyotrichum lateriflorum	5	No	FAC	Problematic Hydrophytic Vege	atation <sup>1</sup> (Ex	(nlain)
3. Fragaria vesca	5	No	UPL	<sup>1</sup> Indicators of hydric soil and wetlar	nd hydrolog	øv must he
4. Poaceae	2	No	NI	present, unless disturbed or proble	matic	59 111050 50
5.				Definitions of Vegetation Strata:		
6.				Tree – Woody plants 3 in. (7.6 cm) o	r more in a	diameter at
7.				breast height (DBH), regardless of h	ieight.	
8.				Sapling/shrub - Woody plants less	than 3 in. E	OBH and
9.				greater than or equal to 3.28 ft (1 m	ו) tall.	
10.				Herb – All herbaceous (non-woody)	plants, reg	gardless of
11.				size, and woody plants less than 3.2	28 ft tall.	
12				Woody vines – All woody vines grea	iter than 3.	.28 ft in
	27	= Total Cov	er	height.		
Woody Vine Stratum (Plot size: 30 ft )			CI	Hydrophytic Vegetation Present?	Yes N	lo 🖌
1						
2	. <u> </u>			-		
3	. <u> </u>			-		
3				-		
<sup></sup>		- Total Cov	or	-		
	0		ei			
Remarks: (Include photo numbers here or on a separate	e sheet.)					

nchoc) Color (moist)		Redox	Feat	ures		
Ticries) Color (Indist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup> Textu	re Remarks
0 - 6 7.5YR 3/3	100				Silt Loa	am
6 - 18 7.5YR 4/2	100				Clay Lo	am
·			· —			
			· —			
<u> </u>			·			
			·			
$_{\text{vpe: C}} = Concentration. D =$	 Depletic	n. RM = Reduced	Matr	ix. MS =	Masked Sand Grains	Plocation: Pl = Pore Lining M = Matrix
dric Soil Indicators:	Depictic		maci	1, 11, 11, 19		Indicators for Problematic Hydric Soils <sup>3</sup> :
_Histosol (A1)		Polyvalue Be	low S	urface (S	8) (LRR R, MLRA 149B)	2 cm Muck (A10) (LRR K. L. MLRA 149B)
_ Histic Epipedon (A2)		Thin Dark Su	rface	(S9) <b>(LRR</b>	R, MLRA 149B)	Coast Prairie Redox (A16) (LRR K, L, R)
_ Black Histic (A3)		Loamy Mucky	y Min	eral (F1)	(LRR K, L)	5 cm Mucky Peat or Peat (S3) (LRR K. L. R)
_ Hydrogen Sulfide (A4)		Loamy Gleye	d Ma	trix (F2)		Dark Surface (S7) (LRR K. I.)
_ Stratified Layers (A5)		Depleted Ma	trix (F	3)		Polyvalue Below Surface (S8) (I BB K 1)
_ Depleted Below Dark Surf	ace (A11	) Redox Dark S	Surfac	e (F6)		Thip Dark Surface (S0) (LRK K, L)
Thick Dark Surface (A12)		Depleted Dar	'k Sur	face (F7)		
_Sandy Mucky Mineral (S1)		Redox Depre	ssion	s (F8)		Iron-Manganese Masses (F12) (LRR K, L, R)
Sandy Gleved Matrix (S4)						Piedmont Floodplain Soils (F19) (MLRA 149B)
Sandy Redox (S5)						Mesic Spodic (TA6) <b>(MLRA 144A, 145, 149B)</b>
Stripped Matrix (S6)						Red Parent Material (F21)
_ Dark Surface (S7) <b>(LRR R,</b> I	MLRA 14	9B)				Very Shallow Dark Surface (TF12)
dicators of hydrophytic vo	rotation	and wetland hydr	olom	must be	prosent unless disturk	Outer (explain in Remarks)
strictive Layer (if observed		and wetiand flydi	ology	mustbe		
·····		None			Hydric Soil Present?	Yes No 🗸
Type:			•		yane bon i rebana	
Type: Depth (inches):						

### Hydrology Photos



Vegetation Photos



Photo of Sample Plot North Photo of Sample Plot East



Photo of Sample Plot South



## WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Riverside	e Solar	c	ity/County: Chaumo	nt, Jeffe	rson		Sampling Date:	2020-Dec-17	
Applicant/Owner: G	ieronimo				State: NY		Sampling Point: \	W-BTF-05_UPL-6	
Investigator(s): Ryar	n Snow , Kevin I	Bliss		Sect	ion, Township, Ra	inge:			
Landform (hillslope, te	rrace, etc.):	Flat	Loca	al relief	(concave, convex	, none):	None	Slope (%):	1 to 3
Subregion (LRR or MLF	RA): LRR R			Lat:	44.0760081965	Long:	-76.0664061112	Datum: W	GS84
Soil Map Unit Name:							NWI classific	cation: None	
Are climatic/hydrologic	c conditions on	the site typical fo	or this time of year?		Yes 🟒 No 🔄	(If no	o, explain in Remai	rks.)	
Are Vegetation, Are Vegetation,	Soil,	or Hydrology or Hydrology	_ significantly disturb _ naturally problema	oed? tic?	Are "Normal ( (If needed, ex	Circums plain ar	tances" present? iy answers in Rema	Yes <u>∕</u> No _ arks.)	

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

Hydrophytic Vegetation Present?	Yes No 🟒		
Hydric Soil Present?	Yes No 🟒	Is the Sampled Area within a Wetland?	Yes No 🟒
Wetland Hydrology Present?	Yes No 🟒	If yes, optional Wetland Site ID:	
Remarks: (Explain alternative procedure	es here or in a separate repo	rt)	
Covertype is UPL.			

## HYDROLOGY

Wetland Hydrology Indicators:	a is required: check all th	hat apply)		Secondary Indicators (minimum of two required)
<ul> <li>Surface Water (A1)</li> <li>High Water Table (A2)</li> <li>Saturation (A3)</li> <li>Water Marks (B1)</li> <li>Sediment Deposits (B2)</li> <li>Drift Deposits (B3)</li> <li>Algal Mat or Crust (B4)</li> <li>Iron Deposits (B5)</li> <li>Inundation Visible on Aerial Image Sparsely Vegetated Concave Surface</li> </ul>	Water-S Aquatic Marl De Hydrog Oxidize Presenc Recent Thin Mu agery (B7) Other (F	Stained Leaves (B9) Fauna (B13) eposits (B15) en Sulfide Odor (C1) d Rhizospheres on Living R ce of Reduced Iron (C4) Iron Reduction in Tilled Soi uck Surface (C7) Explain in Remarks)	coots (C3) ls (C6)	<ul> <li>Surface Soil Cracks (B6)</li> <li>Drainage Patterns (B10)</li> <li>Moss Trim Lines (B16)</li> <li>Dry-Season Water Table (C2)</li> <li>Crayfish Burrows (C8)</li> <li>Saturation Visible on Aerial Imagery (C9)</li> <li>Stunted or Stressed Plants (D1)</li> <li>Geomorphic Position (D2)</li> <li>Shallow Aquitard (D3)</li> <li>Microtopographic Relief (D4)</li> <li>FAC-Neutral Test (D5)</li> </ul>
Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (stream g	Yes No Yes No Yes No auge, monitoring well, ae	Depth (inches): Depth (inches): Depth (inches): erial photos, previous inspe	14 ections), if	Wetland Hydrology Present? Yes No available:
Remarks:				

Tree Stratum (Plot size:30 ft)	Absolute	Dominant	Indicator	Dominance Test worksheet:		
	% Cover	Species?	Status	Number of Dominant Species That	2	(A)
1. Picea rubens	90	Yes	FACU	Total Number of Dominant Species		
2.				Across All Strata:	4	(B)
3	. <u> </u>			Percent of Dominant Species That		
4				Are OBL, FACW, or FAC:	50	(A/B)
5				Prevalence Index worksheet:		
6				Total % Cover of:	Multiply	B <u>v:</u>
7				OBL species 0	x 1 =	0
	90	= Total Cove	er	FACW species 0	x 2 =	0
Sapling/Shrub Stratum (Plot size: <u>15 ft</u> )				FAC species 15	x 3 =	45
1. <i>Cornus racemosa</i>	5	Yes	FAC	FACU species 90	x 4 =	360
2				UPL species 6	x 5 =	30
3				Column Totals 111	(A)	435 (B)
4				Prevalence Index = B/A =	39	135 (8)
5						
6				Autophylic Vegetation Indicators:	(	
7					/egetation	
	5	= Total Cove	er	2 - Dominance Test is > 50%		
<u>Herb Stratum</u> (Plot size: <u>5 ft</u> )		-		$3 - \text{Prevalence index is } 3.0^{\circ}$	1 (Durau dala	
1. Poa sylvestris	10	Yes	FAC	4 - Morphological Adaptations	' (Provide :	supporting
2. Fragaria vesca	6	Yes	UPL	Problematic Hydrophytic Vege	itation1 (Ev	nlain)
3.				Indicators of hydric soil and wetlan		y must he
4.				present, unless disturbed or proble	matic	sy must be
5.		·		Definitions of Vegetation Strata:		
6.				Tree – Woody plants 3 in (7.6 cm) o	r more in (	liameter at
7.				breast height (DBH), regardless of h	eight.	
8.				Sapling/shrub – Woody plants less t	han 3 in. D	)BH and
9.				greater than or equal to 3.28 ft (1 m	ı) tall.	
10				Herb – All herbaceous (non-woody)	plants, reg	gardless of
11.				size, and woody plants less than 3.2	8 ft tall.	
12	. <u> </u>			Woody vines – All woody vines grea	ter than 3.	28 ft in
12.	16	= Total Cove	⊃r	height.		
Woody Vine Stratum (Plot size: 30 ft )	- 10		-1	Hydrophytic Vegetation Present?	Yes N	lo 🖌
1						
2						
3						
*		- Total Cov	or			
	0					
Remarks: (Include photo numbers here or on a separat	e sheet.)					

Color (moist)         %         Color (moist)         %         Type1         Loc2         Texture         Remarks           0.8         7.5YR 3/2         100
0 - 8         7.5YR 3/2         100         Silt Loam           8 - 12         7.5YR 4/2         100         Clay           12 - 18         10YR 4/2         100         Clay           12 - 18         10YR 4/2         100         Clay
8 · 12       7.5YR 4/2       100       Clay Loam         12 · 18       10YR 4/2       100       Clay         10       100       Clay       100         112 · 18       10YR 4/2       100       Clay         112 · 18       10YR 4/2       10XR 4/2       Clay Matrix         1
12 - 18       10YR 4/2       100       Clay         Image: Clay       Image: Clay       Image: Clay         Image: Cla
IType: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. <sup>2</sup> Location: PL = Pore Lining, M = Matrix.         Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, MLRA 149B)         Histosol (A1)       Polyvalue Below Surface (S9) (LRR R, MLRA 149B)         Black Histic (A3)       Loamy Mucky Mineral (F1) (LRR K, L)         Stratified Layers (A5)       Depleted Matrix (F2)         Stratified Layers (A5)       Depleted Matrix (F3)         Sandy Mucky Mineral (S1)       Redox Depressions (F8)         Sandy Redox (S5)       Redox Depressions (F8)         Stripped Matrix (S6)       Red Parent Material (F21)         Dark Surface (S7) (LRR R, MLRA 149B)       Very Shallow Dark Surface (F12)         Other Kurface (S7) (LRR R, MLRA 149B)       Very Shallow Dark Surface (F12)         Sandy Redox (S5)       Red Parent Material (F21)         Stripped Matrix (S6)       Very Shallow Dark Surface (F12)         Dark Surface (S7) (LRR R, MLRA 149B)       Very Shallow Dark Surface (F12)         Other (Explain in Remarks)       Very Shallow Dark Surface (F12)         Stripped Matrix (S6)       Piedmont Floodplain Soils (F12)         Dark Surface (S7) (LRR R, MLRA 149B)       Very Shallow Dark Surface (F12)         Other (Explain in Remarks)       Very Sh
Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains.       2Location: PL = Pore Lining, M = Matrix.         Hydric Soil Indicators:       Indicators for Problematic Hydric Soils?         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, MLRA 149B)         Histosol (A2)       Thin Dark Surface (S9) (LRR R, MLRA 149B)         Black Histic (A3)       Loamy Mucky Mineral (F1)         Hydrogen Sulfide (A4)       Loamy Mucky Mineral (F3)         Depleted Below Dark Surface (A11)       Redox Dark Surface (F6)         Thick Dark Surface (A12)       Depleted Dark Surface (F7)         Sandy Mucky Mineral (S1)       Redox Depressions (F8)         Sandy Redox (S5)       Redox Depressions (F8)         Stripped Matrix (S6)       Peidemont Floodplain Soils (F19) (MLRA 1449B)         Stripped Matrix (S6)       Red Parent Material (F21)         Dark Surface (S7) (LRR R, MLRA 149B)       Very Shallow Dark Surface (FF12)         Stripped Matrix (S6)       Red Parent Material (F21)         Dark Surface (S7) (LRR R, MLRA 149B)       Other (Explain in Remarks)         'Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.
Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains.       ?Location: PL = Pore Lining, M = Matrix.         Hydric Soil Indicators:       Indicators for Problematic Hydric Soils?:         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, MLRA 149B)         Histic Epipedon (A2)       Thin Dark Surface (S9) (LRR R, MLRA 149B)         Black Histic (A3)       Loamy Mucky Mineral (F1) (LRR K, L)         Stratified Layers (A5)       Depleted Matrix (F2)         Depleted Below Dark Surface (A11)       Redox Dark Surface (F6)         Thick Dark Surface (A12)       Depleted Dark Surface (F7)         Sandy Mucky Mineral (S1)       Redox Depressions (F8)         Sandy Redox (S5)       Redox Depressions (F8)         Stripped Matrix (S6)       Peidemont Floodplain Soils (F19) (MLRA 1449B)         Stripped Matrix (S6)       Red Parent Material (F21)         Dark Surface (S7) (LRR R, MLRA 149B)       Very Shallow Dark Surface (TF12)         Dark Surface (S7) (LRR R, MLRA 149B)       Other (Explain in Remarks)         Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.       Poblematic Hydroids or problematic.
Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. <sup>2</sup> Location: PL = Pore Lining, M = Matrix.         Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, MLRA 149B)         Histic Epipedon (A2)       Thin Dark Surface (S9) (LRR R, MLRA 149B)         Black Histic (A3)       Loamy Mucky Mineral (F1) (LRR K, L)         Hydrogen Sulfide (A4)       Loamy Gleyed Matrix (F2)         Depleted Below Dark Surface (A11)       Redox Dark Surface (F6)         Thick Dark Surface (A12)       Depleted Dark Surface (F7)         Sandy Mucky Mineral (S1)       Redox Depressions (F8)         Stripped Matrix (S4)       Stripped Matrix (S6)         Stripped Matrix (S6)       Derleted Index Surface (T2)         Dark Surface (S7) (LRR R, MLRA 149B)       Red Parent Material (F12)         Other (Explain in Remarks)       Very Shallow Dark Surface (T71)         Stripped Matrix (S6)       Other (Explain in Remarks)         Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.
Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. <sup>2</sup> Location: PL = Pore Lining, M = Matrix.         Hydric Soil Indicators:       Indicators for Problematic Hydric Soils?:         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, MLRA 149B)         Histic Epipedon (A2)       Thin Dark Surface (S9) (LRR R, MLRA 149B)         Black Histic (A3)       Loamy Mucky Mineral (F1) (LRR K, L)         Black Histic (A3)       Loamy Gleyed Matrix (F2)         Stratified Layers (A5)       Depleted Matrix (F3)         Depleted Below Dark Surface (A11)       Redox Dark Surface (F6)         Thick Dark Surface (A12)       Depleted Dark Surface (F7)         Sandy Mucky Mineral (S1)       Redox Depressions (F8)         Sandy Redox (S5)       Piedmont Floodplain Soils (F19) (MLRA 149B)         Stripped Matrix (S6)       West Spodic (TA6) (MLRA 144A, 145, 149B)         Dark Surface (S7) (LRR R, MLRA 149B)       Very Shallow Dark Surface (TF12)         Dark Surface (S7) (LRR R, MLRA 149B)       Other (Explain in Remarks)         Pindicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.
Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. <sup>2</sup> Location: PL = Pore Lining, M = Matrix.         Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, MLRA 149B)         Histic Epipedon (A2)       Thin Dark Surface (S9) (LRR R, MLRA 149B)         Black Histic (A3)       Loamy Mucky Mineral (F1) (LRR K, L)         Hydrogen Sulfide (A4)       Loamy Mucky Mineral (F1) (LRR K, L)         Stratified Layers (A5)       Depleted Matrix (F2)         Depleted Below Dark Surface (A11)       Redox Dark Surface (F6)         Thin Dark Surface (F7)       Thin Dark Surface (F7)         Sandy Mucky Mineral (S1)       Redox Depressions (F8)         Sandy Redox (S5)       Breidend Matrix (S6)         Stripped Matrix (S6)       Red Parent Material (F21)         Dark Surface (S7) (LRR R, MLRA 149B)       Very Shallow Dark Surface (TF12)         Dark Surface (S7) (LRR R, MLRA 149B)       Other (Explain in Remarks)         Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.
Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. <sup>2</sup> Location: PL = Pore Lining, M = Matrix.         Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, MLRA 149B)         Histic Epipedon (A2)       Thin Dark Surface (S9) (LRR R, MLRA 149B)         Black Histic (A3)       Loamy Mucky Mineral (F1) (LRR K, L)         Hydrogen Sulfide (A4)       Loamy Gleyed Matrix (F2)         Depleted Below Dark Surface (A11)       Depleted Matrix (F3)         Depleted Below Dark Surface (A11)       Redox Dark Surface (F6)         Thick Dark Surface (A12)       Depleted Dark Surface (F7)         Sandy Mucky Mineral (S1)       Redox Depressions (F8)         Sandy Redox (S5)       Redox Depressions (F8)         Stripped Matrix (S6)       Red Parent Material (F21)         Dark Surface (S7) (LRR R, MLRA 149B)       Very Shallow Dark Surface (TF12)         Dark Surface (S7)       Other (Explain in Remarks)         Piedmont Floodplain Soils (F12)       Other (Explain in Remarks)
Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. <sup>2</sup> Location: PL = Pore Lining, M = Matrix.         Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, MLRA 149B)         Histic Epipedon (A2)       Thin Dark Surface (S9) (LRR R, MLRA 149B)         Black Histic (A3)       Loamy Mucky Mineral (F1) (LRR K, L)         Hydrogen Sulfide (A4)       Loamy Gleyed Matrix (F2)         Stratified Layers (A5)       Depleted Matrix (F3)         Depleted Below Dark Surface (A11)       Redox Dark Surface (F7)         Thick Dark Surface (A12)       Depleted Dark Surface (F7)         Sandy Mucky Mineral (S1)       Redox Depressions (F8)         Sandy Redox (S5)       Mesic Spodic (TA6) (MLRA 1449B)         Stripped Matrix (S6)       Wesic Spodic (TA6) (MLRA 1449B)         Dark Surface (S7) (LRR R, MLRA 149B)       Very Shallow Dark Surface (TF12)         Other (Explain in Remarks)       Other (Explain in Remarks)         Pindicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.
Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains.       ?Location: PL = Pore Lining, M = Matrix.         Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, MLRA 149B)         Black Histic (A3)       Loamy Mucky Mineral (F1) (LRR K, L)         Hydrogen Sulfide (A4)       Loamy Gleyed Matrix (F2)         Stratified Layers (A5)       Depleted Matrix (F3)         Depleted Below Dark Surface (A11)       Redox Dark Surface (F7)         Thin Dark Surface (F2)       Thin Dark Surface (F7)         Sandy Mucky Mineral (S1)       Redox Depressions (F8)         Sandy Redox (S5)       Mesic Spodic (TA6) (MLRA 149B)         Stripped Matrix (S6)       Mesic Spodic (TA6) (MLRA 144B)         Dark Surface (S7) (LRR R, MLRA 149B)       Very Shallow Dark Surface (TF12)         Other (Explain in Remarks)       Other (Explain in Remarks)
Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. <sup>2</sup> Location: PL = Pore Lining, M = Matrix.         Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, MLRA 149B)         Histosol (A2)       Thin Dark Surface (S9) (LRR R, MLRA 149B)         Black Histic (A3)       Loamy Mucky Mineral (F1) (LRR K, L)         Hydrogen Sulfide (A4)       Loamy Gleyed Matrix (F2)         Stratified Layers (A5)       Depleted Matrix (F3)         Depleted Below Dark Surface (A11)       Redox Dark Surface (F6)         Thick Dark Surface (A12)       Depleted Dark Surface (F7)         Sandy Mucky Mineral (S1)       Redox Depressions (F8)         Sandy Redox (S5)       Mesic Spodic (TA6) (MLRA 1442, 145, 149B)         Stripped Matrix (S6)       Red Parent Material (F21)         Dark Surface (S7) (LRR R, MLRA 149B)       Qeront Material (F21)         Stripped Matrix (S6)       Mesic Spodic (TA6) (MLRA 1442, 145, 149B)         Dark Surface (S7) (LRR R, MLRA 149B)       Other (Explain in Remarks)         Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.
Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, MLRA 149B)         Histic Epipedon (A2)       Thin Dark Surface (S9) (LRR R, MLRA 149B)         Black Histic (A3)       Loamy Mucky Mineral (F1) (LRR K, L)         Hydrogen Sulfide (A4)       Loamy Gleyed Matrix (F2)         Stratified Layers (A5)       Depleted Matrix (F3)         Depleted Below Dark Surface (A11)       Redox Dark Surface (F6)         Thick Dark Surface (A12)       Depleted Dark Surface (F7)         Sandy Gleyed Matrix (S4)       Redox Depressions (F8)         Sandy Redox (S5)       Mesic Spodic (TA6) (MLRA 144A, 145, 149B)         Stripped Matrix (S6)       Red Parent Material (F21)         Dark Surface (S7) (LRR R, MLRA 149B)       Very Shallow Dark Surface (TF12)         Other (Explain in Remarks)       Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.
Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, MLRA 149B)         Histic Epipedon (A2)       Thin Dark Surface (S9) (LRR R, MLRA 149B)         Black Histic (A3)       Loamy Mucky Mineral (F1) (LRR K, L)         Hydrogen Sulfide (A4)       Loamy Gleyed Matrix (F2)         Depleted Below Dark Surface (A11)       Redox Dark Surface (F6)         Thick Dark Surface (A12)       Depleted Dark Surface (F7)         Sandy Mucky Mineral (S1)       Redox Depressions (F8)         Sandy Redox (S5)       Depleted Matrix (S6)         Dark Surface (S7) (LRR R, MLRA 149B)         Stripped Matrix (S6)       Derestation and wetland hydrology must be present, unless disturbed or problematic.         Red Parent Material (F21)         Other (Explain in Remarks)
Histic Epipedon (A2)       Thin Dark Surface (S9) (LRR R, MLRA 149B)         Black Histic (A3)       Loamy Mucky Mineral (F1) (LRR K, L)         Hydrogen Sulfide (A4)       Loamy Gleyed Matrix (F2)         Stratified Layers (A5)       Depleted Matrix (F3)         Depleted Below Dark Surface (A11)       Redox Dark Surface (F6)         Thick Dark Surface (A12)       Depleted Dark Surface (F7)         Sandy Mucky Mineral (S1)       Redox Depressions (F8)         Sandy Redox (S5)       Depleted Matrix (S4)         Stripped Matrix (S6)       Mesic Spodic (TA6) (MLRA 144B)         Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.
Black Histic (A3)       Loamy Mucky Mineral (F1) (LRR K, L)
Hydrogen Sulfide (A4)       Loamy Gleyed Matrix (F2)       Derk Surface (A1)         Stratified Layers (A5)       Depleted Matrix (F3)       Dark Surface (S7) (LRR K, L)         Depleted Below Dark Surface (A11)       Redox Dark Surface (F6)       Thin Dark Surface (S9) (LRR K, L)         Thick Dark Surface (A12)       Depleted Dark Surface (F7)       Thin Dark Surface (S9) (LRR K, L)         Sandy Mucky Mineral (S1)       Redox Depressions (F8)       Piedmont Floodplain Soils (F19) (MLRA 1498)         Sandy Redox (S5)       Red Parent Material (F21)       Very Shallow Dark Surface (TF12)         Dark Surface (S7) (LRR R, MLRA 149B)       Other (Explain in Remarks)         Plindicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.
Stratified Layers (A5)       Depleted Matrix (F3)       Polyvalue Below Surface (S8) (LRR K, L)         Depleted Below Dark Surface (A11)       Redox Dark Surface (F6)       Thin Dark Surface (S9) (LRR K, L)         Thick Dark Surface (A12)       Depleted Dark Surface (F7)       Iron-Manganese Masses (F12) (LRR K, L, R)         Sandy Mucky Mineral (S1)       Redox Depressions (F8)       Piedmont Floodplain Soils (F19) (MLRA 149         Sandy Redox (S5)       Mesic Spodic (TA6) (MLRA 144A, 145, 149B         Stripped Matrix (S6)       Red Parent Material (F21)         Dark Surface (S7) (LRR R, MLRA 149B)       Other (Explain in Remarks)         Pindicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.         Restrictive Layer (if observed):
<ul> <li>Inick Dark Sufface (A12)</li> <li>Depleted Dark Sufface (F7)</li> <li>Sandy Mucky Mineral (S1)</li> <li>Redox Depressions (F8)</li> <li>Sandy Gleyed Matrix (S4)</li> <li>Sandy Redox (S5)</li> <li>Stripped Matrix (S6)</li> <li>Dark Sufface (S7) (LRR R, MLRA 149B)</li> <li>Redox Depressions (F8)</li> <li>Iron-Manganese Masses (F12) (LRR K, L, R)</li> <li>Mesic Spodic (TA6) (MLRA 144A, 145, 149B</li> <li>Red Parent Material (F21)</li> <li>Very Shallow Dark Sufface (TF12)</li> <li>Other (Explain in Remarks)</li> <li>Bindicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.</li> </ul>
<ul> <li>Sandy Mucky Milerar (S1)</li> <li>Redox Depressions (F8)</li> <li>Sandy Gleyed Matrix (S4)</li> <li>Sandy Redox (S5)</li> <li>Stripped Matrix (S6)</li> <li>Dark Surface (S7) (LRR R, MLRA 149B)</li> <li>Charlen C. (TF12)</li> <li>Other (Explain in Remarks)</li> <li>Piedmont Floodplain Soils (F19) (MLRA 144, 145, 149B</li> <li>Red Parent Material (F21)</li> <li>Very Shallow Dark Surface (TF12)</li> <li>Other (Explain in Remarks)</li> <li>Pindicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.</li> </ul>
Sandy Redox (S5)     Mesic Spodic (TA6) (MLRA 144A, 145, 149B     Sandy Redox (S5)     Red Parent Material (F21)     Very Shallow Dark Surface (TF12)     Other (Explain in Remarks)  PIndicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.  Restrictive Layer (if observed):
Salidy RedOX (S3) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) Other (Explain in Remarks) Other (Explain in Remarks) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) Other (Explain in Remarks) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) Other (Explain in Remarks) Other (Explain in Remarks) Red Parent Material (F21) Other (Explain in Remarks) Other (Explain in Remarks) Other (Explain in Remarks) Red Parent Material (F21) Other (Explain in Remarks)
Stripped Matrix (30)    Very Shallow Dark Surface (TF12)    Other (Explain in Remarks)     Other (Explain in Remarks)     Other (Explain in Remarks)      Restrictive Layer (if observed):
Data Surface (37) (LRK R, MLKA 1430) Other (Explain in Remarks) <sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed):
<sup>a</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed):
Restrictive Layer (if observed):
Type:No Hydric Soil Present? YesNo _∠
Depth (inches):

Hydrology Photos





Photo of Sample Plot North



Northcentral and Northeast Region -- Version 2.0 Adapted by TRC
Photo of Sample Plot South



Project/Site: Riverside Solar			City/County: Chaumor	nt, Jeffe	rson	Sampling Date: 2020-Dec-17			
Applicant/Owner: G				State: NY		Sampling Point: W-BTF-05_UPL-7			
Investigator(s): Ryar	n Snow , Kevin	Bliss		Section, Township, Range:					
Landform (hillslope, te	rrace, etc.):	Flat	Loca	al relief	(concave, convex,	, none):	None	Slope (%): 1	to 3
Subregion (LRR or MLF	RA): LRR F	R		Lat:	44.0721809363	Long:	-76.0728596188	Datum: WGS	84
Soil Map Unit Name:	Covington Si	ty clay, Cp					NWI classific	ation: None	
Are climatic/hydrologic	c conditions or	the site typical f	or this time of year?		Yes 🟒 No 🔄	(If no	o, explain in Remar	rks.)	
Are Vegetation, Are Vegetation,	Soil, Soil,	or Hydrology or Hydrology	_ significantly disturb _ naturally problema	ed? tic?	Are "Normal ( (If needed, ex	Circums plain an	tances" present? ly answers in Rema	Yes 🟒 No arks.)	

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

Hydrophytic Vegetation Present?	Yes No 🟒		
Hydric Soil Present?	Yes No 🟒	Is the Sampled Area within a Wetland?	Yes No 🟒
Wetland Hydrology Present?	Yes No	If yes, optional Wetland Site ID:	
Remarks: (Explain alternative procedures l	nere or in a separate repor	t)	
Covertype is UPL.			

Wetland Hydrology Indicators:	a is required: check all th	nat apply)		Secondary Indicators (minimum of two required)
<ul> <li>Surface Water (A1)</li> <li>High Water Table (A2)</li> <li>Saturation (A3)</li> <li>Water Marks (B1)</li> <li>Sediment Deposits (B2)</li> <li>Drift Deposits (B3)</li> <li>Algal Mat or Crust (B4)</li> <li>Iron Deposits (B5)</li> <li>Inundation Visible on Aerial Image Sparsely Vegetated Concave Surface</li> </ul>	Water-S Aquatic Marl De Hydrog Oxidize Presenc Recent Thin Mu agery (B7) Other (F	Stained Leaves (B9) Fauna (B13) eposits (B15) en Sulfide Odor (C1) d Rhizospheres on Living l ce of Reduced Iron (C4) Iron Reduction in Tilled So uck Surface (C7) Explain in Remarks)	Roots (C3) ils (C6)	<ul> <li>Surface Soil Cracks (B6)</li> <li>Drainage Patterns (B10)</li> <li>Moss Trim Lines (B16)</li> <li>Dry-Season Water Table (C2)</li> <li>Crayfish Burrows (C8)</li> <li>Saturation Visible on Aerial Imagery (C9)</li> <li>Stunted or Stressed Plants (D1)</li> <li>Geomorphic Position (D2)</li> <li>Shallow Aquitard (D3)</li> <li>Microtopographic Relief (D4)</li> <li>FAC-Neutral Test (D5)</li> </ul>
Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (stream g	Yes No _ <b>_</b> Yes No _ <b>_</b> Yes _ <b>_</b> _ No auge, monitoring well, ae	Wetland Hydrology Present? Yes No available:		
Remarks:				

Sampling Point: W-BTF-05\_UPL-7

Tree Stratum (Plot size: <u>30 ft</u> )	Absolute	Dominant	Indicator	Dominance Test worksheet:		
	% Cover	Species?	Status	Number of Dominant Species That	2	(A)
1. <u>Picea rubens</u>	90	Yes	FACU	Total Number of Dominant Species		
2	. <u> </u>	·		Across All Strata:	4	(B)
3	. <u> </u>			Percent of Dominant Species That		( , , , , , , , , , , , , , , , , , , ,
4.	. <u> </u>	·		Are OBL, FACW, or FAC:	50	(A/B)
5.	. <u> </u>			Prevalence Index worksheet:		
6.	. <u> </u>			Total % Cover of:	<u>Multiply</u>	<u>By:</u>
7		Tabal Car		OBL species 0	x 1 =	0
Carling/Church Stratum (Distaine) 15 ft	90	= Total Cove	er	FACW species 0	x 2 =	0
Saping/Shrub Stratum (Plot size:)	-	Vec	FAC.	FAC species 15	x 3 =	45
	5	res	FAC	FACU species 90	x 4 =	360
2.				UPL species 6	x 5 =	30
3.				Column Totals 111	(A)	435 (B)
4				Prevalence Index = B/A =	3.9	
s				Hydrophytic Vegetation Indicators:		
o				1- Rapid Test for Hydrophytic \	/egetation	l
/		Tabal Carr		2 - Dominance Test is > 50%		
Hards Chartering (Distring C ft. )	5	= 10tal Cove	er	3 - Prevalence Index is ≤ $3.0^1$		
Herb Stratum (Plot size: <u>5 ft</u> )	10	Vee	FAC	4 - Morphological Adaptations	<sup>1</sup> (Provide	supporting
		Yes	FAC	data in Remarks or on a separate sh	neet)	
2. Fragaria vesca	0	res	UPL	Problematic Hydrophytic Vege	tation <sup>1</sup> (Ex	(plain)
3	·	<u> </u>		<sup>1</sup> Indicators of hydric soil and wetlan	d hydrolo	gy must be
4.	. <u> </u>			present, unless disturbed or proble	matic	
5.	. <u> </u>			Definitions of Vegetation Strata:		
6				Tree – Woody plants 3 in. (7.6 cm) o	r more in (	diameter at
7				breast height (DBH), regardless of h	eight.	
8				saping/shrub - woody plants less t	nan 3 in. L N tall	JBH and
9	. <u> </u>			Herb – All herbaceous (non-woody)	nlants reg	tardlass of
10				size, and woody plants less than 3.2	8 ft tall.	50101055 01
11	. <u> </u>			Woody vines – All woody vines grea	ter than 3	.28 ft in
12				height.		
	16	= lotal Cove	er	Hydrophytic Vegetation Present?	Yes N	lo ./
Woody Vine Stratum (Plot size: <u>30 ft</u> )						<u> </u>
1						
2.						
3.						
4		Tabal Car				
	0	= 10tal Cove	er			
Remarks: (Include photo numbers here or on a separat	e sheet.)					

Enches)         Color (moist)         %         Color (moist)         %         Type!         Loc?         Texture         Remarks           010         7.5YR 3/2         100	Depth	Matrix		Redox	Feat	tures			-
010       7.5YR 3/2       100	(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Text	ure Remarks
10.18       7.5YR 4/2       100	0 - 10	7.5YR 3/2	100					Silt Lo	pam
IOVR 4/2       Clay         IOVR 4/2       Clay         IOVR 4/2       Clay         Indicators:       Indicators:         Indicators:       Indicators:         Histic Spledon (A2)       Thin Dark Surface (S8) (LRR k, LN 1498)         Istic Epideon (A2)       Thin Dark Surface (S8) (LRR k, LN 1498)         Stratfiel Layers (A3)       Loarny Mucky Mineral (F1) (LRR k, L)         Stratfiel Layers (A3)       Depleted Matrix (F2)         Depleted Bolow Surface (F6)       Polyalue Below Surface (F7)         Thin Dark Surface (F1)       Depleted Matrix (F3)         Depleted Bolow Surface (F6)       Polyalue Below Surface (F7)         Stratfiel Layers (A5)       Depleted Dark Surface (F7)         Stratfiel Layers (A5)       Reidow Dark Surface (F12) (LRR k, L)         Dark Surface (S7) (LRR k, L)       Meterial (F21)         Stratfiel Layers (A1)       Reidow Dark Surface (F7)         Dark Surface (S7) (LRR k, L)       Meterial (F21)         Dark Surface (S7) (LRR k, L)       Meterial (F21) <t< td=""><td>10 - 18</td><td>7.5YR 4/2</td><td>100</td><td></td><td>_</td><td></td><td></td><td>Silty Cla</td><td>/ Loam</td></t<>	10 - 18	7.5YR 4/2	100		_			Silty Cla	/ Loam
ype: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains.       *Location: PL = Pore Lining, M = Matrix.         witcs Soil Indicators:       Indicators for Problematic Hydric Soils*:         Histosoi (A1)       Polyvalue Below Surface (S3) (LRR R, MLRA 1498)         Histosoi (A2)       Thin Dark Surface (S3) (LRR R, MLRA 1498)         Laamy Mukely Mineral (F1)       S m Muck (A10) (LRR K, L, MLRA 1498)         Hydrogen Sulfide (A4)       Loamy Gieyed Matrix (F2)         Depleted Below Dark Surface (A11)       Depleted Matrix (F2)         Sandy Mucky Mineral (F1)       Polyvalue Below Surface (S3) (LRR K, L)         Sandy Mucky Mineral (F1)       Polytale Matrix (F3)         Sandy Mucky Mineral (F1)       Polytale Matrix (F3)         Sandy Mucky Mineral (F1)       Redox Dark Surface (F7)         Think Dark Surface (F3)       Polytalue Below Surface (F12) (LRR K, L)         Sandy Micky Mineral (F1)       Redox Dark Surface (F7)         Sandy Micky (S4)       Polytale Matrix (F3)         Simped Matrix (F3)       Polytale Matrix (F12)         Dark Surface (F7) (LRR K, L)       Red Parent Matrix (F14), L         Simpled Matrix (S6)       West Capability Simplematrial (F21), C         Dark Surface (F7) (LRR K, MLRA 149B)       Other (Explain in Remarks)         Indicators of hydrophytic vegetation and wetland hydrology must be present, unles		10YR 4/2						Cla	γ
Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains.       *Location: PL = Pore Lining, M = Matrix.         Indicators:       Indicators for Problematic Hydric Soils?         Histosol (A1)       Polyvalue Below Surface (S9) (LRR R, MLRA 149B)					_				·
Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains.       *Location: PL = Pore Lining, M = Matrix.         Histosol (A1)       Polyvalue Below Surface (S9) (LRR R, MLRA 1498)					_				
Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains.       *Location: PL = Pore Lining, M = Matrix.         Indicators for Poblematic Hydrix Solis?       Indicators for Poblematic Hydrix Solis?         Histosol (A1)       Polyvalue Below Surface (S9) (LRR R, MLRA 1498)       _2 cm Muck (A10) (LRR K, L, RA 1498)					—				
Typer: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. *Location: PL = Pore Lining, M = Matrix.         Indicators:       Indicators indicators:         Histosol (A1)       Polyvalue Below Surface (S9) (LRR R, MLRA 1498)         Histo Epipedon (A2)       Thin Dark Surface (S9) (LRR R, MLRA 1498)         Stratified Layers (A5)       Depleted Matrix (F2)         Stratified Layers (A5)       Depleted Matrix (F2)         Stratified Layers (A5)       Depleted Matrix (F3)         Sandy Mucky Mineral (S1)       Redox Dark Surface (F6)         Thick Dark Surface (A12)       Depleted Dark Surface (F7)         Sandy Gleyed Matrix (S4)       Piedmont Floodplain Soils (F19) (MLRA 145, 145         Sandy Gleyed Matrix (S6)       Wery Shallow Dark Surface (F7)         Dark Surface (S7) (LRR K, LR       Red Parent Material (F21)         Dark Surface (S7)       Redox Depressions (F8)         Sandy Mucky (S6)       Other (Explain in Remarks)         Dark Surface (S7) (LRR K, LR       Mesic Spocia (Tr66) (MLRA 144, 145, 145         Sandy Redox (S5)       Other (Explain in Remarks)         Dark Surface (S7) (LRR K, MLRA 1498)       Other (Explain in Remarks)         Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.       estrictive dark Surface (S0) (Present?         Yes:       None	<u> </u>				—				
ype: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains.       *Location: PL = Pore Lining, M = Matrix.         Indicators:       Indicators for Problematic Hydric Soils?         Histosol (A1)       Polyvalue Below Surface (S9) (LRR R, MLRA 1499)       2 cm Muck (A10) (LRR K, L, MLRA 1499)         Histosol (A2)       Thin Dark Surface (S9) (LRR R, MLRA 1499)       Coast Prairie Redox (A16) (LRR K, L R)         Black Histic (A3)       Depited Matrix (F2)       Dark Surface (S10) (LRR K, L)         Stratified Layers (A3)       Depleted Matrix (F3)       Polyvalue Below Surface (S10) (LRR K, L)         Stratified Layers (A1)       Redox Depressions (F8)       Polyvalue Below Surface (S10) (LRR K, L)         Sandy Microl (S1)       Redox Depressions (F8)       Poletone Hoodpilan Soils (F12) (MLRA 144, 145, 145         Sandy Gleyed Matrix (S6)       Generative (S7) (LRR K, L)       Sandy Microl (S1)         Sandy Redox (S5)       Sandy Redox (S5)       Coast Praine Remarks)         Dark Surface (S7) (LRR R, MLRA 1498)       Other (Explain in Remarks)         ndicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.       Sardy Gleyed Matrix (S6)         Sardy Gleyet (inches):       None       Hydric Soil Present?       Yes									
Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains.       *Location: PL = Pore Lining, M = Matrix.         Indicators:       Indicators for Problematic Hydric Soils?:         Histic Epipedon (A2)       Thin Dark Surface (S9) (LRR R, MLRA 1499)       2 cm Muck (A10) (LRR K, L, RA 1499)         Black Histic (A3)       Loamy Mucky Mineral (F1) (LRR K, L)       5 cm Mucky Peat or Peat (S3) (LRR K, L R, Pd 447)         Stratified Layers (A5)       Depleted Matrix (F3)       Depleted Matrix (F3)         Depleted Balow Dark Surface (A11)       Redox Dark Surface (F7)       Thin Dark Surface (S3) (LRR K, L)         Stratified Layers (A5)       Depleted Dark Surface (F7)       Thin Dark Surface (S3) (LRR K, L)         Stratified Gady Surface (S3)       Redox Depressions (F8)       Polyvalue Below Surface (S3) (LRR K, L)         Stripped Matrix (S4)       Stripped Matrix (S6)       Red Parent Material (F12)         Dark Surface (S7) (LRR R, MLRA 1498)       Very Shallow Dark Surface (F7)         Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.         estrictive Layer (if observed):       None         Type:       None         Upplyth (inches):       Hydric Soil Present?       Yes No					—				
ype: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains.       *Location: PL = Pore Lining, M = Matrix.         ypirc Soil Indicators:       Indicators for Problematic Hydric Soils?         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, MLRA 1499)       2 cm Muck (A10) (LRR K, L, RLRA 1499)         Histic Epipedon (A2)       Thin Dark Surface (S9) (LRR K, L)       5 cm Mucky Peat or Peat (S3) (LRR K, L, R         Hydrogen Suffde (A4)       Loamy Gleyed Matrix (F2)       Dark Surface (S7) (LRR K, L)         Stratified Layers (A5)       Depleted Matrix (F3)       Polyvalue Below Surface (S9) (LRR K, L)         Stratified Layers (A5)       Depleted Dark Surface (F6)       Thin Dark Surface (S9) (LRR K, L)         Thin Dark Surface (S1)       Red Dark Surface (F7)       Thin Dark Surface (F9) (MLR K, L)         Sandy Gleyed Matrix (S6)       Polyvalue Below Surface (F7)       Thin Dark Surface (F9) (MLR K, L)         Sandy Redox (S5)       Red Parent Material (F21)       Polyvalue Relow Surface (F9) (MLR A 144A, 145, 145         Stripped Matrix (S6)       Other (Explain in Remarks)       Other (Explain in Remarks)         Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.       term. No         Type:       None       Hydric Soil Present?       Yes< No					—				
ype: C = concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains.       ?Location: PL = Pore Lining, M = Matrix.         ydric Soil Indicators:       Indicators for Problematic Hydric Soils?:         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, MLRA 149B)       2 cm Muck (A10) (LRR K, L MLRA 149B)         Black Histic (A3)       Loamy Gleyed Matrix (F2)       Coast Praine Redox (A16) (LRR K, L)         Hydrogen Sulfde (A4)       Loamy Gleyed Matrix (F2)       Dark Surface (S7) (LRR K, L)         Stratified Layers (A5)       Depleted Bark Surface (F7)       Thin Dark Surface (S9) (LRR K, L)         Thick Dark Surface (A11)       Redox Dark Surface (F7)       Thin Amark Surface (S9) (LRR K, L)         Sandy Gleyed Matrix (S4)       Depleted Matrix (S4)       Pledmont Floodplain Soils (F19) (MLRA 144A, 145, 145         Sandy Redox (S5)       Starface (S7) (LRR K, MLRA 149B)       Very Shallow Dark Surface (T71)         Dark Surface (S7) (LRR K, MLRA 1449B)       Very Shallow Dark Surface (T72)       Thin Mark 144A, 145, 145         Starface (S7) (LRR K, MLRA 149B)       Very Shallow Dark Surface (T72)       Dark Surface (S72) (LRR K, L)         Starface (S7) (LRR K, MLRA 149B)       Very Shallow Dark Surface (T72)       Thin Mark 144A, 145, 145         Starface (S7) (LRR K, MLRA 149B)       Very Shallow Dark Surface (T72)       Very Shallow Dark Surface (T72)         Dark Surface (S7) (LRR K, MLRA 149B)					—				
ype: C = concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains.       *Location: PL = Pore Lining, M = Matrix.         ydric Soil Indicators:       Indicators for Problematic Hydric Soils?:         Histosoi (A1)					—				
ype: Contentiators:       Indicators for Problematic Hydric Solls?		oncontration D -		n PM - Poducod	Mat	riv MS -	Maskod	Sand Grains 21	ecation: PL - Poro Liping M - Matrix
Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, MLRA 149B)         Histosol (A2)       Thin Dark Surface (S9) (LRR R, MLRA 149B)         Black Histic (A3)       Loamy Mucky Mineral (F1) (LRR K, L)         Black Histic (A3)       Damy Gleyed Matrix (F2)         Stratified Layers (A5)       Depleted Matrix (F2)         Depleted Below Dark Surface (A11)       Redox Dark Surface (F6)         Thick Dark Surface (S12)       Depleted Dark Surface (S9) (LRR K, L)         Sandy Mucky Mineral (S1)       Redox Depressions (F8)         Sandy Geleyed Matrix (S4)       Depleted Dark Surface (S7)         Sandy Rdox (S5)       Red Parent Material (F21)         Dark Surface (S7) (LRR R, MLRA 149B)       Other Material (F21)         Stripped Matrix (S6)       Red Parent Material (F21)         Dark Surface (S7) (LRR R, MLRA 149B)       Other (Explain in Remarks)         Idicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.         strictive Layer (ff Observed):       Yrpe:         Type:       None         Upth (inches):       Yrpe:         Works:       Yes No         Yrpe:       None         Upth (inches):       Yes No         Yrpe:       None         Upth (inches):       Yes No         Yrpe	ype. c – c		Depietio	n, Kivi – Reduced	widt	i i X, IVIS =	wasked		
Instruct (149)     Instruct		(A1)			0.W/ C	urface (C	י ממו/ (פ		
Loamy Mucky Mineral (F1) (LRR K, L)     Scm Mucky Peat or Peat (S3) (LRR K, L, R     Hydrogen Sulfide (A4)     Loamy Gleyed Matrix (F2)     Stratified Layers (A5)     Depleted Matrix (F3)     Depleted Below Dark Surface (A11)     Redox Dark Surface (F7)     Thic Dark Surface (A12)     Depleted Dark Surface (F7)     Thic Dark Surface (A12)     Sandy Mucky Mineral (S1)     Redox Depressions (F8)     Sandy Redox (S5)     Sandy Redox (S5)     Stratified (S7) (LRR R, MLRA 149B)     Stratified (S7) (LRR R, MLRA 149B)     Net Surface (F7)     Type:     None     Hydric Soil Present?     Yes No      Hydric Soil Present?     Yes No      Hydric Soil Present?     Yes No	Histic Fr	nipedon (A2)		Thin Dark Sur	uw S face	(S9) (I RR		, wilitva 149D) \ 149B)	2 cm Muck (A10) (LRR K, L, MLRA 149B)
	Black Hi	stic (A3)		Loamv Mucky	/ Min	ieral (F1)	(LRR K. L	)	Coast Prairie Redox (A16) (LRR K, L, R)
	_ _ Hydroge	en Sulfide (A4)		Loamy Gleyed	d Ma	trix (F2)	(	*	5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
	Stratifie	d Layers (A5)		Depleted Mat	rix (F	=3)			Dark Surface (S7) (LRR K, L)
Thick Dark Surface (A12) Depleted Dark Surface (F7) Inno-Manganese Masses (F12) (LRR k, L,	_ Deplete	d Below Dark Surfa	ace (A11)	Redox Dark S	urfa	ce (F6)			Thin Dark Surface (SQ) (I PP K 1)
	_ Thick Da	ark Surface (A12)		Depleted Dar	k Su	rface (F7)			Iron-Manganese Masses (F12) (I RR K   R)
Sandy Gleyed Matrix (S4) Mesic Spodic (TA6) (MLRA 144A, 145, 145 Sandy Redox (S5) Mesic Spodic (TA6) (MLRA 144A, 145, 145 Red Parent Material (F21) 	_ Sandy N	lucky Mineral (S1)		Redox Depre	ssior	ns (F8)			Piedmont Floodplain Soils (F19) (MI RA 149F
Sandy Redox (S5)Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12)Other (Explain in Remarks) ndicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. estrictive Layer (if observed): 	_ Sandy G	leyed Matrix (S4)							Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
Stripped Matrix (S6) Very Shallow Dark Surface (TF12)Other (Explain in Remarks)Other (Explain in Remarks)	Sandy R	edox (S5)							Red Parent Material (F21)
Dark Surface (\$7) (LRR R, MLRA 1498)Other (Explain in Remarks)	Stripped	d Matrix (S6)							
ndicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.  estrictive Layer (if observed): Type: None Hydric Soil Present? YesNo< Depth (inches): emarks:	_ Dark Su	rface (S7) <b>(LRR R, N</b>	/LRA 149	9B)					Other (Explain in Remarks)
estrictive Layer (if observed):           Type:         None           Depth (inches):         Hydric Soil Present?   remarks:	ndicators	of hydrophytic yeg	etation a	and wetland hydr	റിറ്റെ	v must be	- presen	t. unless disturbe	d or problematic
Type: <u>None</u> Depth (inches): emarks: Yes <u>No </u>	estrictive I	aver (if observed):			0.	,		-,	
Depth (inches):		Type:		None			Hydric	Soil Present?	Yes No /
emarks:		Denth (inches)		Hone			inguine	Son Present.	
		Deptil (inches).							
	indiks.								

Vegetation Photos



Soil Photos



Northcentral and Northeast Region -- Version 2.0 Adapted by TRC







Photo of Sample Plot East Photo of Sample Plot South



Photo of Sample Plot West

Project/Site: Riverside Solar City/County: C				nt, Jefferson			Sampling Date:	2020-June-03
Applicant/Owner: Geronimo				State: NY			Sampling Point: \	W-BTF-06_PEM-1
Investigator(s): Bren	ner Fahrenz, E	Bridgette Rooney, Be	n Popham	Section, Towr	nship, Ra	nge:		
Landform (hillslope, te	rrace, etc.):	Depression	Loca	l relief (concave,	, convex,	, none):	Concave	Slope (%): 0 to 1
Subregion (LRR or MLF	RA): LRR F	R		Lat: 44.06820	050401	Long:	-76.0614165582	Datum: WGS84
Soil Map Unit Name:	KgAKingsbu	ury silty clay, 0 to 2 pe	ercent slopes			_	NWI classific	ation:
Are climatic/hydrologic	conditions or	the site typical for t	his time of year?	Yes 🟒	No	(If no	o, explain in Rema	rks.)
Are Vegetation,	Soil 🟒,	or Hydrology si	ignificantly disturb	ed? Are "l	Normal (	Circums	tances" present?	Yes No 🟒
Are Vegetation,	Soil,	or Hydrology n	aturally problemat	ic? (If nee	eded, ex	plain an	y answers in Rem	arks.)

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

Hydrophytic Vegetation Present?	Yes 🟒 No		
Hydric Soil Present?	Yes 🟒 No	Is the Sampled Area within a Wetland?	Yes 🯒 No
Wetland Hydrology Present?	Yes 🟒 No	lf yes, optional Wetland Site ID:	W-BTF-06
Remarks: (Explain alternative procedures he	ere or in a separate report	)	
Covertype is PEM. ATV/ORV impacts observe	ed. Circumstances are not	normal due to agricultural activities.	

Wetland Hydrology Indicators:				
Primary Indicators (minimum of or	ne is required; check all that	t apply)		Secondary Indicators (minimum of two required)
Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2)	Water-Sta Aquatic Fa Marl Depo Hydrogen Oxidized F	ined Leaves (B9) auna (B13) osits (B15) Sulfide Odor (C1) Rhizospheres on Living R	Roots (C3)	<ul> <li> Surface Soil Cracks (B6)</li> <li> Drainage Patterns (B10)</li> <li> Moss Trim Lines (B16)</li> <li> Dry-Season Water Table (C2)</li> <li> Crayfish Burrows (C8)</li> <li>✓ Saturation Visible on Aerial Imagery (C9)</li> </ul>
<ul> <li>Drift Deposits (B3)</li> <li>Algal Mat or Crust (B4)</li> <li>Iron Deposits (B5)</li> <li>Inundation Visible on Aerial Image Sparsely Vegetated Concave Subsection /li></ul>	Presence of Recent Iro Thin Muck agery (B7) Other (Exp ırface (B8)	of Reduced Iron (C4) on Reduction in Tilled Soi ‹ Surface (C7) olain in Remarks)	ils (C6)	<ul> <li>Stunted or Stressed Plants (D1)</li> <li>Geomorphic Position (D2)</li> <li>Shallow Aquitard (D3)</li> <li>Microtopographic Relief (D4)</li> <li>FAC-Neutral Test (D5)</li> </ul>
Field Observations:				
Surface Water Present?	Yes No 🟒	Depth (inches):		
Water Table Present?	Yes No 🟒	Depth (inches):		Wetland Hydrology Present? Yes No
Saturation Present?	Yes 🟒 No	Depth (inches):	18	
(includes capillary fringe)				
Describe Recorded Data (stream g	auge, monitoring well, aeria	al photos, previous inspe	ections), if	available:

Sampling Point: W-BTF-06\_PEM-1

1.       Ulmus americana       15       Yes       F4         2.	dicator Dom Status Num	n <mark>inance Test worksh</mark> nber of Dominant S	n <b>eet:</b> pecies That	6	
2.	FACW Are C	OBL, FACW, or FAC:		0	(A)
3.	Total	l Number of Domin	ant Species	6	(B)
4.	Acros	ss All Strata:			(2)
5.	Perce Are C	ent of Dominant Sp OBL, FACW, or FAC:	pecies That	100	(A/B)
6	Preva	alence Index works	heet:		
15       = Total Cover         Sapling/Shrub Stratum (Plot size: _15 ft)       5       Yes       F         1.       Cornus racemosa       5       Yes       F         2.		Total % Cover	<u>of:</u>	Multiply	By:
15 = Total Cover         Sapling/Shrub Stratum (Plot size: _15 ft)         1.       Cornus racemosa       5       Yes       F         2.	OBL 9	species	45	x 1 =	45
Sapling/Shrub Stratum (Plot size: _15 ft)         1.       Cornus racemosa       5       Yes       F         2.	FACW	V species	50	x 2 =	100
1.       Cornus racemosa       5       Yes       F         2.	FAC s	species	5	x 3 =	15
2.	FAC FACU	J species	0	x 4 =	0
3.	UPL s	species —	0	x 5 =	0
4.	Colur		100	(A)	160 (B)
5.		Prevalence In	dex = B/A =	16	100 (5)
6.			Judiesterne		
7.       5       = Total Cover         Herb Stratum (Plot size: _5 ft)       35       Yes       F4         1.       Phalaris arundinacea       35       Yes       F4         2.       Carex canescens       15       Yes       C         3.       Glyceria striata       15       Yes       C         4.       Juncus effusus       15       Yes       C         5.	Hydr	1 Danid Test for U	indicators:	/	
5       = Total Cover         Herb Stratum (Plot size: _5 ft)       35       Yes       F4         2. Carex canescens       15       Yes       C         3. Glyceria striata       15       Yes       C         4. Juncus effusus       15       Yes       C         5.       15       Yes       C         6.       15       Yes       C         7.       15       Yes       C         8.       15       Yes       C         9.       1       1       1         10.       1       1       1       1         11.       1       1       1       1         12.       80       = Total Cover       80       = Total Cover         Woody Vine Stratum (Plot size: _30 ft)       0       1       1         1.       0       1       1       1       1         2       0       1       1       1       1       1				regetation	
Herb Stratum (Plot size: _5 ft)         1.       Phalaris arundinacea       35       Yes       FA         2.       Carex canescens       15       Yes       C         3.       Glyceria striata       15       Yes       C         4.       Juncus effusus       15       Yes       C         5.		2 - Dominance les	SUIS >50%		
1.       Phalaris arundinacea       35       Yes       F4         2.       Carex canescens       15       Yes       0         3.       Glyceria striata       15       Yes       0         4.       Juncus effusus       15       Yes       0         5.		_ 3 - Prevalence ind	exis≤3.0' Adamtatiana1	1 (Duessiele	
2.       Carex canescens       15       Yes       0         3.       Glyceria striata       15       Yes       0         4.       Juncus effusus       15       Yes       0         5.	FACW data	_4 - Morphological	Adaptations	(Provide	supporting
3.       Glyceria striata       15       Yes       0         4.       Juncus effusus       15       Yes       0         5.	OBL	Problematic Hydro	nhytic Vege	tation <sup>1</sup> (Ex	nlain)
4. Juncus effusus       15       Yes       0         5.	OBL Indi	cators of hydric soi	l and wetlan		ov must he
5	OBL prese	ent. unless disturbe	ed or probler	matic	by must be
6	Defir	nitions of Vegetatio	n Strata:		
7.	Tree	– Woody plants 3 i	n. (7.6 cm) or	r more in a	diameter at
8.	brea	ist height (DBH), reg	gardless of h	eight.	
9	Sapli	ing/shrub - Woody	plants less tl	han 3 in. D	OBH and
10.	great	ter than or equal to	o 3.28 ft (1 m	) tall.	
11.	Herb	o – All herbaceous (	non-woody)	plants, reg	gardless of
12.     80     = Total Cover       Woody Vine Stratum (Plot size:30 ft)     0	size,	and woody plants	less than 3.2	8 ft tall.	
80         = Total Cover           Woody Vine Stratum (Plot size:30 ft)         0           1.         0           2         0	Woo	<b>dy vines</b> – All wood	ly vines great	ter than 3.	.28 ft in
Woody Vine Stratum (Plot size:30 ft)           10           2.	heigh	ht.			
1 0	Hyd	Irophytic Vegetatio	n Present?	Yes 🟒 N	lo
2					
3					
۶					
4					
= lotal Cover					

Profile Desc	ription: (Describe	to the	depth needed to	docu	ment the	e indicator	or confirm the al	osence of indicat	tors.)
(inchos)	Color (moist)	04	Color (moist)	x rea	Typo1	1002	Toxt	150	Bomarka
				<u> </u>			Silty Clay		Remarks
10 20	10TR 3/1	90	101R 5/8	10			Silty Clay		
10-20	1018 4/1		1018 5/6	15	<u> </u>	IVI	Silty C	ldy	
						<u> </u>			
<sup>1</sup> Type: C = C	oncentration, D =	Deple	tion, RM = Reduce	ed Ma	trix, MS :	= Masked	Sand Grains. <sup>2</sup> Lo	ocation: PL = Por	re Lining, M = Matrix.
Hydric Soil	Indicators:							Indicators for F	Problematic Hydric Soils <sup>3</sup> :
Histosol	(A1)		Polyvalue E	Below	Surface (	(58) (LRR F	R, MLRA 149B)	2 cm Muck	(A10) (LRR K, L, MLRA 149B)
Histic Ep	oipedon (A2)		I nin Dark S	ourtac	e (59) <b>(LF</b>	א K K, MLRA ער אי מפווי	N 149B) N	Coast Prair	ie Redox (A16) <b>(LRR K, L, R)</b>
	suc (AS) an Sulfide (AA)			.ky ivii /ed M	atrix (F2)	) (LKK N, L	)	5 cm Muck	y Peat or Peat (S3) <b>(LRR K, L, R)</b>
Stratifie	d Lavers (A5)		Depleted M	latrix	(F3)			Dark Surfa	ce (S7) <b>(LRR K, L)</b>
Deplete	d Below Dark Surf	ace (A	11)_✓ Redox Darl	c Surfa	ace (F6)			Polyvalue E	Below Surface (S8) (LRR K, L)
Thick Da	ark Surface (A12)		Depleted D	ark Sı	urface (F	7)		Thin Dark S	Surface (S9) (LRR K, L)
Sandy N	1ucky Mineral (S1)		Redox Dep	ressic	ons (F8)			Iron-Manga	anese Masses (F12) (LRR K, L, R)
Sandy G	ileyed Matrix (S4)							Pleamont H	
Sandy R	edox (S5)							Mesic Spot	Matorial (E21)
Stripped	d Matrix (S6)							Very Shallo	w Dark Surface (TE12)
Dark Su	rface (S7) <b>(LRR R, I</b>	MLRA 1	49B)					Other (Expl	lain in Remarks)
Indicators	of bydropbytic yo	rotatio	n and wotland by	drolo	m ( must l	ha procop	t uplace disturba	d or problematic	_
Restrictive I	ayer (if observed)	;:	n and wettand hy		gy must i		i, uniess disturbe		
	Туре:		None			Hydric S	oil Present?		Yes No
	Depth (inches):			-		-			
Remarks:									
1									

## Vegetation Photos



Soil Photos



Photo of Sample Plot South

Project/Site: Riverside Solar	City/County: Chaumont, Jefferson	Sampling Date: 2020-June-03
Applicant/Owner: Geronimo	State: NY	Sampling Point: W-BTF-06_UPL-1
Investigator(s): Brenner Fahrenz, Bridgette Roone	ey, Ben Popham Section, Township, Range:	
Landform (hillslope, terrace, etc.): Low Hill	Local relief (concave, convex, none)	None Slope (%): 0 to 1
Subregion (LRR or MLRA): LRR R	Lat: 44.068153227 Long	-76.0617245141 Datum: WGS84
Soil Map Unit Name: KgAKingsbury silty clay, 0 t	to 2 percent slopes	NWI classification:
Are climatic/hydrologic conditions on the site typica	al for this time of year? Yes _∠_ No (If n	o, explain in Remarks.)
Are Vegetation, Soil, or Hydrology _	significantly disturbed? Are "Normal Circums	stances" present? Yes No 🟒
Are Vegetation, Soil, or Hydrology _	naturally problematic? (If needed, explain a	ny answers in Remarks.)

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

Hydrophytic Vegetation Present?	Yes No 🟒								
Hydric Soil Present?	Yes 🟒 No	Is the Sampled Area within a Wetland?	Yes No 🟒						
Wetland Hydrology Present? Yes No If yes, optional Wetland Site ID:									
Remarks: (Explain alternative procedures he	Remarks: (Explain alternative procedures here or in a separate report)								
Covertype is UPL. Circumstances are not normal due to mowing of vegetation. Circumstances are not normal due to agricultural activities. ATV/ORV									
impacts observed.									

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

Sampling Point: W-BTF-06\_UPL-1

<u>Tree Stratum</u> (Plot size: <u>30 ft</u> )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test wor Number of Dominan	<b>ksheet:</b> t Species That	0	(Δ)
1.	0			Are OBL, FACW, or FA	AC:		(~)
2.				Total Number of Dor Across All Strata:	ninant Species	2	(B)
4.				Percent of Dominant	Species That	0	(A/B)
5				Brovalance Index wa	rkchoot		
6.				Total % Cov	or of:	Multiph	, Dr.
7.					<u>er or.</u>	v 1 –	<u>, ру.</u>
	0	= Total Cov	er	EACW species		x 1 -	0
Sapling/Shrub Stratum (Plot size: <u>15 ft</u> )		-		EAC species		x 2 -	0
1.	0			FAC species		x 5 -	30
2.				- FACO species	90	x 4 =	360
3.				- UPL species	0	x 5 =	0
4.				- Column lotals	100	(A)	390 (B)
5.	·			- Prevalence	e Index = B/A =	3.9	
6				Hydrophytic Vegetat	ion Indicators:		
7				1- Rapid Test fo	r Hydrophytic V	/egetatio	n
		= Total Cov	or	2 - Dominance	Test is > 50%		
Herb Stratum (Plot size: 5 ft )	0	- 10001 000	CI	3 - Prevalence I	ndex is $\leq 3.0^1$		
1 Pop protensis	40	Voc	FACU	4 - Morphologie	al Adaptations <sup>1</sup>	<sup>1</sup> (Provide	e supporting
2 Bhloum protonco		Voc	EACU	- data in Remarks or c	on a separate sh	neet)	
2. Filleuni platense		No	FACU	Problematic Hy	drophytic Vege	tation <sup>1</sup> (E	xplain)
			FACU	<sup>1</sup> Indicators of hydric	soil and wetlan	d hydrol	ogy must be
4. Euonymus americanus			FAC	present, unless distu	irbed or problei	matic	
5. Trifolium repens		<u>No</u>	FACU	Definitions of Vegeta	ition Strata:		
<ol> <li>Galium mollugo</li> <li>7.</li> </ol>	5	No	FACU	Tree – Woody plants breast height (DBH).	3 in. (7.6 cm) or regardless of h	r more in eight.	diameter at
8.	·			- Sapling/shrub - Woo	dy plants less t	han 3 in.	DBH and
9				greater than or equa	ll to 3.28 ft (1 m	) tall.	
10				Herb – All herbaceou	ıs (non-woody)	plants, re	egardless of
11				size, and woody plar	its less than 3.2	8 ft tall.	
12	,,			Woody vines – All wo	ody vines great	ter than 3	3.28 ft in
	100	= Total Cov	or	height.			
Woody Vine Stratum (Plot size: 30 ft )	100	<u>- 10tal COV</u>	ci	Hydrophytic Vegeta	tion Present?	Yes	No 🟒
1.	0						
2				-			
3				-			
A.				-			
4	0	= Total Cov	er	-			
		-					
Remarks: (Include photo numbers here or on a se	eparate sheet.)						

## Sampling Point: W-BTF-06\_UPL-1

(inches)	Matrix		Redox	k Feat	ures	indicator or confirm	i the absence of indic	alors.)
111111231	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0 - 10	10YR 3/1	95	10YR 5/8	5	<u></u> C	PL Si	ltv Clav Loam	
10 - 20	10YR 4/1	90	10YR 5/8	10	C		Clav	
<u> </u>								
			-		<u> </u>	·		
						·		
						·		
						·		
						·		<u> </u>
						·		
						·		
				- <u> </u>			2) a cationa DI - D	Martin
/pe: C = C	oncentration, D =	Depleti	on, RIVI = Reduce	d Mat	rix, ivis =	Masked Sand Grain	IS. <sup>2</sup> LOCATION: PL = P	pre Lining, M = Matrix.
			Dobastico D		urface (C		indicators for	Problematic Hydric Solis <sup>5</sup> :
Histic Er	(MI) Dipedon (A2)		Thin Dark St	rfaco	(SO) /I DE	ס) (נוגוג וא, ואונוגא 14 א MI א 170 און א	2 cm Muc	k (A10) (LRR K, L, MLRA 149B)
Black Hi	stic (A3)			kv Mir	(39) (EKR	(IRRKI)	Coast Pra	irie Redox (A16) <b>(LRR K, L, R)</b>
Hvdroge	en Sulfide (A4)		Loamy Gleve	ed Ma	trix (F2)		5 cm Muo	ky Peat or Peat (S3) <b>(LRR K, L, R)</b>
Stratifie	d Lavers (A5)		Depleted Ma	atrix (	F3)		Dark Surf	ace (S7) (LRR K, L)
_ _ Deplete	d Below Dark Surfa	ace (A1	1) Redox Dark	Surfa	ce (F6)		Polyvalue	Below Surface (S8) (LRR K, L)
_ Thick Da	ark Surface (A12)		Depleted Da	ark Su	rface (F7)	)	Inin Dark	Surface (S9) (LRR K, L)
_ Sandy N	lucky Mineral (S1)		Redox Depr	essior	ns (F8)		Iron-Man	ganese Masses (FI2) (LRR K, L, R)
_ Sandy G	ileyed Matrix (S4)						Pleamon	dia (TAC) (ALDA 144A 14E 140B)
_ Sandy R	edox (S5)						Iviesic spo	Duic (1A0) (MERA 144A, 145, 149B)
_ Stripped	l Matrix (S6)						Very Shal	low Dark Surface (TE12)
	6		19R)				Other (Ex	plain in Remarks)
_ Dark Su	rface (S7) <b>(LRR R, N</b>		158)					
_ Dark Su	rface (S7) <b>(LRR R, N</b>	otation	and wetland by	Irolog	v must b	o procont uplace di	sturbed or problems	tic
_ Dark Su	rface (S7) <b>(LRR R, M</b> of hydrophytic veg .aver (if observed):	etation	and wetland hyd	Irolog	y must be	e present, unless di	sturbed or problema	tic.
_ Dark Su ndicators estrictive L	rtace (S7) <b>(LRR R, M</b> of hydrophytic veg <b>.ayer (if observed):</b> Type:	etation	and wetland hyc	Irolog	y must be	e present, unless di Hydric Soil Preser	sturbed or problema	tic. Yes 🖌 No
_ Dark Su ndicators estrictive L	rtace (S7) <b>(LRR R, M</b> of hydrophytic veg .ayer (if observed): Type: Depth (inches):	etation	and wetland hyc	Irolog	y must be	e present, unless di Hydric Soil Preser	sturbed or problema t?	tic. Yes No
_ Dark Su	rtace (S7) <b>(LRR R, N</b> of hydrophytic veg <b>.ayer (if observed):</b> Type: Depth (inches):	etation	and wetland hyc	Irolog	y must be	e present, unless di Hydric Soil Preser	sturbed or problema t?	tic. Yes _✔_ No
_ Dark Su ndicators estrictive L emarks:	rtace (S7) <b>(LRR R, N</b> of hydrophytic veg <b>.ayer (if observed):</b> Type: Depth (inches):	etation	and wetland hyc	lrolog	y must be	e present, unless di Hydric Soil Preser	sturbed or problema t?	tic. Yes _∠_ No
_ Dark Sundicators	rtace (S7) <b>(LRR R, N</b> of hydrophytic veg <b>.ayer (if observed):</b> Type: Depth (inches):	etation	and wetland hyc	lrolog 	y must be	e present, unless di Hydric Soil Preser	sturbed or problema t?	tic. Yes _✔_ No
_ Dark Su ndicators : estrictive I emarks:	rtace (S7) <b>(LRR R, N</b> of hydrophytic veg <b>.ayer (if observed):</b> Type: Depth (inches):	etation	and wetland hyc	lrolog	y must be	e present, unless di Hydric Soil Preser	sturbed or problema t?	tic. Yes _∠_ No
_ Dark Su ndicators ( strictive L marks:	rtace (S7) <b>(LRR R, N</b> of hydrophytic veg <b>.ayer (if observed):</b> Type: Depth (inches):	etation	and wetland hyd	Irolog	y must be	e present, unless di Hydric Soil Preser	sturbed or problema t?	tic. Yes _∠_ No
_ Dark Su ndicators strictive L marks:	rtace (S7) <b>(LRR R, N</b> of hydrophytic veg <b>.ayer (if observed):</b> Type: Depth (inches):	etation	and wetland hyo	Irolog	y must be	e present, unless di Hydric Soil Preser	sturbed or problema t?	tic. Yes _∠_ No
_ Dark Su ndicators strictive L marks:	rtace (S7) <b>(LRR R, N</b> of hydrophytic veg <b>.ayer (if observed):</b> Type: Depth (inches):	etation	and wetland hyd	Irolog 	y must bi	e present, unless di Hydric Soil Preser	sturbed or problema t?	tic. Yes _∠_ No
_ Dark Su ndicators d estrictive L emarks:	rtace (S7) <b>(LRR R, N</b> of hydrophytic veg <b>.ayer (if observed):</b> Type: Depth (inches):	etation	and wetland hyd	lrolog 	y must bi	e present, unless di Hydric Soil Preser	sturbed or problema t?	tic. Yes _✔_ No
_ Dark Su ndicators estrictive I	rtace (S7) <b>(LRR R, N</b> of hydrophytic veg <b>.ayer (if observed):</b> Type: Depth (inches):	etation	n and wetland hyd	Irolog -	y must bi	e present, unless di Hydric Soil Preser	sturbed or problema t?	tic. Yes No
_ Dark Su ndicators d estrictive I emarks:	rtace (S7) <b>(LRR R, N</b> of hydrophytic veg <b>.ayer (if observed):</b> Type: Depth (inches):	etation	None	Irolog -	y must bi	e present, unless di Hydric Soil Preser	sturbed or problema t?	tic. Yes No
_ Dark Su ndicators ( estrictive I emarks:	rtace (S7) <b>(LRR R, N</b> of hydrophytic veg <b>.ayer (if observed):</b> Type: Depth (inches):	etation	None	- -	y must bi	e present, unless di Hydric Soil Preser	sturbed or problema t?	ticYes No
_ Dark Su adicators of estrictive I	rtace (S7) <b>(LRR R, N</b> of hydrophytic veg <b>.ayer (if observed):</b> Type: Depth (inches):	etation	None	-	y must bi	e present, unless di Hydric Soil Preser	sturbed or problema t?	ticYesNo
_ Dark Su ndicators of estrictive I emarks:	rtace (S7) <b>(LRR R, N</b> of hydrophytic veg <b>.ayer (if observed):</b> Type: Depth (inches):	etation	None	irolog	y must bi	e present, unless di Hydric Soil Preser	sturbed or problema t?	ticYes No
_ Dark Su ndicators of estrictive I emarks:	rtace (S7) <b>(LRR R, N</b> of hydrophytic veg <b>.ayer (if observed):</b> Type: Depth (inches):	etation	None	-	y must bi	e present, unless di Hydric Soil Preser	sturbed or problema t?	ticYes No
Dark Su ndicators d estrictive I emarks:	rtace (S7) <b>(LRR R, N</b> of hydrophytic veg <b>.ayer (if observed):</b> Type: Depth (inches):	etation	None	- -	y must bi	e present, unless di Hydric Soil Preser	sturbed or problema t?	ticYes No
_ Dark Su ndicators d estrictive I	rtace (S7) <b>(LRR R, N</b> of hydrophytic veg <b>.ayer (if observed):</b> Type: Depth (inches):	etation	and wetland hyo	- -	y must be	e present, unless di Hydric Soil Preser	sturbed or problema t?	<u>Yes _                                   </u>
Dark Su ndicators d estrictive I emarks:	rtace (S7) <b>(LRR R, N</b> of hydrophytic veg <b>.ayer (if observed):</b> Type: Depth (inches):	etation	and wetland hyo	lrolog	y must be	e present, unless di Hydric Soil Preser	sturbed or problema t?	<u>Yes _                                   </u>
Dark Su ndicators d estrictive L emarks:	rtace (S7) <b>(LRR R, N</b> of hydrophytic veg <b>.ayer (if observed):</b> Type: Depth (inches):	etation	and wetland hyo	Irolog	y must be	e present, unless di Hydric Soil Preser	sturbed or problema t?	<u>Yes _                                   </u>
_ Dark Su ndicators : estrictive I emarks:	rtace (S7) <b>(LRR R, N</b> of hydrophytic veg <b>.ayer (if observed):</b> Type: Depth (inches):	etation	and wetland hyo	Irolog	y must be	e present, unless di Hydric Soil Preser	sturbed or problema t?	<u>Yes _                                   </u>
_ Dark Su ndicators : estrictive I emarks:	rtace (S7) <b>(LRR R, N</b> of hydrophytic veg <b>.ayer (if observed):</b> Type: Depth (inches):	etation	none	trolog	y must be	e present, unless di Hydric Soil Preser	sturbed or problema t?	<u>Yes _                                   </u>

Soil Photos



Photo of Sample Plot East Photo of Sample Plot West



Project/Site: Riversi	de Solar	City/Cou	unty: Chaumont, J	efferson			Sampling Date: 2020-June-04			
Applicant/Owner:	Geronimo			State:	NY		Sampling Point: W-BTF-07_PEM-1			
Investigator(s): Br	enner Fahrenz,	Bridgette Rooney, Ben Po	opham	Section, Town	ship, Rar	nge:				
Landform (hillslope,	terrace, etc.):	Depression	Local re	elief (concave,	convex,	none):	Concave	Slope (%):	1 to 3	
Subregion (LRR or M	LRA): LRR	R	l	at: 44.06989	04713	Long:	-76.0628322237	Datum: W	/GS84	
Soil Map Unit Name: GbBGaloo-Rock outcrop complex, 0 to 8 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 signif	ficantly disturbed	? Are "N	lormal Ci	ircums	tances" present?	Yes No	)_/_	
Are Vegetation,	Soil,	or Hydrology natur	rally problematic?	(If nee	ded, exp	lain ar	y answers in Rem	narks.)		

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

Hydrophytic Vegetation Present?	Yes _🖌 No		
Hydric Soil Present?	Yes 🟒 No	Is the Sampled Area within a Wetland?	Yes 🟒 No
Wetland Hydrology Present?	Yes 🟒 No	lf yes, optional Wetland Site ID:	W-BTF-07
Remarks: (Explain alternative procedures he	re or in a separate report	)	
Covertype is PEM. Circumstances are not no	rmal due to agricultural a	ctivities. Appears to be fallow pastureland	

Wetland Hydrology Indicators:				
Primary Indicators (minimum of o	ne is required; check all	that apply)		Secondary Indicators (minimum of two required)
<ul> <li> Surface Water (A1)</li> <li> High Water Table (A2)</li> <li> Saturation (A3)</li> <li> Water Marks (B1)</li> <li> Sediment Deposits (B2)</li> <li> Drift Deposits (B3)</li> <li> Algal Mat or Crust (B4)</li> <li> Iron Deposits (B5)</li> <li> Inundation Visible on Aerial Im</li> <li> Sparsely Vegetated Concave S</li> </ul>	Wate Aqua Marl Hydra Prese Recer Thin I nagery (B7) Other urface (B8)	r-Stained Leaves (B9) tic Fauna (B13) Deposits (B15) ogen Sulfide Odor (C1) zed Rhizospheres on Livir ence of Reduced Iron (C4) nt Iron Reduction in Tilled Muck Surface (C7) r (Explain in Remarks)	ng Roots (C3) Soils (C6)	<ul> <li>Surface Soil Cracks (B6)</li> <li>Drainage Patterns (B10)</li> <li>Moss Trim Lines (B16)</li> <li>Dry-Season Water Table (C2)</li> <li>Crayfish Burrows (C8)</li> <li>Saturation Visible on Aerial Imagery (C9)</li> <li>Stunted or Stressed Plants (D1)</li> <li>Geomorphic Position (D2)</li> <li>Shallow Aquitard (D3)</li> <li>Microtopographic Relief (D4)</li> <li>FAC-Neutral Test (D5)</li> </ul>
Field Observations: Surface Water Present? Water Table Present? Saturation Present?	Yes No _ <b>_</b> Yes No _ <b>_</b> Yes _ <b>_</b> _ No	Depth (inches): Depth (inches): Depth (inches):	9	_ 
Describe Recorded Data (stream a	gauge, monitoring well,	aerial photos, previous in	spections), if	available:
Remarks:				

Sampling Point: W-BTF-07\_PEM-1

<u>Tree Stratum</u> (Plot size: <u>30 ft</u> )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test works Number of Dominant	s <b>heet:</b> Species That	з	(A)
1.	0			Are OBL, FACW, or FAC	:		(//)
2.				<ul> <li>Total Number of Domi</li> <li>Across All Strata:</li> </ul>	nant Species	3	(B)
4.				Percent of Dominant S	pecies That	100	(A/B)
5				- Prevalence Index work	 rsheet		
6				- Total % Cover	of.	Multiply I	Rv.
7				- OBL species	90	x 1 =	90
	0	= Total Cov	er	FACW species	10	x 2 =	20
Sapling/Shrub Stratum (Plot size: <u>15 ft</u> )				FAC species	10	×2- ×2-	20
1. Cornus racemosa	15	Yes	FAC	FAC Species	15	x 5	45
2.				- FACO species	0	×4= _	0
3.				- UPL species	0	x 5 =	0
4.				- Column Totals	115	(A)	155 (B)
5				Prevalence I	ndex = B/A =	1.3	
S				- Hydrophytic Vegetatio	n Indicators:		
o				1- Rapid Test for	Hydrophytic V	/egetation	
7				2 - Dominance Te	est is >50%		
	15	= lotal Cov	er	3 - Prevalence Inc	dex is $\leq 3.0^1$		
<u>Herb Stratum</u> (Plot size: <u>5 ft</u> )				4 - Morphologica	l Adaptations	<sup>1</sup> (Provide s	supporting
1. Calamagrostis canadensis	65	Yes	OBL	data in Remarks or on	a separate sh	neet)	
2. <u>Scirpus microcarpus</u>	20	Yes	OBL	Problematic Hyd	rophytic Vege	tation <sup>1</sup> (Ex	plain)
3. <i>Phalaris arundinacea</i>	10	No	FACW	<sup>1</sup> Indicators of hydric so	oil and wetlan	d hydrolog	y must be
4. Juncus effusus	5	No	OBL	present, unless distur	oed or problei	matic	
5				Definitions of Vegetati	on Strata:		
6.				Tree – Woody plants 3	in. (7.6 cm) oi	r more in d	liameter at
7.				breast height (DBH), re	egardless of h	eight.	
8.				Sapling/shrub - Wood	y plants less t	han 3 in. D	BH and
9.				greater than or equal	to 3.28 ft (1 m	) tall.	
10.				Herb – All herbaceous	(non-woody)	plants, reg	ardless of
11.				size, and woody plants	less than 3.2	8 ft tall.	
12				Woody vines – All woo	dy vines great	ter than 3.	28 ft in
	100	= Total Cov	er				
<u>Woody Vine Stratum</u> (Plot size: <u>30 ft</u> )				Hydrophytic Vegetatio	on Present?	res 🟒 N	0
1.	0						
2.				-			
3.				-			
4				-			
· · ·	0	= Total Cov	er	-			
Remarks: (Include photo numbers here or on a co	aarate sheet \						
Remarks. (include photo numbers here of on a se	Jarale Sneet.)						

	Matrix		Redov	(Feat	ient the	indicator or	confirm the al	osence of indicators.)
inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	L OC <sup>2</sup>	Texture	Remarks
0 - 7	10YR 2/1	90	10YR 4/6	10	<u> </u>	 PI	Silt Loam	Rendrids
7 - 20	10YR 4/1	80	10YR 5/8	20			Clay	
, 20			1011(3)0				city	
				· —		<u> </u>		
						<u> </u>		
ype: C = C	oncentration, D =	Depleti	ion, RM = Reduce	d Mat	rix, MS =	Masked Sar	d Grains. <sup>2</sup> Lo	ocation: PL = Pore Lining, M = Matrix.
dric Soil I	Indicators:							Indicators for Problematic Hydric Soils <sup>3</sup> :
_ Histosol	(A1)		Polyvalue B	elow S	urtace (S	8) (LRR R, N	LRA 149B)	2 cm Muck (A10) (LRR K, L, MLRA 149B)
_ Histic Ep	oipedon (A2)		Thin Dark Si	urface	(S9) (LRF	( R, MLRA 14	·9B)	Coast Prairie Redox (A16) <b>(LRR K, L, R)</b>
	SUC (AS)			od Ma	triv (E2)	(LKK K, L)		5 cm Mucky Peat or Peat (S3) <b>(LRR K, L, R)</b>
Stratifie	d Lavers (A5)		Loanty Gley	atrix (	(17) (FZ) F3)			Dark Surface (S7) <b>(LRR K, L)</b>
Deplete	d Below Dark Surfa	ace (A1	<ol> <li> Depleted M</li> <li>1) ✓ Redox Dark</li> </ol>	Surfa	(F6)			Polyvalue Below Surface (S8) (LRR K, L)
Thick Da	ark Surface (A12)		Depleted Da	ark Su	rface (F7)	)		Thin Dark Surface (S9) (LRR K, L)
Sandy M	lucky Mineral (S1)		Redox Depr	essior	ns (F8)	, 		Iron-Manganese Masses (F12) (LRR K, L, R)
_ /			/		. ,			Piedmont Floodplain Soils (F19) (MLRA 149B)
Sandy G	ileved Matrix (S4)							
_ Sandy G Sandy R	ileyed Matrix (S4) edox (S5)							Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
_ Sandy G _ Sandy R Stripped	ileyed Matrix (S4) edox (S5) d Matrix (S6)							Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Red Parent Material (F21)
_ Sandy G _ Sandy R _ Stripped _ Dark Su	ileyed Matrix (S4) edox (S5) d Matrix (S6) rface (S7) <b>(LRR R, M</b>	1LRA 14	49B)					<ul> <li>Mesic Spodic (TA6) (MLRA 144A, 145, 149B)</li> <li>Red Parent Material (F21)</li> <li>Very Shallow Dark Surface (TF12)</li> <li>Othor (Evolution in Remarks)</li> </ul>
_ Sandy G _ Sandy R _ Strippec _ Dark Su	ileyed Matrix (S4) edox (S5) d Matrix (S6) rface (S7) <b>(LRR R, M</b>	1LRA 14	49B)					<ul> <li>Mesic Spodic (TA6) (MLRA 144A, 145, 149B)</li> <li>Red Parent Material (F21)</li> <li>Very Shallow Dark Surface (TF12)</li> <li>Other (Explain in Remarks)</li> </ul>
_ Sandy G _ Sandy R _ Stripped _ Dark Su	ileyed Matrix (S4) edox (S5) d Matrix (S6) rface (S7) <b>(LRR R, M</b> of hydrophytic veg	ILRA 14 etation	<b>49B)</b> and wetland hyd	trolog	y must b	e present, u	nless disturbe	Mesic Spodic (TA6) <b>(MLRA 144A, 145, 149B)</b> Red Parent Material (F21) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) d or problematic.
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_ Sandy G _ Sandy R _ Stripped _ Dark Su ndicators ( estrictive I	ileyed Matrix (S4) edox (S5) d Matrix (S6) rface (S7) <b>(LRR R, N</b> of hydrophytic veg <b>ayer (if observed):</b> Type:	ILRA 14 etation	<b>49B)</b> and wetland hyd None	drolog	y must b	e present, u Hydric Soil	nless disturbe Present?	Mesic Spodic (TA6) <b>(MLRA 144A, 145, 149B)</b> Red Parent Material (F21) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) d or problematic. Yes _∠_ No
_ Sandy G _ Sandy R _ Stripped _ Dark Su ndicators d estrictive I	ileyed Matrix (S4) edox (S5) d Matrix (S6) rface (S7) <b>(LRR R, N</b> <u>of hydrophytic veg</u> <b>ayer (if observed):</b> Type: Depth (inches):	ILRA 14 etation	<b>49B)</b> a and wetland hyd None	drolog	y must b	e present, u Hydric Soil	nless disturbe Present?	Mesic Spodic (TA6) <b>(MLRA 144A, 145, 149B)</b> Red Parent Material (F21) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) d or problematic. Yes _✓_ No
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_ Sandy G _ Sandy R _ Strippec _ Dark Su adicators : estrictive I	ileyed Matrix (S4) edox (S5) d Matrix (S6) rface (S7) <b>(LRR R, M</b> <u>of hydrophytic veg</u> <b>.ayer (if observed):</b> Type: Depth (inches):	ILRA 14 etation	<b>49B)</b> and wetland hyd None	drolog	y must b	e present, u Hydric Soil	nless disturbe Present?	Mesic Spodic (TA6) <b>(MLRA 144A, 145, 149B)</b> Red Parent Material (F21) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) d or problematic. Yes _✓_ No
_ Sandy G _ Sandy R _ Strippec _ Dark Su idicators i strictive I	ileyed Matrix (S4) edox (S5) d Matrix (S6) rface (S7) <b>(LRR R, M</b> <u>of hydrophytic veg</u> <b>.ayer (if observed):</b> Type: Depth (inches):	ILRA 14	<b>49B)</b> and wetland hyd None	lrolog	y must b	e present, u Hydric Soil	nless disturbe Present?	Mesic Spodic (TA6) <b>(MLRA 144A, 145, 149B)</b> Red Parent Material (F21) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) d or problematic. Yes _∠_ No
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_ Sandy G _ Sandy R _ Strippec _ Dark Su dicators / strictive I	ileyed Matrix (S4) iedox (S5) d Matrix (S6) rface (S7) <b>(LRR R, M</b> of hydrophytic veg <b>.ayer (if observed):</b> Type: Depth (inches):	ILRA 14	<b>49B)</b> and wetland hyd None	lrolog 	y must b	e present, u Hydric Soil	nless disturbe Present?	Mesic Spodic (TA6) <b>(MLRA 144A, 145, 149B)</b> Red Parent Material (F21) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) d or problematic. Yes No
_ Sandy G _ Sandy R _ Strippec _ Dark Su dicators d strictive I	ileyed Matrix (S4) edox (S5) d Matrix (S6) rface (S7) <b>(LRR R, M</b> of hydrophytic veg <b>ayer (if observed):</b> Type: Depth (inches):	ILRA 14	<b>49B)</b> a and wetland hyd None	-	y must b	e present, u Hydric Soil	nless disturbe Present?	Mesic Spodic (TA6) <b>(MLRA 144A, 145, 149B)</b> Red Parent Material (F21) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) d or problematic. Yes No
_ Sandy G _ Sandy R _ Strippec _ Dark Su ndicators - estrictive I	ileyed Matrix (S4) edox (S5) d Matrix (S6) rface (S7) <b>(LRR R, M</b> of hydrophytic veg <b>ayer (if observed):</b> Type: Depth (inches):	ILRA 14	<b>49B)</b> a and wetland hyd None	- -	y must b	e present, u Hydric Soil	nless disturbe Present?	Mesic Spodic (TA6) <b>(MLRA 144A, 145, 149B)</b> Red Parent Material (F21) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) d or problematic. YesNo
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Soil Photos





Photo of Sample Plot South



Project/Site: Riverside	Solar	Cit	ty/County: Chau	umont, Jeffe	rson		Sampling Date: 2020-June-04		
Applicant/Owner: G	eronimo				State: NY		Sampling Point: V	V-BTF-07_PUB-1	
Investigator(s): Bren	ner Fahrenz, B	ridgette Rooney, I	Ben Popham	Sect	ion, Township, Ra	ange:			
Landform (hillslope, te	rrace, etc.):	Pond		Local relief	(concave, convex	, none):	Concave	<b>Slope (%):</b>	) to 1
Subregion (LRR or MLR	A): LRR R			Lat:	44.069901234	Long:	-76.0624983584	Datum: WGS	584
Soil Map Unit Name:	CpCovingto	n silty clay					NWI classifica	ation:	
Are climatic/hydrologic conditions on the site typical for this time of year? Yes 🧹 No (If no, explain in Remarks.)									
Are Vegetation,	Soil, d	or Hydrology	significantly dis	sturbed?	Are "Normal (	Circums	tances" present?	Yes No	✓
Are Vegetation,	Soil, o	or Hydrology	naturally probl	ematic?	(If needed, ex	plain an	y answers in Rema	arks.)	

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

Hydrophytic Vegetation Present?	Yes 🟒 No		
Hydric Soil Present?	Yes 🟒 No	Is the Sampled Area within a Wetland?	Yes 🯒 No
Wetland Hydrology Present?	Yes 🟒 No	lf yes, optional Wetland Site ID:	W-BTF-07
Remarks: (Explain alternative procedures he	re or in a separate report	)	
Covertype is PUB. Circumstances are not no	rmal due to agricultural a	ctivities. Pond appears to be man made.	

Primary Indicators (minimum of one is required; check all that apply)       Secondary Indicators (minimum of two required)	Primary Indicators (minimum of one is required: check all that apply)       Secondary Indicators (minimum of two required)	Primary Indicators (minimum of one is required; check all that apply)       Secondary Indicators (minimum of two required)	Wetland Hydrology Indicators:				
✓ Surface Water (A1) ✓ Water-Stained Leaves (B9) Surface Soil Cracks (B6) ✓ High Water Table (A2) Aquatic Fauna (B13) Drainage Patterns (B10) ✓ Saturation (A3) ✓ Marl Deposits (B15) More Marks (B1) ✓ Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2) Crayfish Burrows (C8) ✓ Saturation Visible on Aerial Imagery (C9) ✓ Drift Deposits (B3) Presence of Reduced Iron (C4) ✓ Sturated or Stressed Plants (D1) ✓ Algal Mat or Crust (B4)   Recent Iron Reduction in Tilled Soils (C6) ✓ Geomorphic Position (D2)   Iron Deposits (B5)   Thin Muck Surface (C7)   Shallow Aquitard (D3)   Inundation Visible on Aerial Imagery (B7)   Other (Explain in Remarks)   Microtopographic Relief (D4)   Sparsely Vegetated Concave Surface (B8)   Feld Observations:   Yes _ No Depth (inches):   0   Wetland Hydrology Present?   Yes _ No Depth (inches):   0   Depth (inches):   0   Environ Present?   Yes _ No Depth (inches):   0   Baturation Present?   Yes _ No Depth (inches):   0   Baturation Present?   Yes _ No Depth (inches):   0   Deptr (inches):   0   0   0   0   10   2   No Depth (inches):   0   2   No Depth (inches):   0   2   No Depth (inches):   0   2   No	✓ Surface Water (A1)       ✓ Water-Stained Leaves (B9)      Surface Soil Cracks (B6)         ✓ High Water Table (A2)      Aquatic Fauna (B13)      Drainage Patterns (B10)         ✓ Saturation (A3)      Marl Deposits (B15)      Moss Trim Lines (B16)	✓ Surface Water (A1)	Primary Indicators (minimum of	one is required; check a	<u>ll that apply)</u>		Secondary Indicators (minimum of two requi
			<ul> <li>✓ Surface Water (A1)</li> <li>✓ High Water Table (A2)</li> <li>✓ Saturation (A3)</li> <li>Water Marks (B1)</li> <li>Sediment Deposits (B2)</li> <li>Drift Deposits (B3)</li> <li>Algal Mat or Crust (B4)</li> <li>Iron Deposits (B5)</li> <li>✓ Inundation Visible on Aerial I</li> <li>Sparsely Vegetated Concave</li> </ul>	✓ Wate Aqua Marl Hydr Oxid Pres Thin magery (B7) Othe Surface (B8)	er-Stained Leaves (B9) atic Fauna (B13) I Deposits (B15) rogen Sulfide Odor (C1) lized Rhizospheres on Living ence of Reduced Iron (C4) ent Iron Reduction in Tilled S Muck Surface (C7) er (Explain in Remarks)	g Roots (C3) Soils (C6)	<ul> <li>Surface Soil Cracks (B6)</li> <li>Drainage Patterns (B10)</li> <li>Moss Trim Lines (B16)</li> <li>Dry-Season Water Table (C2)</li> <li>Crayfish Burrows (C8)</li> <li>Saturation Visible on Aerial Imagery (C9)</li> <li>Stunted or Stressed Plants (D1)</li> <li>Geomorphic Position (D2)</li> <li>Shallow Aquitard (D3)</li> <li>Microtopographic Relief (D4)</li> <li>EAC-Neutral Test (D5)</li> </ul>
Surface Water Present? Yes No Depth (inches): 5 Nater Table Present? Yes No Depth (inches): 0 Saturation Present? Yes No Depth (inches): 0 includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: temarks:	Surface Water Present? Yes _ No _ Depth (inches): 5 Nater Table Present? Yes _ No _ Depth (inches): 0 Saturation Present? Yes _ No _ Depth (inches): 0 includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:	Surface Water Present? Yes _ No _ Depth (inches): 5 Nater Table Present? Yes _ No _ Depth (inches): 0 Saturation Present? Yes _ No _ Depth (inches): 0 includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:					
Vater Table Present?       Yes _ No Depth (inches):       0       Wetland Hydrology Present?       Yes _ No _         Gaturation Present?       Yes _ No Depth (inches):       0       0         includes capillary fringe)       Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:       Remarks:	Water Table Present?       Yes _ ✓ No Depth (inches):       0       Wetland Hydrology Present?       Yes _ ✓ No _         Gaturation Present?       Yes _ ✓ No Depth (inches):       0       0       Wetland Hydrology Present?       Yes _ ✓ No _         includes capillary fringe)       Depth (inches):       0       0       0       0         Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:       Remarks:       0       0	Vater Table Present?       Yes _ No Depth (inches):       0       Wetland Hydrology Present?       Yes _ No _         Gaturation Present?       Yes _ No Depth (inches):       0       0         includes capillary fringe)       0       0         Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:       0         Remarks:       0       0	Surface Water Present?	Yes 🟒 No	Depth (inches):	5	
Saturation Present? Yes _ No Depth (inches):   includes capillary fringe)   Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: iemarks:	Saturation Present? Yes _ No Depth (inches): 0   includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:	Saturation Present? Yes No Depth (inches): 0 includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:	Vater Table Present?	Yes 🟒 No	Depth (inches):	0	Wetland Hydrology Present? Yes M
Includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:	aturation Present?	Yes 🟒 No	Depth (inches):	0	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	includes capillary fringe)				
			Remarks:				

## Sampling Point: W-BTF-07\_PUB-1

Tree Stratum (Plot size: <u>30 ft</u> )	Absolute	Dominant	Indicator	Dominance Test works	heet:		
1. Oversve bissler	10	Species:		Are OBL FACW or FAC	:	2	(A)
1. Quercus bicolor	10	res	FACW	Total Number of Domi	nant Species		(D)
				Across All Strata:		2	(B)
<u> </u>				Percent of Dominant S	pecies That	100	(A/R)
т. Б				Are OBL, FACW, or FAC	:		(A/D)
S				Prevalence Index work	sheet:		
7				<u>Total % Cover</u>	<u>of:</u>	<u>Multiply</u>	<u>By:</u>
/·	10	= Total Cov	or	OBL species	5	x 1 =	5
Sapling/Shrub Stratum (Plot size: 15 ft )	10	- 10tal COV		FACW species	90	x 2 =	180
	0			FAC species	0	x 3 =	0
1	0			FACU species	0	x 4 =	0
2	<u> </u>	· ·		UPL species	0	x 5 =	0
3		·		Column Totals	95	(A)	185 (B)
4.		<u> </u>		Prevalence Ir	ndex = B/A =	1.9	
с	<u> </u>	<u> </u>		Hydrophytic Vegetation	n Indicators:		
0				1- Rapid Test for H	Hydrophytic V	/egetation	
/		- Tatal Cau		_✔_ 2 - Dominance Te	st is >50%		
	0	= lotal Cov	er	3 - Prevalence Inc	lex is $\leq 3.0^1$		
Herb Stratum (Plot size: $5\pi$ )			EA CIAL	4 - Morphological	Adaptations	Provide	supporting
1. Phalaris arundinacea	80	Yes	FACW	data in Remarks or on	a separate sh	neet)	
2. Schoenopiectus tabernaemontani	5	NO	OBL	Problematic Hydr	ophytic Vege	tation <sup>1</sup> (Ex	plain)
3				<sup>1</sup> Indicators of hydric so	il and wetlan	d hydrolog	gy must be
4		·		present, unless disturb	ed or proble	matic	
5				Definitions of Vegetation	on Strata:		
6				Tree – Woody plants 3	in. (7.6 cm) oı	r more in o	diameter at
7		······································		breast height (DBH), re	gardless of h	eight.	
8				Sapling/shrub - Woody	plants less t	han 3 in. D	OBH and
9				greater than or equal t	o 3.28 ft (1 m	) tall.	
10				Herb – All herbaceous	(non-woody)	plants, reg	gardless of
11				size, and woody plants	less than 3.2	8 ft tall.	
12				Woody vines – All wood	dy vines great	ter than 3.	28 ft in
	85	= Total Cov	er	neight.			
Woody Vine Stratum (Plot size: <u>30 ft</u> )				Hydrophytic Vegetatio	n Present?	/es 🟒 N	lo
1.	0						
2.							
3.							
4.							
	0	= Total Cov	er				
Remarks: (Include photo numbers here or on a separate	e sheet.)	-					

Line Land       A       Cond, Line Land       A       Cond, Line Land       A       Clay         IOYR 4/1       85       TOYR 5/8       15       C       M       Clay       Image: Classical Condensition of Classical Classical Condensition of Classical Cla	(inches) Color (mois	t) % Color (moist)		Domarks
ge: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains.       *Location: PL = Pore Lining, M = Matrix.         ge: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains.       *Location: PL = Pore Lining, M = Matrix.         Histosol (A1)	0 - 20 10YR 4/1	85 10YR 5/8	<u>15 C M Clay</u>	
ministry       ministry         minis				
pe: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains.       *Location: PL = Pore Lining, M = Matrix.         Indicators:       Indicators for Problematic Hydric Sc         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, MLRA 1498)				
pe: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains.       *Location: PL = Pore Lining, M = Matrix.         pe: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains.       *Location: PL = Pore Lining, M = Matrix.         thistosol (A1)				
ge: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. <sup>2</sup> Location: PL = Pore Lining, M = Matrix.         indicators:       Indicators:       Indicators for Problematic Hydric SGI (LRR R, MLRA 149B)         Histo: Epipedon (A2)       Thin Dark Surface (S9) (LRR R, MLRA 149B)	·			
pe: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains.       2 Location: PL = Pore Lining, M = Matrix.         indicators:       Indicators:       Indicators:         Histic Epipedon (A2)				
Depletion, RM = Reduced Matrix, MS = Masked Sand Grains.       *Location: PL = Pore Lining, M = Matrix.         Indicators:       Indicators:         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, MLRA 149B)       2 cm Muck (A10) (LRR K, L MLRA 149B)         Black Histic (A2)       Thin Dark Surface (S9) (LR R, L)       5 cm Muck (A10) (LR K, L)         Stratified Layers (A5)       Depleted Matrix (F2)       Dark Surface (S9) (LR K, L)         Depleted Below Dark Surface (A11)       Redox Dark Surface (F6)       Thin Dark Surface (F7)         Thick Dark Surface (A12)       Depleted Dark Surface (F7)       Iron-Manganese Masses (F12) (L Piedmont Floodplain Soils (F19)         Sandy Mucky Mineral (S1)       Redox Depressions (F8)       Meei Parent Material (F21)         Stripped Matrix (S6)       Very Shallow Dark Surface (T72)       Other (Explain in Remarks)         Stripped Matrix (S6)       Very Shallow Dark Surface (T72)       Other (Explain in Remarks)         Bicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.       Trice Soil Present?       Yes _< No			<u> </u>	
ae: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains.       *Location: PL = Pore Lining, M = Matrix.         bitstosol (A1)       Polyvalue Below Surface (S8) (LRR R, MLRA 149B)       Indicators for Problematic Hydric SC         Histic Epipedon (A2)       Thin Dark Surface (S9) (LRR K, L)       Scast Prairie Redox (A16) (LRR K, L)         Black Histic (A3)       Loamy Mucky Mineral (F1) (LRR K, L)       S cm Mucky Peat or Peat (S3) (LF         Stratified Layers (A5)       Depleted Matrix (F3)       Polyvalue Below Surface (S9)         Depleted Below Dark Surface (A11)       Redox Dark Surface (F7)       Thin Dark Surface (S9) (LRR K, L)         Stratified Layers (A5)       Depleted Dark Surface (F7)       Thin Dark Surface (S9) (LR K, L)         Sandy Mucky Mineral (S1)       Redox Depressions (F8)       Polyvalue Below Surface (S9) (LR K, L)         Sandy Redox (S5)       Redox Depressions (F8)       Piedmont Floodplain Soils (F19)         Stripped Matrix (S6)       Very Shallow Dark Surface (T7)       Very Shallow Dark Surface (T7)         Stripped Matrix (S6)       Very Shallow Dark Surface (T7)       Very Shallow Dark Surface (T7)         Stripped Matrix (S6)       Very Shallow Dark Surface (T7)       Very Shallow Dark Surface (T7)         Dark Surface (S7) (LRR R, MLRA 149B)       Other (Explain in Remarks)       Very Shallow Dark Surface (T7)         Deplet duarix (S6)       Polytophy				
pe: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains.       *Location: PL = Pore Lining, M = Matrix.         tric Soil Indicators:       Indicators for Problematic Hydric Sc         Histo: Epipedon (A2)       Thin Dark Surface (S8) (LRR R, MLRA 1498)         Back Histic (A3)       Loamy Mucky Mineral (F1) (LRR K, L)         Hydrogen Sulfide (A4)       Loamy Gleyed Matrix (F2)         Stratified Layers (A5)       Depleted Matrix (F6)         Depleted Boark Surface (A11)       Redox Dark Surface (F6)         Thin Dark Surface (A12)       Depleted Dark Surface (F7)         Sandy Mucky Mineral (S1)       Redox Depressions (F8)         Sandy Mucky Mineral (S1)       Red Parent Material (F21)         Stripped Matrix (S6)       Weis Spodic (TA6) (MLR A 1448)         Sandy Redox (S5)       Sent Mucki Matria (F71)         Stripped Matrix (S6)       Weis Spodic (TA6) (MLR A 1448)         Dark Surface (S7) (LR R, MLRA 1498)       Other (Explain in Remarks)         Licators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.       Trictive Layer (f Observed):         Type:       None       Hydric Soil Present?       Yes No         Depth (inches):       nore       Yes No         Depth (inches):       None       No       No				
be: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. <sup>2</sup> Location: PL = Pore Lining, M = Matrix. Indicators: Histosol (A1) Polyvalue Below Surface (S8) (LR R, MLRA 149B) Bist Epipedon (A2) Thin Dark Surface (S9) (LR R, MLRA 149B) Bist (F3) Loamy Mucky Mineral (F1) (LR K, L) S cm Mucky Peat or Peat (S3) (L Stratified Layers (A5) Depleted Matrix (F2) Stratified Layers (A5) Depleted Dark Surface (F7) Thin Dark Surface (S1) (LR R, MLRA 149B) Sandy Mucky Mineral (S1) Redox Depressions (F8) Stratified Matrix (S6) Stratified Matrix (S6) Stratified Matrix (S6) Stratified Matrix (S6) Stratified Matrix (S6) Stratified Matrix (S6) Stratified Matrix (S6) Type: None Depth (inches): Depth (inches): marks: None Hydric Soil Present? YesNo YesNo YesNo YesNo Matrix Surface (S1) Clark R, MLRA 149B, Matrix Surface (S1) Clark R, MLRA 149B,				
be C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains.       Learoution: PL = Pore Lining, M = Matrix,         Indicators :       Indicators for Problematic Hydric Sc         Histisco (A1)				
Initiation of the second se	e: C = Concentration,	D = Depletion, RM = Reduced	Matrix, MS = Masked Sand Grains.	<sup>2</sup> Location: PL = Pore Lining, M = Matrix.
Institut Epipedon (A2)	Histosol (A1)	Polyvalue Be	ow Surface (S8) (I RR R MI RA 149B)	
Black Histic (A3)Loamy Mucky Mineral (F1) (LRR K, L)C to Mucky Peat or Peat (S3) (LF Hydrogen Sulfde (A4)Loamy Gleyed Matrix (F2)Dark Surface (S7) (LRR K, L)S cm Mucky Peat or Peat (S3) (LF Depleted Below Dark Surface (A11) Redox Dark Surface (F6)Thio Dark Surface (S7) (LRR K, L)S ndy Gleyed Matrix (S4)Depleted Dark Surface (F7)I no-Manganese Masses (F12) (L Sandy Mucky Mineral (S1)Redox Depressions (F8)Piedmont Floodplain Soils (F19) Sandy Gleyed Matrix (S6)Yery Shallow Dark Surface (S7) (LRR R, MLRA 149B)Other (Explain in Remarks) dicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. trictive Layer (if observed): Type: None Hydric Soil Present? Yes No Depth (inches): narks:	Histic Epipedon (A2)	Thin Dark Su	face (S9) <b>(LRR R, MLRA 149B)</b>	2 cm Muck (A10) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (LRP K L P)
Hydrogen Sulfide (A4)Loamy Gleyed Matrix (F2)Dark Surface (S7) (LRR K, L) Stratified Layers (A5)Depleted Matrix (F3)Polyvalue Below Surface (S7) (LRR K, L) Depleted Below Dark Surface (A11)Redox Dark Surface (F6)Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12)Depleted Dark Surface (F7)Inon-Manganese Masses (F12) (L Sandy Mucky Mineral (S1)Redox Dark Surface (F7)Inon-Manganese Masses (F12) (L Sandy Gleyed Matrix (S4)Ndex Depressions (F8)Ndex (S5)Ndex (S5)Ndex (S5)Ndex (S5)Ndex (S7) (LRR R, MLRA 149B)Ndex (S1)Ndex (S7) (LRR R, MLRA 149B)Ndex (S1)Ndex	Black Histic (A3)	Loamy Muck	/ Mineral (F1) <b>(LRR K, L)</b>	5 cm Mucky Peat or Peat (S3) (I RR K. I. R)
Stratified Layers (A5)	Hydrogen Sulfide (A4)	Loamy Gleye	d Matrix (F2)	Dark Surface (S7) (LRR K, L)
Depleted Below Dark Surface (A11) Depleted Dark Surface (F6)	Stratified Layers (A5)	Depleted Ma	rix (F3)	Polyvalue Below Surface (S8) (LRR K, L)
Inite Dark Surface (x12)	Depleted Below Dark S	Surface (A11) Redox Dark S	urtace (F6)	Thin Dark Surface (S9) <b>(LRR K, L)</b>
Sandy Gleyed Matrix (S4)	Thick Dark Surface (A1.	2) Depleted Dai	K Surface (F7)	Iron-Manganese Masses (F12) (LRR K, L, R)
Analy Gleyed Matrix (54)	Sandy Mucky Milleral (	(ST) Redox Depre	SSIONS (F8)	Piedmont Floodplain Soils (F19) (MLRA 149B)
Safidy Redux (S3)	Sandy Bodox (SE)	54)		Mesic Spodic (TA6) <b>(MLRA 144A, 145, 149B)</b>
	Sandy Redox (SS)			Red Parent Material (F21)
dicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.  trictive Layer (if observed):  Type:NoneHydric Soil Present? YesNo Depth (inches):  marks:	_ Dark Surface (S7) <b>(LRR</b>	R, MLRA 149B)		Very Shallow Dark Surface (TF12)
strictive Layer (if observed): Type: <u>None</u> Depth (inches): marks: Yes <u>/</u> No <u></u>	dicators of hydrophytic	vegetation and wetland hvd	ology must be present, unless disturb	Other (Explain in Kenarks)
Type: None Hydric Soil Present? Yes / No Depth (inches):	strictive Layer (if observ	/ed):		
Depth (inches):	Type:	None	Hydric Soil Present?	Yes 🖌 No
narks:	Depth (inches)	):	,	
	narks:			

Soil Photos



Photo of Sample Plot North Photo of Sample Plot South



Project/Site: Riversio	le Solar	City	//County: Chaumont,	Jefferson			Sampling Date:	2020-June-04
Applicant/Owner:	Geronimo			St	ate: NY		Sampling Point: \	W-BTF-07_UPL-1
Investigator(s): Bre	enner Fahrenz,	Bridgette Rooney, Be	en Popham	Section, T	ownship, Ra	inge:		
Landform (hillslope, t	errace, etc.):	Low Hill	Local r	elief (conc	ave, convex	, none):	Convex	Slope (%): 1 to 3
Subregion (LRR or MI	RA): LRR	R		Lat: 44.07	00003294	Long:	-76.0630366841	Datum: WGS84
Soil Map Unit Name:	GbBGaloo-	Rock outcrop comp	lex, 0 to 8 percent slo	pes			NWI classific	ation:
Are climatic/hydrolog	ic conditions o	n the site typical for	this time of year?	Yes	No	(If n	o, explain in Remai	rks.)
Are Vegetation,	Soil,	or Hydrology	significantly disturbed	d? Ar	e "Normal (	Circums	tances" present?	Yes 🟒 No
Are Vegetation,	Soil,	or Hydrology	naturally problematic	? (If	needed, ex	plain ar	ny answers in Rema	arks.)

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

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

Wetland Hydrology Indicators:				
Primary Indicators (minimum of on	e is required; check all	that apply)	Secondary Indicators (minimum o	of two required)
Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2)	Water Aquai Marl I Hydro Oxidi:	r-Stained Leaves (B9) tic Fauna (B13) Deposits (B15) ogen Sulfide Odor (C1) zed Rhizospheres on Living Roots (C:	<ul> <li>Surface Soil Cracks (B6)</li> <li>Drainage Patterns (B10)</li> <li>Moss Trim Lines (B16)</li> <li>Dry-Season Water Table (C2)</li> <li>Crayfish Burrows (C8)</li> <li>Saturation Visible on Aerial Im</li> </ul>	agery (C9)
Drift Deposits (B3)     Algal Mat or Crust (B4)     Iron Deposits (B5)     Inundation Visible on Aerial Ima     Sparsely Vegetated Concave Sur	Prese Recer Thin I gery (B7) Other rface (B8)	nce of Reduced Iron (C4) nt Iron Reduction in Tilled Soils (C6) Muck Surface (C7) r (Explain in Remarks)	Stunted or Stressed Plants (D1 Geomorphic Position (D2) Shallow Aquitard (D3) Microtopographic Relief (D4) FAC-Neutral Test (D5)	)
Field Observations:				
Surface Water Present?	Yes No 🟒	Depth (inches):		
Water Table Present?	Yes No 🟒	Depth (inches):	Wetland Hydrology Present?	Yes No 🟒
Saturation Present?	Yes No 🟒	Depth (inches):		
(includes capillary fringe)				
Describe Recorded Data (stream ga	auge, monitoring well,	aerial photos, previous inspections),	if available:	

## Sampling Point: W-BTF-07\_UPL-1

Tree Stratum (Plot size:30 ft)	Absolute	Dominant	Indicator	Dominance Test works	heet:		
1 Quarque rubra	30 COVER	Species:		Are OBL. FACW. or FAC	:	2	(A)
1. Quercus rubra	30	Yes .	FACU	Total Number of Domi	nant Species		
2. Alter satcharum	25	No.	FACU	Across All Strata:		5	(B)
5. Quercus alba	20	<u> </u>	FACU	Percent of Dominant S	pecies That	40	(A (D)
4. Carya Ovala	10	<u> </u>	FACU	Are OBL, FACW, or FAC	:	40	(A/B)
5. Crataegus monogyna	10	NO	FACU	Prevalence Index work	sheet:		
6. <u>Ostrya virginiaria</u>	10	NO	FACU	Total % Cover	of:	<u>Multiply</u>	<u>' By:</u>
7	4.05			OBL species	0	x 1 =	0
	105	= lotal Cov	er	FACW species	0	x 2 =	0
Sapling/Shrub Stratum (Plot size: <u>15 ft</u> )				FAC species	35	x 3 =	105
1. <u>Rhamnus cathartica</u>	25	Yes	FAC	FACU species	115	x 4 =	460
2. Lonicera japonica	5	No	FACU	UPL species	0	x 5 =	0
3				Column Totals	150	(A)	565 (B)
4		······································		Prevalence Ir	ndex = B/A =	3.8	. ,
5				Hydrophytic Vegetation			·
6				1 Papid Test for J	Judrophytic V	/ogotation	2
7					ryuropriyur v	regetation	1
	30	= Total Cov	er	2 - Dominance re	$\frac{3113}{100} = \frac{300}{100}$		
<u>Herb Stratum</u> (Plot size: <u>5 ft</u> )				3 - Prevalence inc	Adaptations <sup>1</sup>	1 (Drovida	supporting
1. <i>Rhamnus cathartica</i>	10	Yes	FAC	data in Remarks or on	a senarate sh	· (FIOVIUE	supporting
2. <i>Carya ovata</i>	5	Yes	FACU	Problematic Hydr	onhytic Vege	tation <sup>1</sup> (F	volain)
3.				Indicators of hydric sc	il and wetlan	d hydrolc	ogy must he
4.				present, unless disturb	ed or probler	matic	by must be
5.				Definitions of Vegetation	on Strata:		
6.		· ·		Tree – Woody plants 3	in. (7.6 cm) or	r more in	diameter at
7.	·	· ·		breast height (DBH), re	gardless of h	eight.	
8.				Sapling/shrub - Woody	/ plants less tl	han 3 in.	DBH and
9.	·			greater than or equal t	o 3.28 ft (1 m	) tall.	
10				Herb – All herbaceous	(non-woody)	plants, re	gardless of
11	·	·		size, and woody plants	less than 3.2	8 ft tall.	-
12	·			Woody vines - All wood	dy vines great	ter than 3	8.28 ft in
12	15	- Total Cov	or	height.			
Woody Vine Stratum (Plot size: 20 ft )	15	- 10tai Cov		Hydrophytic Vegetatio	n Present?	Yes I	No 🖌
	0						
1							
2.	·	·					
3	·						
4	·	<u> </u>					
	0	= Total Cov	er				
Remarks: (Include photo numbers here or on a separat	te sheet.)						

## Sampling Point: W-BTF-07\_UPL-1

(inches)	Matrix		Redox	Features		for commune a	sence of indicators.	
	Color (moist)	%	Color (moist)	% Тур	e <sup>1</sup> Loc <sup>2</sup>	Textu	ire	Remarks
0 - 6	10YR 3/2	100				Silt Lo	am	
6 - 11	10YR 4/2	100				Fine Silt	Loam	
ype: C = C	Concentration, D =	Depletio	n, RM = Reduced	Matrix, M	S = Masked	Sand Grains. <sup>2</sup> Lo	ocation: PL = Pore Linii	ng, M = Matrix.
dric Soil	Indicators:				(20) (1		Indicators for Proble	matic Hydric Soils <sup>3</sup> :
Histosol	(AT)		Polyvalue Bel	ow Surtac	e (58) (LRR	K, MLKA 149B)	2 cm Muck (A10)	(LRR K, L, MLRA 149B)
Black Hi	stic (A3)			Mineral (		A 149D)	Coast Prairie Red	ox (A16) <b>(LRR K, L, R)</b>
Hvdroge	en Sulfide (A4)		Loamy Gleve	d Matrix (I	=2)	_)	5 cm Mucky Peat	or Peat (S3) <b>(LRR K, L, R)</b>
_ Stratifie	d Layers (A5)		Depleted Ma	trix (F3)	,		Dark Surface (S7)	
_ Deplete	d Below Dark Surfa	ace (A11)	) Redox Dark S	Surface (F6	)		Polyvalue Below	
_ Thick Da	ark Surface (A12)		Depleted Dar	k Surface	(F7)			Masses (F12) (IRR K   R)
_ Sandy N	lucky Mineral (S1)		Redox Depre	ssions (F8	)		Piedmont Floodr	lain Soils (F19) (MI RA 149B)
_ Sandy G	leyed Matrix (S4)						Mesic Spodic (TA	5) (MLRA 144A, 145, 149B)
_ Sandy R	edox (S5)						Red Parent Mate	rial (F21)
_ Stripped	d Matrix (S6)						Very Shallow Dar	k Surface (TF12)
_ Dark Su	rface (S7) <b>(LRR R, N</b>	/LRA 149	9B)				Other (Explain in	Remarks)
ndicators	of hydrophytic veg	etation a	and wetland hydr	ology mus	st be preser	nt, unless disturbe	d or problematic.	
estrictive l	Layer (if observed):							
	Туре:		None		Hydric	Soil Present?	Yes _	No 🟒
	Depth (inches):			-				
marks:								
marks:	<u> </u>							
marks:								
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#### Soil Photos



Photo of Sample Plot North Photo of Sample Plot South



Project/Site: Riverside	Solar	City/County: Cl	naumont, Jeffe	rson		Sampling Date:	2020-June-04
Applicant/Owner: Ge	eronimo			State: NY		Sampling Point: V	N-BTF-08_PEM-1
Investigator(s): Brenn	ner Fahrenz, B	ridgette Rooney, Ben Popham	Sect	ion, Township, Ra	nge:		
Landform (hillslope, ter	race, etc.):	Depression	Local relief	(concave, convex,	, none):	Concave	Slope (%): 1 to 3
Subregion (LRR or MLR	A): LRR R		Lat:	44.0687300311	Long:	-76.0624722573	Datum: WGS84
Soil Map Unit Name:	KgAKingsbu	ry silty clay, 0 to 2 percent slop	es			NWI classific	ation:
Are climatic/hydrologic	conditions on	the site typical for this time of	year?	Yes 🟒 No 🔄	(If no	o, explain in Remar	rks.)
Are Vegetation,	Soil 🟒	or Hydrology 🟒 significantly	disturbed?	Are "Normal (	Circums	tances" present?	Yes No 🟒
Are Vegetation,	Soil,	or Hydrology naturally pro	oblematic?	(If needed, ex	plain ar	y answers in Rema	arks.)

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

Hydrophytic Vegetation Present?	Yes 🟒 No		
Hydric Soil Present?	Yes 🟒 No	Is the Sampled Area within a Wetland?	Yes 🯒 No
Wetland Hydrology Present?	Yes 🟒 No	If yes, optional Wetland Site ID:	W-BTF-08
Remarks: (Explain alternative procedures he	ere or in a separate report	)	
Covertype is PEM. Circumstances are not no	ormal due to agricultural a	ctivities. ATV/ORV impacts observed.	

Wetland Hydrology Indicators:		
Primary Indicators (minimum of one	e is required; check all that apply)	Secondary Indicators (minimum of two required)
<ul> <li> Surface Water (A1)</li> <li> High Water Table (A2)</li> <li>✓ Saturation (A3)</li> <li> Water Marks (B1)</li> <li> Sediment Deposits (B2)</li> </ul>	<ul> <li> Water-Stained Leaves (B9)</li> <li> Aquatic Fauna (B13)</li> <li> Marl Deposits (B15)</li> <li> Hydrogen Sulfide Odor (C1)</li> <li> Oxidized Rhizospheres on Living Roots (C3)</li> </ul>	<ul> <li>Surface Soil Cracks (B6)</li> <li>Drainage Patterns (B10)</li> <li>Moss Trim Lines (B16)</li> <li>Dry-Season Water Table (C2)</li> <li>Crayfish Burrows (C8)</li> <li>Saturation Visible on Aerial Imagery (C9)</li> </ul>
<ul> <li>Drift Deposits (B3)</li> <li>Algal Mat or Crust (B4)</li> <li>Iron Deposits (B5)</li> <li>Inundation Visible on Aerial Images</li> <li>Sparsely Vegetated Concave Sur</li> </ul>	<ul> <li>Presence of Reduced Iron (C4)</li> <li>Recent Iron Reduction in Tilled Soils (C6)</li> <li>Thin Muck Surface (C7)</li> <li>Other (Explain in Remarks)</li> <li>face (B8)</li> </ul>	<ul> <li>Stunted or Stressed Plants (D1)</li> <li>Geomorphic Position (D2)</li> <li>Shallow Aquitard (D3)</li> <li>Microtopographic Relief (D4)</li> <li>FAC-Neutral Test (D5)</li> </ul>
Field Observations:		
Surface Water Present?	Yes No Depth (inches):	
Water Table Present?	Yes No _	Wetland Hydrology Present? Yes No
Saturation Present?	Yes 🖌 No Depth (inches): 8	
(includes capillary fringe)		
Describe Recorded Data (stream ga	uge, monitoring well, aerial photos, previous inspections), if a	available:

Sampling Point: W-BTF-08\_PEM-1

<u>Tree Stratum</u> (Plot size: <u>30 ft</u> )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test work	sheet: Species That	3	(A)
1 2	0			Total Number of Dom	inant Species	3	(B)
3				Percent of Dominant	Species That C:	100	(A/B)
5				Prevalence Index wor	ksheet:		
6				- Total % Cove	r of:	Multiply I	B <u>v:</u>
7				- OBL species	65	x 1 =	65
	0	= Total Cov	er	FACW species	20	x 2 =	40
<u>Sapling/Shrub Stratum</u> (Plot size: <u>15 ft</u> )				FAC species	0	x 3 =	0
1	0			- FACU species	0	x 4 =	0
2				- UPL species	0	x 5 =	0
3				- Column Totals	85	(A)	105 (B)
4				- Prevalence	Index = B/A =	1.2	(_)
5							
6				- 1 Danid Tost for	Undrophytic )	logatation	
7				- 2 Dominanco T	$\frac{1}{2}$	egetation	
	0	= Total Cov	er	2 - Dominance in	dov is - 2.01		
<u>Herb Stratum</u> (Plot size: <u>5 ft</u> )				5 - Prevalence in	$1000 \text{ IS} \leq 5.0^{\circ}$	(Drovido	unnorting
1. <i>Carex diandra</i>	40	Yes	OBL	4 - Morphologica	a separate sh		supporting
2. Carex vulpinoidea	20	Yes	OBL	Problematic Hyc	Ironhytic Vege	tation <sup>1</sup> (Ex	nlain)
3. Phalaris arundinacea	20	Yes	FACW	<sup>1</sup> Indicators of hydric s	oil and wetlan	d hydrolog	y must he
4. Juncus effusus	5	No	OBL	present, unless distur	bed or proble	matic	59 111451 60
5.				Definitions of Vegetat	ion Strata:		
6.				Tree – Woody plants 3	3 in. (7.6 cm) oi	more in c	liameter at
7.				breast height (DBH), r	egardless of h	eight.	
8.				Sapling/shrub - Wood	ly plants less t	han 3 in. D	BH and
9.				greater than or equal	to 3.28 ft (1 m	) tall.	
10.				- Herb – All herbaceous	(non-woody)	plants, reg	ardless of
11.				size, and woody plant	s less than 3.2	8 ft tall.	
12				Woody vines – All woo	ody vines great	er than 3.	28 ft in
· · · · · · · · · · · · · · · · · · ·		= Total Cov	er	height.			
Woody Vine Stratum (Plot size: 30 ft )		-	CI	Hydrophytic Vegetati	on Present?	/es 🟒 N	0
1	0						
2				-			
2		<u> </u>		-			
				-			
4		Tatal C		-			
	U	= Iotal Cov	er				

nches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0 - 8	10YR 3/2	90	10YR 5/8	10	<u> </u>	 PL	Clay Loar	n
8 - 20	10YR 3/1	85	10YR 5/8	15			Clav	······
				·			<b>)</b>	
				·				·
				·				
				·				
pe: C = C	Concentration, D = I	Depleti	on, RM = Reduce	d Mat	rix, MS =	Masked Sa	nd Grains. <sup>2</sup> L	ocation: PL = Pore Lining, M = Matrix.
Iric Soil	Indicators:							Indicators for Problematic Hydric Soils <sup>3</sup> :
Histoso	l (A1)		Polyvalue Be	elow S	Surface (S	58) (LRR R, N	/LRA 149B)	2 cm Muck (A10) <b>(LRR K, L, MLRA 149B)</b>
Black Hi	pipedon (AZ) istic (A3)			kv Mir	(59) <b>(LRF</b> neral (F1)	(R, MLKA 14 (IRR K I)	49B)	Coast Prairie Redox (A16) (LRR K, L, R)
Hvdroge	en Sulfide (A4)		Loamy Glev	ed Ma	trix (F2)			5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
Stratifie	ed Lavers (A5)		Depleted Ma	atrix (I	F3)			Dark Surface (S7) (LRR K, L)
-				•	'			Polyvalue Below Surface (S8) (LRR K, L)
Deplete	ed Below Dark Surfa	ace (A1	1) Redox Dark	Surfa	ce (F6)			This Dauls Countrast (CO) (LDD (CL)
Deplete Thick Da	ed Below Dark Surfa ark Surface (A12)	ace (A1	1) Redox Dark Depleted Da	Surfa ark Su	ce (F6) rface (F7)	)		Thin Dark Surface (S9) (LRR K, L)
Deplete Thick Da Sandy N	ed Below Dark Surfa ark Surface (A12) Mucky Mineral (S1)	ace (A1	1) Redox Dark Depleted Da Redox Depr	Surfa ark Su essior	ce (F6) rface (F7) ns (F8)	)		Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L, R)
_ Deplete _ Thick Da _ Sandy N _ Sandy C	ed Below Dark Surfa ark Surface (A12) Mucky Mineral (S1) Gleyed Matrix (S4)	ace (A1	1) Redox Dark Depleted Da Redox Depr	Surfa ark Su essior	ce (F6) rface (F7) ns (F8)	)		<ul> <li>Thin Dark Surface (S9) (LRR K, L)</li> <li>Iron-Manganese Masses (F12) (LRR K, L, R)</li> <li>Piedmont Floodplain Soils (F19) (MLRA 149B)</li> <li>Magic Encodic (Tab) (MLRA 145, 140B)</li> </ul>
_ Deplete _ Thick Da _ Sandy N _ Sandy C _ Sandy F	ed Below Dark Surfa ark Surface (A12) Mucky Mineral (S1) Gleyed Matrix (S4) Redox (S5)	ace (A1	1) Redox Dark Depleted Da Redox Depr	Surfa ark Su essior	ce (F6) rface (F7) is (F8)	)		<ul> <li>Thin Dark Surface (S9) (LRR K, L)</li> <li>Iron-Manganese Masses (F12) (LRR K, L, R)</li> <li>Piedmont Floodplain Soils (F19) (MLRA 149B)</li> <li>Mesic Spodic (TA6) (MLRA 144A, 145, 149B)</li> <li>Pada Papart Material (F21)</li> </ul>
<sub>-</sub> Deplete <sub>-</sub> Thick Da <sub>-</sub> Sandy N <u>-</u> Sandy R <u>-</u> Sandy R - Stripped	ed Below Dark Surfa ark Surface (A12) Mucky Mineral (S1) Gleyed Matrix (S4) Redox (S5) d Matrix (S6)	ace (A1	1 Redox Dark Depleted Da Redox Depr	Surfa ark Su essior	ce (F6) rface (F7 <u>)</u> ns (F8)	)		<ul> <li>Thin Dark Surface (S9) (LRR K, L)</li> <li>Iron-Manganese Masses (F12) (LRR K, L, R)</li> <li>Piedmont Floodplain Soils (F19) (MLRA 149B</li> <li>Mesic Spodic (TA6) (MLRA 144A, 145, 149B)</li> <li>Red Parent Material (F21)</li> <li>Yong Shallow Dark Surface (TE12)</li> </ul>
_ Deplete _ Thick Da _ Sandy N _ Sandy C _ Sandy F _ Stripped _ Dark Su	ed Below Dark Surfa ark Surface (A12) Mucky Mineral (S1) Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) <b>(LRR R, M</b>	ilra 14	1) Redox Dark Depleted Da Redox Depr 19B)	Surfa ark Su essior	ce (F6) rface (F7) is (F8)	)		<ul> <li>Thin Dark Surface (S9) (LRR K, L)</li> <li>Iron-Manganese Masses (F12) (LRR K, L, R)</li> <li>Piedmont Floodplain Soils (F19) (MLRA 149B</li> <li>Mesic Spodic (TA6) (MLRA 144A, 145, 149B)</li> <li>Red Parent Material (F21)</li> <li>Very Shallow Dark Surface (TF12)</li> <li>Other (Explain in Remarks)</li> </ul>
Deplete Thick Da Sandy N Sandy C Sandy F Sandy F Dark Su	ed Below Dark Surfa ark Surface (A12) Mucky Mineral (S1) Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) <b>(LRR R, M</b>	ace (A1	1) Redox Dark Depleted Da Redox Depr 19B)	Surfa ark Su essior	ce (F6) rface (F7) ns (F8)	)	inloss disturbe	<ul> <li>Thin Dark Surface (S9) (LRR K, L)</li> <li>Iron-Manganese Masses (F12) (LRR K, L, R)</li> <li>Piedmont Floodplain Soils (F19) (MLRA 149B</li> <li>Mesic Spodic (TA6) (MLRA 144A, 145, 149B)</li> <li>Red Parent Material (F21)</li> <li>Very Shallow Dark Surface (TF12)</li> <li>Other (Explain in Remarks)</li> </ul>
Deplete Thick Da Sandy N Sandy C Sandy F Stripped Dark Su dicators	ed Below Dark Surfa ark Surface (A12) Mucky Mineral (S1) Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) (LRR R, M of hydrophytic veg Laver (if observed):	ace (A1 ILRA 14 etation	1) Redox Dark Depleted Da Redox Depr 49B) and wetland hyc	Surfa ark Su essior	ce (F6) rface (F7) is (F8) y must b	) e present, u	inless disturbe	<ul> <li>Thin Dark Surface (S9) (LRR K, L)</li> <li>Iron-Manganese Masses (F12) (LRR K, L, R)</li> <li>Piedmont Floodplain Soils (F19) (MLRA 149B</li> <li>Mesic Spodic (TA6) (MLRA 144A, 145, 149B)</li> <li>Red Parent Material (F21)</li> <li>Very Shallow Dark Surface (TF12)</li> <li>Other (Explain in Remarks)</li> <li>d or problematic.</li> </ul>
_ Deplete _ Thick Da _ Sandy M _ Sandy G _ Sandy F _ Stripped _ Dark Su dicators strictive l	ed Below Dark Surfa ark Surface (A12) Mucky Mineral (S1) Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) (LRR R, M of hydrophytic veg Layer (if observed): Type:	ace (A1 <b>ILRA 1</b> 4 <u>etation</u>	1) Redox Dark _ Depleted Da _ Redox Depr 49B) and wetland hyc	Surfa ark Su essior	ce (F6) rface (F7) is (F8) y must b	) e present, u	inless disturbe	<ul> <li>Thin Dark Surface (S9) (LRR K, L)</li> <li>Iron-Manganese Masses (F12) (LRR K, L, R)</li> <li>Piedmont Floodplain Soils (F19) (MLRA 149B)</li> <li>Mesic Spodic (TA6) (MLRA 144A, 145, 149B)</li> <li>Red Parent Material (F21)</li> <li>Very Shallow Dark Surface (TF12)</li> <li>Other (Explain in Remarks)</li> <li>d or problematic.</li> </ul>
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_ Deplete _ Thick Da _ Sandy N _ Sandy C _ Sandy F _ Stripped _ Dark Su dicators strictive I marks:	ed Below Dark Surfa ark Surface (A12) Mucky Mineral (S1) Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) <b>(LRR R, M</b> of hydrophytic veg Layer (if observed): Type: Depth (inches):	ILRA 14 etation	1) _ Redox Dark Depleted Da Redox Depr 49B) and wetland hyc None	Surfa ark Su essior	ce (F6) rface (F7) is (F8) y must b	) Hydric Soi	Inless disturbe	Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) d or problematic. Yes No
_ Deplete _ Thick Da _ Sandy N _ Sandy C _ Sandy F _ Stripped _ Dark Su dicators strictive I marks:	ed Below Dark Surfa ark Surface (A12) Mucky Mineral (S1) Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) <b>(LRR R, M</b> of hydrophytic veg Layer (if observed): Type: Depth (inches):	ILRA 14 etation	1) _ ✓ Redox Dark Depleted Da Redox Depr 49B) and wetland hyc None	Surfa ark Su essior	ce (F6) rface (F7) is (F8) <u>y must b</u>	e present, u Hydric Soi	Inless disturbe	Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) d or problematic. YesNo
_ Deplete _ Thick Da _ Sandy N _ Sandy C _ Sandy F _ Stripped _ Dark Su dicators strictive I marks:	ed Below Dark Surfa ark Surface (A12) Mucky Mineral (S1) Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) <b>(LRR R, M</b> <u>of hydrophytic veg</u> <b>Layer (if observed):</b> Type: Depth (inches):	ILRA 14	1) Redox Dark Depleted Da Redox Depr 49B) and wetland hyc None	Surfa ark Su essior	ce (F6) rface (F7) is (F8) <u>y must b</u>	) Hydric Soi	Inless disturbe	Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) d or problematic. YesNo
_ Deplete _ Thick Da _ Sandy N _ Sandy C _ Sandy F _ Stripped _ Dark Su dicators strictive I marks:	ed Below Dark Surfa ark Surface (A12) Mucky Mineral (S1) Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) <b>(LRR R, M</b> of hydrophytic veg Layer (if observed): Type: Depth (inches):	ILRA 14	1) Redox Dark Depleted Da Redox Depr 49B) and wetland hyc 	Surfa ark Su essior	ce (F6) rface (F7) is (F8) <u>y must b</u>	) Hydric Soi	Inless disturbe	Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) d or problematic. YesNo
Deplete Thick Da Sandy N Sandy C Sandy F Stripped Dark Su dicators :trictive I	ed Below Dark Surfa ark Surface (A12) Mucky Mineral (S1) Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) <b>(LRR R, M</b> <u>of hydrophytic veg</u> <b>Layer (if observed):</b> Type: Depth (inches):	ILRA 14	1) Redox Dark Depleted Da Redox Depr 49B) and wetland hyc 	Surfa ark Su essior	ce (F6) rface (F7) is (F8) <u>y must b</u>	) Hydric Soi	Inless disturbe	Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) d or problematic. YesNo


Photo of Sample Plot North Photo of Sample Plot South



# WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Riverside Solar	City/County: Chaumont, Jefferson	Sampling Date: 2020-June-04
Applicant/Owner: Geronimo	State: NY	Sampling Point: W-BTF-08_UPL-1
Investigator(s): Brenner Fahrenz, Bridgette Roon	ey, Ben Popham Section, Township, Range:	
Landform (hillslope, terrace, etc.): Flat	Local relief (concave, convex, none):	None Slope (%): 0 to 1
Subregion (LRR or MLRA): LRR R	Lat: 44.0687556552 Long:	-76.0624703255 Datum: WGS84
Soil Map Unit Name: KgAKingsbury silty clay, 0	to 2 percent slopes	NWI classification:
Are climatic/hydrologic conditions on the site typica	al for this time of year? Yes 🖌 No (If no	ა, explain in Remarks.)
Are Vegetation, Soil, or Hydrology _	significantly disturbed? Are "Normal Circums	tances" present? Yes No 🟒
Are Vegetation, Soil, or Hydrology _	naturally problematic? (If needed, explain ar	iy answers in Remarks.)

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

Hydrophytic Vegetation Present?	Yes No 🟒		
Hydric Soil Present?	Yes 🟒 No	Is the Sampled Area within a Wetland?	Yes 🟒 No _
Wetland Hydrology Present?	Yes No 🟒	If yes, optional Wetland Site ID:	W-BTF-08
Remarks: (Explain alternative procedure	es here or in a separate rep	port)	
Covertype is UPL. Circumstances are no	ot normal due to agricultura	al activities. Circumstances are not normal due to r	nowing of vegetation.

Wetland Hydrology Indicators:					
Primary Indicators (minimum of on	e is requi	red; check all th	at apply)	Secondary Indicators (minimum of	two required)
<ul> <li>Surface Water (A1)</li> <li>High Water Table (A2)</li> <li>Saturation (A3)</li> <li>Water Marks (B1)</li> <li>Sediment Deposits (B2)</li> </ul>		Water-Si Aquatic Marl Dej Hydroge Oxidized	tained Leaves (B9) Fauna (B13) posits (B15) on Sulfide Odor (C1) I Rhizospheres on Living Roots (C3)	<ul> <li>Surface Soil Cracks (B6)</li> <li>Drainage Patterns (B10)</li> <li>Moss Trim Lines (B16)</li> <li>Dry-Season Water Table (C2)</li> <li>Crayfish Burrows (C8)</li> <li>Saturation Visible on Aerial Ima</li> </ul>	gery (C9)
Drift Deposits (B3)     Algal Mat or Crust (B4)     Iron Deposits (B5)     Inundation Visible on Aerial Ima     Sparsely Vegetated Concave Su	gery (B7) face (B8)	Presenc Recent I Thin Mu Other (E	e of Reduced fron (C4) ron Reduction in Tilled Soils (C6) ck Surface (C7) xplain in Remarks)	Stunted of Stressed Plants (D1) Geomorphic Position (D2) Shallow Aquitard (D3) Microtopographic Relief (D4) FAC-Neutral Test (D5)	
Field Observations:					
Surface Water Present?	Yes	_ No 🟒	Depth (inches):	_	
Water Table Present?	Yes	_ No _	Depth (inches):	Wetland Hydrology Present?	Yes No 🟒
Saturation Present?	Yes	_ No 🟒	Depth (inches):	_	
(includes capillary fringe)					
Remarks:	luge, mor	itoring well, aei	ial photos, previous inspections), if	available:	

Sampling Point: W-BTF-08\_UPL-1

1	0						(4)
2.				Are OBL, FACW, or F	AC:		(~)
2				Total Number of Do	minant Species	2	(B)
۵ ۵				Percent of Dominan	t Species That	0	(A/B)
5				Are OBL, FACW, or F	AC:		(700)
6				<ul> <li>Prevalence Index wo</li> </ul>	orksheet:		
7				- <u>Total % Cov</u>	<u>ver of:</u>	<u>Multiply</u>	<u>′ By:</u>
7		- Tatal Cau	- 4	- OBL species	0	x 1 =	0
Carling (Church Structure (Districts) 45 ft )	0		er	FACW species	0	x 2 =	0
Sapling/Shrub Stratum (Plot size:15 ft)	0			FAC species	0	x 3 =	0
1	0			- FACU species	85	x 4 =	340
2.				– UPL species	0	x 5 =	0
3				- Column Totals	85	(A)	340 (B)
4				- Prevalence	e Index = B/A =	4	i i
5				- Hydrophytic Vegetat	ion Indicators:		
6				1- Rapid Test fo	or Hydrophytic V	logotatio	n
7				- 2 - Dominance	Test is $> 50\%$	egetatio	
	0	= Total Cov	er	2 Bornhartee	Index is $< 3.01$		
<u>Herb Stratum</u> (Plot size: <u>5 ft</u> )				J - Morphologi	cal Adaptations <sup>1</sup>	(Provide	supporting
1. <i>Trifolium repens</i>	30	Yes	FACU	- data in Remarks or o	on a separate sh	(Frovide neet)	supporting
2. <i>Vicia americana</i>	25	Yes	FACU	– Problematic Hy	/drophytic Vege	tation <sup>1</sup> (E	xplain)
3. Phleum pratense	15	No	FACU	<sup>1</sup> Indicators of hydric	soil and wetlan	d hvdrolo	pgy must be
4. Taraxacum officinale	10	No	FACU	present, unless distu	urbed or problem	matic	0,
5. Galium mollugo	5	No	FACU	Definitions of Vegeta	ation Strata:		
6.				Tree – Woody plants	3 in. (7.6 cm) or	r more in	diameter at
7.				breast height (DBH),	regardless of h	eight.	
8.				Sapling/shrub - Woo	ody plants less t	han 3 in.	DBH and
9.				greater than or equa	al to 3.28 ft (1 m	) tall.	
10.				Herb – All herbaceo	us (non-woody)	plants, re	gardless of
11.				size, and woody plan	nts less than 3.2	8 ft tall.	
12				Woody vines – All we	oody vines great	ter than 3	3.28 ft in
		= Total Cov	or	height.			
Woody Vino Stratum (Plot size: 20 ft )	05	- 10tal COV	CI	Hydrophytic Vegeta	tion Present?	/es	No 🖌
1	0						
۱	0			-			
2.				-			
3.				-			
4				-			
	0	= Total Cov	er				

Unchesi         Color (moist)         Color (moist)         Color (moist)         Type (c)         Texture         Remarks           5 - 12         10YR 3/4         90         10YR 5/8         15         C         M         Clay Loam           5 - 12         10YR 4/2         85         10YR 5/8         15         C         M         Clay Loam	Profile Descr	iption: (Describe	to the o	depth needed to o	docun ( Foot	nent the	indicato	r or confirm the al	bsence of	indicators.)
United       Markes       Cool (Index)       M       Clock       Memarks         5-12       10YR 3/4       90       10YR 5/8       15       C       M       Clay Learn	(inchos)	Color (moist)	04	Color (moist)	04	Tupol	Loc2	Toyturo		Pomarka
0-3       10/K 3/4       90       10/K 3/6       10       C       PL       SaitLoan         5-12       10/R 4/2       85       10/K 5/6       15       C       M       Clay Loam					<u> </u>	Type.		Cilture		Remarks
3-12       10/R4/2       B       10/R4/2       IURX //R         Image: Strate	0-5	10YR 3/4	90	10YR 5/8	10			Sill Loan	1	
Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. <sup>2</sup> Location: PL = Pore Lining, M = Matrix.         Histool (A1)       Polyvalue Below Surface (S8) (LRR R, MLRA 1498)         Histool (A1)       Polyvalue Below Surface (S9) (LRR R, MLRA 1498)         Histool (A1)       Polyvalue Below Surface (S9) (LRR R, MLRA 1498)         Histool (A2)       Thin Dark Surface (S9) (LRR R, MLRA 1498)         Stratified Layers (A3)       Loamy Gleyed Matrix (F2)         Depleted Below Dark Surface (A11)       Redox Dark Surface (F7)         Thick Dark Surface (A12)       Depleted Dark Surface (F7)         Stratified Layers (A5)       Polyvalue Below Surface (S1) (LRR K, L)         Shorty Mucky Mineral (S1)       Redox Dark Surface (F7)         Shorty Mucky Mineral (S1)       Redox Dark Surface (F7)         Shorty Mucky Mineral (S1)       Redox Depressions (F8)         Pipped Matrix (S4)       Shorty Mucky Surface (F7)         Shorty Mucky Strate (F7)       Thin Dark Surface (F7)         Shorty Mucky Strate (F7)       The Chark Surface (F7)         Shorty Mucky Strate (F6)       Polyvalue Below Surface (F7)         Shorty Mucky Strate (F7)       The Chark Surface (F7)         Shorty Below Surface (S5)       Polyvalue Below Surface (F7)         Shorty Below Surface (S7)       Weak Spolici (F7)         Strate (S7) (LRR R,	5 - 12	10YR 4/2	85	10YR 5/8	15	C	M	Clay Loan	n	
Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. *Location: PL = Pore Lining, M = Matrix.         Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. *Location: PL = Pore Lining, M = Matrix.         Thydric Soil Indicators:       Indicators Soil Frainer (SS) (LRR K, ILM 1498)         Histic Epipedon (A2)					·					
Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains.       *Location: PL = Pore Lining, M = Matrix.         Indicators:       Indicators for Problematic Hydric Soils?         Histos (A1)       Polyvalue Below Surface (S9) (LRR R, MLRA 149B)       Coast Prairie Redox (A16) (LRR K, LR         Histos (A1)       Loamy Okeyed Matrix (F2)       Coast Prairie Redox (A16) (LRR K, LR         Hydric Soilfde Layers (A5)       Loamy Okeyed Matrix (F3)       Dopleted Below Surface (S1) (LRR K, L)         Stratified Layers (A5)       Depleted Dark Surface (F1)       Thin Dark Surface (S2) (LRR K, LR K, L)         Stratified Layers (A5)       Depleted Dark Surface (F2)       Thin Dark Surface (S2) (LRR K, L)         Stratified Layers (A5)       Depleted Dark Surface (F2)       Thin Dark Surface (S2) (LRR K, L)         Sondy Mucky (Mneral (S1)       Redox Dark Surface (F2)       Thin Dark Surface (S2) (LRR K, L)         Sondy Mucky (Mneral (S1)       Redox Dark Surface (F2)       Thin Dark Surface (S2) (LRR K, L)         Sondy Mucky (Mneral (S1)       Redox Dark Surface (F2)       Thin Dark Surface (S1) (LRR K, L)         Sondy Mucky (Mneral (S1)       Redox Dark Surface (F2)       Thin Dark Surface (S1) (LRR K, L)         Sondy Mucky (Mneral (S1)       Redox Dark Surface (F2)       Derk Surface (S2) (LRR K, L)         Sondy Mucky (Mneral (S1)       Redox Dark Surface (S2)       Red Parent Matrial (F2)<					·					
Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains.       *Location: PL = Pore Lining, M = Matrix.         Hydric Soll Indicators:       Indicators (SS) (LRR R, MLRA 1499)										
Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains.       *Location: PL = Pore Lining, M = Matrix.         Hydric Soil Indicators:       Indicators for Problematic Hydric Soils*         Histosol (A1)       Polyvalue Below Surface (S9) (LRR R, MLRA 1498)       2 cm Muck (A10) (LRR K, L, MLRA 1498)         Black Histic (A3)       Loarny Mucky Mineral (F1) (LRR K, L)       5 cm Mucky Peat or Peat (S3) (LRR K, L)         Stratified Layers (A5)										
Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains.       *Location: PL = Pore Lining, M = Matrix.         Hydrk Soli Indicators:       Indicators for Problematic Hydric Solis?         Histis Eppedon (A2)       Thin Dark Surface (S9) (LRR R, MLRA 1498)       2 cm Muck (A10) (LRR K, L, NLRA 1498)         Black Histis (A3)       Loamy Mucky Mineral (F1) (LRR K, L)       5 cm Mucky Peat or Peat (S3) (LRR K, L)         Stratified Layers (A5)       Z Depleted Matrix (F2)       5 cm Mucky Peat or Peat (S3) (LRR K, L)         Depleted Delw Dark Surface (A11)       Redox Dark Surface (F7)       Thin Dark Surface (S9) (LRR K, L)         Stratified Layers (A5)       Z Depleted Dark Surface (F7)       Thin Dark Surface (S9) (LRR K, L)         Sandy Gleyed Matrix (S4)       Peledmont Floodplain Solis (F19) (MLRA 144, 145, 149)         Sandy Gleyed Matrix (S4)       Peledmont Floodplain Solis (F19) (MLRA 144, 145, 149)         Sandy Gleyed Matrix (S4)       Peledmont Floodplain Solis (F19) (MLRA 144, 145, 149)         Sandy Gleyed Matrix (S4)       Peledmont Floodplain Solis (F19) (MLRA 144, 145, 149)         Stripped Matrix (S4)       Peledmont Floodplain Solis (F19) (MLRA 144, 145, 149)         Stripped Matrix (S6)       Pelefmont Floodplain Solis (F19) (MLRA 144, 145, 149)         Dark Surface (S7) (LRR R, MLRA 1498)       Very Shallow Dark Surface (TF12)         Dark Surface (S7) (LRR R, MLRA 1498)       Very Shallow Dark										
Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains.       *Location: PL = Pore Lining, M = Matrix.         Hydrć Soil Indicators:       Indicators for Problematic Hydric Soils?         Histic Epipedon (A2)       Thin Dark Surface (SB) (LRR R, MLRA 149B)       2 cm Muck (A10) (LRR K, L, RL RA, L49E)         Black Histic (A3)       Loamy Mucky Mineral (F1) (LRR K, L)       Coast Praitine Redox (A16) (LRR K, L, R         Hydrogen Sulfde (A4)       Loamy Gleyed Matrix (F2)       Dark Surface (S7) (LRR K, L, R         Stratified Layorface (A12)       Depleted Matrix (F3)       Polyvalue Below Surface (S7) (LRR K, L, R)         Sandy Redox (S5)       Depleted Dark Surface (F7)       Thin Dark Surface (S12) (LRR K, L, R)         Sandy Redox (S5)       Meet Spoalic (TA6) (MLRA 1449, 145, 149)       Red Parent Material (F21)         Sandy Redox (S5)       Wery Shallow Dark Surface (F7)       Thin Dark Surface (S12) (LRR K, L, R)         Sandy Redox (S5)       Wery Shallow Dark Surface (F7)       Meat Paetor Material (F21)         Stripped Matrix (S4)       Meet Spoalic (TA6) (MLRA 144, 145, 149)       Red Parent Material (F21)         Stripped Matrix (S4)       Wery Shallow Dark Surface (F7)       Cther (Explain in Remarks)         *Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.       Retrictute Layer (10 observed):         Type:       Hard clay										
"Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains.       "Location: PL = Pore Lining, M = Matrix.         Hydric Soil Indicators:       Indicators for Problematic Hydric Soils?         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, MLRA 1498)       2 cm Muck (A10) (LRR K, L, MLRA 1498)         Black Histic (A3)       Loamy Mucky Mineral (F1) (LRR K, L)       S cm Mucky Peter or Peat (S3) (LRR K, L, R)         Hydriogen Sulfide (A4)       Loamy Gleved Matrix (F2)       Dark Surface (S7) (LRR K, L)         Depleted Bow Dark Surface (A11)       Pelotox Dark Surface (F6)       Thick Dark Surface (S7) (LRR K, L)         Sandy Gleved Matrix (S4)       Depleted Dark Surface (F7)       Thick Dark Surface (S7) (LRR K, L)         Sandy Redox (S5)       Red Parent Material (F21)       Obtel (Mark A144A, 145, 1498)         Sandy Redox (S5)       Red Parent Material (F21)       Obtel (K12)         Dark Surface (S7) (LRR K, L)       Wery Shallow Dark Surface (TF12)       Other Kurface (TF12)         Dark Surface (S7) (LRR K, L)       Red Parent Material (F21)       Wery Shallow Dark Surface (TF12)         Dark Surface (S7) (LRR K, L)       Hydric Soil Present?       Yery Shallow Dark Surface (TF12)         Dark Surface (S7) (LRR K, L)       Hydric Soil Present?       Yery Matrix (S6)         Hydric Soil Present?       Yery Matrix (S7)       Hydric Soil Present?										
Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains.       *Location: PL = Pore Lining, M = Matrix.         Hydric Soll Indicators:       Indicators for Problematic Hydric Solls*.         Histosol (A1)										
Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. <sup>4</sup> Location: PL = Pore Lining, M = Matrix. Hydric Soil Indicators: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, MLRA 1498) Hist E pipedon (A2) Thin Dark Surface (S9) (LRR K, MLRA 1498) Black Hist (A3) Loamy Gleyed Matrix (F2) Stratified Layers (A5) Depleted Matrix (F2) Depleted Below Dark Surface (S1) (LRR K, L) Sardy Muck Mineral (S1) Redox Dark Surface (F6) Thin Dark Surface (A12) Depleted Dark Surface (F7) Sandy Muck Mineral (S1) Redox Depressions (F8) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Red Parent Material (F21) Mesic Spoid: (F10) (MLRA K, L, R4, 145, 1499) Red Parent Material (F21) Sarty Redox (S5) Red Parent Material (F21) Very Shallow Dark Surface (T72) Depleted Dark Surface (S7) (LRR K, L) Red Parent Material (F21) Sarty Redox (S5) Red Parent Material (F21) Very Shallow Dark Surface (T72) Red Parent Material (F21) Very Shallow Dark Surface (T72) Deptet (froberved): Type: Hard clay Hydric Soil Present? Yes No										
Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains.       2Location: PL = Pore Lining, M = Matrix.         Hydric Soil Indicators:       Polyvalue Below Surface (S8) (LRR R, MLRA 149B)       Indicators for Problematic Hydric Soils?         Histoc Epipedon (A2)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       Coast Parine Redxo (A16) (LRR K, L, MLRA 149B)         Black Histic (A3)       Loamy Mucky Mineral (F1) (LRR K, L)       S cm Mucky Peat or Peat (S3) (LRR K, L, R)         Stratified Layers (A5)       Z Depleted Matrix (F3)       Polyvalue Below Surface (S9) (LRR K, L)         Depleted Bolow Surface (A11)       Redox Depressions (F8)       Polyvalue Below Surface (S9) (LRR K, L, R)         Sandy Mucky Mineral (S1)       Redox Depressions (F8)       Piedmont Floodplain Soils (F9) (MLRA 144, 145, 149I)         Sandy Redox (S5)       Redox Depressions (F8)       Piedmont Floodplain Soils (F9) (MLRA 144, 145, 149I)         Sandy Redox (S5)       Redox Depresent, unless disturbed or problematic.         Restrictive Layer (if observed):       12         Type:       Hard clay         Uppth (inches):       12					· —					
Type:       Longer Market Surface (SP)       Depleted Mark (SP)         Hydric Soil Indicators:       Indicators for Problematic Hydric Soils?         Histic Epipedion (A2)       Thin Dark Surface (SP) (LRR R, MLRA 149B)         Black Histic (A3)       Loamy Gleyed Mark (F2)         Black Histic (A3)       Loamy Gleyed Mark (F2)         Strattified Layers (A5)       Z Depleted Mark (F2)         Depleted Below Dark Surface (A11)       Redox Dark Surface (F6)         Thin Dark Surface (A12)       Depleted Dark Surface (F7)         Sandy Mucky Mineral (S1)       Redox Depressions (F8)         Sandy Redox (S5)       Depleted Mark (S4)         Sandy Redox (S5)       Bark Hirds (S6)         Dark Surface (S7) (LRR K, L)       Red Parent Material (F21)         Stripped Matrix (S6)       Very Shallow Dark Surface (T72)         Dark Surface (S7) (LRR K, L)       Red Parent Material (F21)         Stripped Matrix (S6)       Very Shallow Dark Surface (T72)         Dark Surface (S7) (LRR K, M. MA 149B)       Very Shallow Dark Surface (T72)         Dark Surface (S7) (LRR K, M. M. 1448, 145, 149)       Very Shallow Dark Surface (T72)         Stripped Matrix (S6)       Very Shallow Dark Surface (T72)         Dark Surface (S7) (LRR K, M. M. 149B)       Very Shallow Dark Surface (T72)         Type:       Hard clay	$^{1}$ Type: C = Co	ncentration D =	 Denlet	ion RM = Reduce	d Mat	rix MS =	Masked	Sand Grains 21	ocation: Pl	= Pore Lining M = Matrix
Histosol (A1)       Polyvalue Below Surface (S3) (LRR R, MLRA 149B)       2 cm Muck (A10) (LRR K, L, RLRA 149B)         Histos (A3)       Loamy Mucky Mineral (F1) (LRR K, L)       5 cm Muck (A10) (LRR K, L, R)         Black Histic (A3)       Loamy Mucky Mineral (F1) (LRR K, L)       5 cm Mucky Peat or Peat (S3) (LRR K, L, R)         Stratified Layers (A5)       2 Depleted Matrix (F2)       Dark Surface (S3) (LRR K, L)         Depleted Below Dark Surface (A11)       Depleted Dark Surface (F7)       Thin Dark Surface (S5) (LRR K, L)         Standy Mucky Mineral (S1)       Redox Dark Surface (F7)       Thin Dark Surface (S5) (LRR K, L)         Sandy Gleyed Matrix (S4)       Beloed Matrix (S4)       Piedmont Floodplain Soils (F19) (MLRA 144, 145, 149)         Sandy Gleyed Matrix (S6)       Piedmont Material (F21)       Very Shallow Dark Surface (T71)         Stripped Matrix (S6)       Piedmont Material (F21)       Very Shallow Dark Surface (T72)         Dark Surface (S7) (LRR R, MLRA 149B)       Other (Explain in Remarks)         3Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.         Restrictive Layer (If Observed):       Type:       Hard clay         Type:       Hard clay       Hydric Soil Present?       Yes No         Depth (inches):       12       Remarks:	Hydric Soil In	dicators:	Depiet	ion, nui - Neudce		,	muskeu	Sana Granis, -E	Indicator	rs for Problematic Hydric Soils <sup>3</sup>
Histic Epigedon (A2)     Histic Epigedon (A2)     Histic Epigedon (A2)     Histic Epigedon (A2)     Loamy Mucky Mineral (F1) (LRR K, L)     Sort Trairie Redox (A16) (LRR K, L, R)     Hydrogen Sulfide (A4)     Loamy Gleyed Matrix (F2)     Depleted Below Dark Surface (A11)     Redox Dark Surface (F6)     Thick Dark Surface (A12)     Depleted Dark Surface (F7)     Thick Dark Surface (A12)     Sandy Mucky Mineral (F1)     Sandy Mucky Mineral (F3)     Sandy Redox (S5)     Stripped Matrix (S4)     Stripped Matrix (S5)     Stripped Matrix (S6)     Stripped Matrix (S6)     Stripped Matrix (S6)     Stripped Matrix (S6)     Stripped Matrix (S1)     Depleted Dark Surface (F7)     Thick Dark Surface (S7) (LRR K, L, R)     Sandy Mucky Mineral (F3)     Sandy Redox (S5)     Stripped Matrix (S6)     Stripped Matrix (S7)     Dark Surface (S7) (LRR R, MLRA 149B)     Stripped Matrix (S6)     Stripped Matrix (S7)     Stripped Matrix (S6)     Stri	Histocol	(41)		Polyvalue P	مارماد	Surface /	58) /I DD		-	
Inite Carl Solution (1997)     Inite Carl Solution (1997)     Coast Prairie Redox (A16) (LRR K, L, R)     Hydrogen Sulfide (A4)     Loamy Gleyed Matrix (F2)     Stratified Layers (A5)     Z Depleted Matrix (F3)     Depleted Bow Surface (A11)     Redox Dark Surface (F7)     Thick Dark Surface (A12)     Depleted Dark Surface (F7)     Sandy Mucky Mineral (51) (LRR K, L)     Sandy Gleyed Matrix (S6)     Sandy Redox (S5)     Sandy Redox (S7) (LRR R, MLRA 149B)     Text Surface (S7) (LRR R, MLRA 147B)     Dark Surface (S7) (LRR R, MLRA 147B)     Thick Surface (S7) (LRR R, MLRA 147B)     The Composition of the present, unless disturbed or problematic. Restrictive Layer (if observed):     Type:     Hard clay     Hydric Soil Present?     Yes _∠_ No      Remarks:	Histic Eni	nedon (A2)		Thin Dark S	urface	(SQ) <b>(I D</b>	DOTICKK DR MID	κ, Ινίεκα 149D) Δ 149R)	2 cm	Muck (A10) (LRR K, L, MLRA 149B)
	Black His	tic (A3)			kv Mir	neral (F1)			Coas	t Prairie Redox (A16) <b>(LRR K, L, R)</b>
Type: Hard clay     Hydro Soft arms (F3) Depleted Matrix (F3) Depleted Below Dark Surface (A11) Redox Depressions (F8) Tron-Manganese Masses (F12) (LRR K, L) Tron-Manganese Masses (F12) (LRR K, L) Tron-Manganese Masses (F12) (LRR K, L) Piedmont Floodplain Soils (F19) (MLRA 14A	Hvdroger	n Sulfide (A4)		Loamy Glev	ed Ma	itrix (F2)		_)	5 cm	Mucky Peat or Peat (S3) <b>(LRR K, L, R)</b>
Depleted Below Dark Surface (A11)Redox Dark Surface (F6)Thin Dark Surface (S3) (LRR K, L)Thin Dark Surface (S3) (LRR K, L)Thin Dark Surface (S3) (LRR K, L)	Stratified	Lavers (A5)		✓ Depleted M	atrix (	F3)			Dark	Surface (S7) <b>(LRR K, L)</b>
Thick Dark Surface (A12) Depleted Dark Surface (F7) Thin Dark Surface (59) (LRR K, L, E Sandy Mucky Mineral (51) Redox Depressions (F8) Iron-Manganese Masses (F12) (LRR K, L, E Sandy Redox (55) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (57) (LRR R, MLRA 149B) Other (Explain in Remarks) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Hard clay Depth (inches): 12 Remarks:	Depleted	Below Dark Surfa	ace (A1	1) Redox Dark	Surfa	ce (F6)			Poly\	value Below Surface (S8) (LRR K, L)
Sandy Mucky Mineral (S1)Redox Depressions (F8)Iron-Manganese Masses (F12) (LRR K, L F 4 Sandy Gleyed Matrix (S4)Mesic Spodic (TA6) (MLRA 144A, 145, 149)Red Parent Material (F21)Other (Explain in Remarks) Stripped Matrix (S6)Very Shallow Dark Surface (TF12)Other (Explain in Remarks) andicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (If observed):	Thick Dar	k Surface (A12)		Depleted Da	ark Su	rface (F7	)		Thin	Dark Surface (S9) (LRR K, L)
Sandy Gleyed Matrix (54)Piedmont Floodplain Solis (F19) (MLRA 14A, 145, 149)Mesic Spodic (TA6) (MLRA 144A, 145, 149)Red Parent Material (F21)Very Shallow Dark Surface (TF12)Other (Explain in Remarks)	Sandy Mi	ucky Mineral (S1)		Redox Depr	essior	י. וs (F8)			Iron-	Manganese Masses (F12) (LRR K, L, R)
	Sandy Gl	eved Matrix (S4)				. ,			Piedr	mont Floodplain Soils (F19) <b>(MLRA 149B)</b>
	Sandy Re	dox (S5)							Mesi	c Spodic (TA6) <b>(MLRA 144A, 145, 149B)</b>
	Stripped	Matrix (S6)							Red I	Parent Material (F21)
	Dark Sur	face (S7) <b>(LRR R. N</b>	/LRA 14	49B)					Very	Shallow Dark Surface (TF12)
Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.         Restrictive Layer (if observed):         Type:       Hard clay         Depth (inches):       12    Remarks:				,					Othe	er (Explain in Remarks)
Restrictive Layer (if observed): Type: <u>Hard clay</u> Depth (inches): 12 Remarks: Yes <u>No</u>	<sup>3</sup> Indicators o	f hydrophytic veg	etatior	n and wetland hyc	Irolog	y must b	e preser	nt, unless disturbe	d or probl	ematic.
Type: Hard clay Depth (inches): 12 Remarks:	Restrictive La	ayer (if observed):								
Depth (inches): 12 Remarks:	T	ype:		Hard clay			Hydric	Soil Present?		Yes No
Remarks:	[	Depth (inches):		12						
	Remarks:									



Photo of Sample Plot East



# WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Riverside	Project/Site: Riverside Solar City/County: Cl				erson		Sampling Date: 2020-June-04		
Applicant/Owner: G	pplicant/Owner: Geronimo				State: NY		Sampling Point: W	/-BTF-09_PEM-1	
Investigator(s): Bren	iner Fahrenz, B	ridgette Rooney, I	3en Popham	Sec	tion, Township, Ra	inge:			
Landform (hillslope, te	rrace, etc.):	Stream		Local relief	(concave, convex	, none):	Concave	Slope (%): 1 to 3	
Subregion (LRR or MLR	RA): LRR R			Lat:	44.0626300171	Long:	-76.0899930758	Datum: WGS84	
Soil Map Unit Name:	GvGuffin cla	У					NWI classifica	ition:	
Are climatic/hydrologic	conditions on	the site typical fo	r this time of ye	ar?	Yes 🟒 No 🔄	(If no	o, explain in Remarl	<s.)< td=""></s.)<>	
Are Vegetation,	Soil, c	or Hydrology	significantly dis	sturbed?	Are "Normal (	Circums	tances" present?	Yes 🟒 No	
Are Vegetation,	Soil, c	or Hydrology	naturally probl	lematic?	(If needed, ex	plain ar	y answers in Rema	rks.)	

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

Hydrophytic Vegetation Present?	Yes 🟒 No		
Hydric Soil Present?	Yes 🟒 No	Is the Sampled Area within a Wetland?	Yes 🯒 No
Wetland Hydrology Present?	Yes 🟒 No	If yes, optional Wetland Site ID:	W-BTF-09
Remarks: (Explain alternative procedur	es here or in a separate repo	prt)	
Covertype is PEM.			

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

Sampling Point: W-BTF-09\_PEM-1

1. <i>Fraxinus pennsylvanica</i>						1	(A)
	20	Yes	FACW	Are OBL, FACW, or FA	AC:	4	(A)
2				Total Number of Don	ninant Species	4	(B)
3				Across All Strata:			
4				- Are OBL, FACW, or FA		100	(A/B)
5				Prevalence Index wo	rksheet:		
б				- Total % Cov	er of:	Multiply	Bv:
7				- OBL species	65	x 1 =	65
	20	= Total Cov	er	FACW species	75	x 2 =	150
<u>Sapling/Shrub Stratum</u> (Plot size: <u>15 ft</u> )				FAC species	0	x 3 =	0
1. <i>Salix nigra</i>	15	Yes	OBL	- FACU species	0	x 4 =	0
2				- UPL species	0	x 5 =	0
3				- Column Totals	140	(A)	215 (B)
4				- Prevalence	Index = B/A =	1.5	210 (0)
5							
6				Hydrophytic Vegetati	ion indicators:	(	
7						regetation	
	15	= Total Cov	er	2 - Dominance	rest is $>50\%$		
<u>Herb Stratum</u> (Plot size: <u>5 ft</u> )				3 - Prevalence I	$10ex IS \leq 3.0^{\circ}$	(Duessiale	
1. Typha angustifolia	45	Yes	OBL	4 - Morphologic	al Auaptations	(Provide	supporting
2. Phalaris arundinacea	40	Yes	FACW	Problematic Hy	dronhytic Vege	tation <sup>1</sup> (Ex	nlain)
3. Anemone canadensis	10	No	FACW	<sup>1</sup> Indicators of hydric	soil and wetlan	d hydrolo	ov must he
4. Impatiens capensis	5	No	FACW	present, unless distu	rbed or proble	matic	by must be
5. Scirpus atrovirens	5	No	OBL	Definitions of Vegeta	tion Strata:		
6.				Tree – Woody plants	3 in. (7.6 cm) or	r more in o	diameter at
7.				breast height (DBH),	regardless of h	eight.	
8.		·		Sapling/shrub – Woo	dy plants less t	han 3 in. [	OBH and
9.				greater than or equa	l to 3.28 ft (1 m	) tall.	
10.				Herb – All herbaceou	ıs (non-woody)	plants, re	gardless of
11.				size, and woody plan	its less than 3.2	8 ft tall.	
12		· ·		Woody vines – All wo	ody vines great	ter than 3.	.28 ft in
	105	= Total Cov	er	height.			
Woody Vine Stratum (Plot size: 30 ft )		-	CI	Hydrophytic Vegetat	tion Present?	/es 🟒 N	lo
1	0						
י. <u></u>	0	·		-			
۲				-			
۰	<u> </u>			-			
+	<u></u>	= Total Cov	er	-			
	0		C1				

iches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture		Remarks
) - 16	10YR 3/1	85	10YR 4/6	15	С	M/PL	Silty Clay		
		· ·		·	. <u> </u>			<u> </u>	
		· ·							
		· ·		·					
		· ·		·					
				_					
		· ·							
		· ·							
			in DM Deduc			Markard	and Casimo 21		
ric Soil Inc	licators:	Deplet	ion, RIVI = Reduce		itrix, ivis =	= Masked Sa	ind Grains. <sup>2</sup> Li	Indicat	PL = Pore Lining, M = Matrix. cors for Problematic Hydric Soils <sup>3</sup> :
Histosol (A	(1)		Polyvalue E	Below	Surface (	(58) <b>(LRR R, I</b>	VILRA 149B)	2 c	m Muck (A10) <b>(LRR K, L, MLRA 149B)</b>
Histic Epip Black Histi	edon (A2)		Thin Dark S	Surfac	e (S9) <b>(LR</b> ineral (E1	R R, MLRA 1	49B)	Coa	ast Prairie Redox (A16) <b>(LRR K, L, R)</b>
-lvdrogen	Sulfide (A4)		Loamy Glev	/ed M	latrix (F2)			5 c	m Mucky Peat or Peat (S3) (LRR K, L, R)
Stratified L	_ayers (A5)		Depleted N	latrix	(F3)			Dai	rk Surface (S7) (LRR K, L)
Depleted E	Below Dark Surf	ace (A1	1) 🖌 Redox Dark	c Surf	ace (F6)			Thi	n Dark Surface (S9) (I RR K 1)
hick Dark	(C.) (A 1 2)		Depleted D	ark S	urface (F7	7)		!ro	
	Surface (ATZ)		Depieted D		•	-		11()	<u>N-Manganese Masses (FTZ) (ERK K. T. K)</u>
Sandy Muc	cky Mineral (S1)		Redox Dep	ressic	ons (F8)			Pie	dmont Floodplain Soils (F12) <b>(MRR K, L, R)</b>
Sandy Muc Sandy Gley	cky Mineral (S1) yed Matrix (S4)		Redox Dep	ressic	ons (F8)			Pie Me	dmont Floodplain Soils (F12) (LKR K, L, K) sic Spodic (TA6) (MLRA 144A, 145, 149B)
Sandy Muc Sandy Gley Sandy Red	cky Mineral (S1) yed Matrix (S4) lox (S5)		Redox Dep	ressic	ons (F8)			Pie Pie Me	dmont Floodplain Soils (F12) <b>(LKR K, L, K)</b> dmont Floodplain Soils (F19) <b>(MLRA 149B</b> ) sic Spodic (TA6) <b>(MLRA 144A, 145, 149B)</b> d Parent Material (F21)
Sandy Muc Sandy Gle Sandy Red Stripped M	cky Mineral (S12) yed Matrix (S4) lox (S5) /Jatrix (S6)		Redox Dep	ressic	ons (F8)			Pie Pie Me Rec Ver	dmont Floodplain Soils (F12) <b>(LKK K, L, K)</b> dmont Floodplain Soils (F19) <b>(MLRA 149B)</b> sic Spodic (TA6) <b>(MLRA 144A, 145, 149B)</b> d Parent Material (F21) y Shallow Dark Surface (TF12)
Sandy Muc Sandy Gle Sandy Red Stripped M Dark Surfa	csurface (A12) cky Mineral (S1) yed Matrix (S4) lox (S5) Matrix (S6) ace (S7) <b>(LRR R, N</b>	/ILRA 1	Redox Dep	ressic	ons (F8)			Pie Me Rec Ver Oth	dmont Floodplain Soils (F12) (LKK K, L, K) dmont Floodplain Soils (F19) (MLRA 149B) sic Spodic (TA6) (MLRA 144A, 145, 149B) d Parent Material (F21) ry Shallow Dark Surface (TF12) her (Explain in Remarks)
Sandy Mur Sandy Gle Sandy Red Stripped M Dark Surfa	cky Mineral (S12) yed Matrix (S4) lox (S5) Aatrix (S6) ace (S7) <b>(LRR R, N</b> hydrophytic veg	ILRA 1	Redox Dep Redox Dep 49B)	ressic drolo	ons (F8) gy must l	be present, i	unless disturbe	Pie Me Rec Ver Oth	dmont Floodplain Soils (F12) <b>(LKK K, L, K)</b> dmont Floodplain Soils (F19) <b>(MLRA 149B)</b> sic Spodic (TA6) <b>(MLRA 144A, 145, 149B)</b> d Parent Material (F21) y Shallow Dark Surface (TF12) her (Explain in Remarks) blematic.
Sandy Mur Sandy Gle Sandy Red Stripped N Dark Surfa licators of trictive Lay	csurface (A12) cky Mineral (S1) yed Matrix (S4) lox (S5) Matrix (S6) ace (S7) (LRR R, M hydrophytic veg yer (if observed)	ILRA 1	49B)	ressic	ons (F8) gy must t	be present, i	unless disturbe	Pie Me Rec Ver Oth	dmont Floodplain Soils (F12) (LKK K, L, K) dmont Floodplain Soils (F19) (MLRA 149B) sic Spodic (TA6) (MLRA 144A, 145, 149B) d Parent Material (F21) ry Shallow Dark Surface (TF12) her (Explain in Remarks) blematic.
Sandy Mur Sandy Gle <u>y</u> Sandy Red Stripped M Dark Surfa <u>licators of</u> <b>trictive Lay</b> Ty	cky Mineral (S12) cky Mineral (S1) yed Matrix (S4) lox (S5) Matrix (S6) ace (S7) (LRR R, M hydrophytic veg yer (if observed) pe:	ILRA 1	49B) and wetland hy Bedrock	drolo	ons (F8) gy must t	be present, t	unless disturbe Present?	Pie Me Rec Ver Oth	Manganese Masses (F12) (LKK K, L, K) dmont Floodplain Soils (F19) (MLRA 149B) sic Spodic (TA6) (MLRA 144A, 145, 149B) d Parent Material (F21) ry Shallow Dark Surface (TF12) her (Explain in Remarks) blematic.
Sandy Mu Sandy Gle <u>y</u> Sandy Red Stripped M Dark Surfa <u>icators of</u> <b>rictive Lay</b> Ty De	cky Mineral (S12) cky Mineral (S1) yed Matrix (S4) lox (S5) Matrix (S6) ace (S7) <b>(LRR R, N</b> hydrophytic veg yer (if observed) pe: epth (inches):	ILRA 1	49B) and wetland hy Bedrock 16	drolo	ons (F8) gy must t	be present, t	unless disturbe Present?	Pie Ne Rec Ver Oth	dmont Floodplain Soils (F12) (LKR K, L, K) dmont Floodplain Soils (F19) (MLRA 149B) sic Spodic (TA6) (MLRA 144A, 145, 149B) d Parent Material (F21) ry Shallow Dark Surface (TF12) her (Explain in Remarks) blematic.
Sandy Mu Sandy Gley Sandy Red Stripped M Dark Surfa icators of rictive Lay Ty De arks:	cky Mineral (S1) yed Matrix (S4) lox (S5) Aatrix (S6) ace (S7) (LRR R, N hydrophytic veg yer (if observed) pe: epth (inches):	ILRA 1	49B) and wetland hy Bedrock 16	drolo	gy must t	be present, t	unless disturbe Present?	If 0 Pie Me Rec Ver Oth	Manganese Masses (F12) (LRR N, L, R) dmont Floodplain Soils (F19) (MLRA 149B) sic Spodic (TA6) (MLRA 144A, 145, 149B) d Parent Material (F21) ry Shallow Dark Surface (TF12) her (Explain in Remarks) blematic.
Gandy Mu Gandy Gle Gandy Red Stripped N Dark Surfa Cators of rictive Lay Ty De Darks:	cky Mineral (S12) cky Mineral (S1) yed Matrix (S4) lox (S5) Matrix (S6) ace (S7) <b>(LRR R, N</b> <u>hydrophytic veg</u> <b>yer (if observed)</b> pe: epth (inches):	ILRA 1 ;etatior : 	Redox Dep  49B) 1 and wetland hy Bedrock 16	drolo	gy must t	be present, t	unless disturbe Present?	If 0 Pie Me Rec Ver Oth	Manganese Masses (F12) (LRR N, L, R) dmont Floodplain Soils (F19) (MLRA 149B) sic Spodic (TA6) (MLRA 144A, 145, 149B) d Parent Material (F21) ry Shallow Dark Surface (TF12) her (Explain in Remarks) blematic.
Gandy Mu Gandy Gle Gandy Red Stripped M Dark Surfa Cators of rictive Lay Ty De arks:	cky Mineral (S1) yed Matrix (S4) lox (S5) Matrix (S6) ace (S7) <b>(LRR R, N</b> hydrophytic veg yer (if observed) pe: epth (inches):	ILRA 1 setation	Redox Dep Redox Dep 1 and wetland hy Bedrock 16	drolo	gy must t	be present, t	unless disturbe Present?	If 0 Pie Me Ver Oth ed or pro	Manganese Masses (F12) (LRR N, L, R) dmont Floodplain Soils (F19) (MLRA 149B) sic Spodic (TA6) (MLRA 144A, 145, 149B) d Parent Material (F21) ry Shallow Dark Surface (TF12) her (Explain in Remarks) blematic.
Gandy Mu Gandy Gle Gandy Red Stripped M Dark Surfa Cators of rictive Lay Ty De arks:	cky Mineral (S1) yed Matrix (S4) lox (S5) Matrix (S6) ace (S7) <b>(LRR R, N</b> hydrophytic veg <b>/er (if observed)</b> pe: epth (inches):	ILRA 1 setation	Redox Dep Redox Dep <u>and wetland hy</u> Bedrock 16	drolo,	gy must t	be present, t Hydric Soil	unless disturbe Present?	II O Pie Me Ver Oth ed or pro	Manganese Masses (F12) (LRR N, L, R) dmont Floodplain Soils (F19) (MLRA 149B) sic Spodic (TA6) (MLRA 144A, 145, 149B) d Parent Material (F21) ry Shallow Dark Surface (TF12) her (Explain in Remarks) blematic.
Gandy Mur Gandy Gle Gandy Red Stripped M Dark Surfa Cators of rictive Lay Ty De arks:	cky Mineral (S1) yed Matrix (S4) lox (S5) Matrix (S6) ace (S7) <b>(LRR R, N</b> hydrophytic veg <b>yer (if observed)</b> pe: epth (inches):	ILRA 1	Redox Dep Redox Dep 1 and wetland hy Bedrock 	drolo	gy must t	be present, t Hydric Soil	unless disturbe Present?	II 0 Pie Me Ver Oth ed or pro	Manganese Masses (F12) (LRR N, L, R) dmont Floodplain Soils (F19) (MLRA 149B sic Spodic (TA6) (MLRA 144A, 145, 149B) d Parent Material (F21) ry Shallow Dark Surface (TF12) ner (Explain in Remarks) blematic.
Sandy Mu Sandy Gle Sandy Red Stripped M Dark Surfa icators of rrictive Lay Ty De harks:	cky Mineral (S1) yed Matrix (S4) lox (S5) Matrix (S6) ace (S7) <b>(LRR R, N</b> hydrophytic veg <b>yer (if observed)</b> pe: epth (inches):	ILRA 1	Redox Dep Redox Dep 1 and wetland hy Bedrock 	drolo	gy must t	be present, t Hydric Soil	unless disturbe Present?	II O Pie Me Ver Oth ed or pro	Manganese Masses (F12) (LRR N, L, R) dmont Floodplain Soils (F19) (MLRA 149B sic Spodic (TA6) (MLRA 144A, 145, 149B) d Parent Material (F21) ry Shallow Dark Surface (TF12) her (Explain in Remarks) blematic.
Sandy Mur Sandy Gle Sandy Reo Stripped M Dark Surfa icators of irictive Lay Ty De narks:	cky Mineral (S1) yed Matrix (S4) lox (S5) Matrix (S6) ace (S7) <b>(LRR R, N</b> hydrophytic veg <b>yer (if observed)</b> pe: epth (inches):	ILRA 1	Redox Dep Redox Dep 1 and wetland hy Bedrock 16	drolo	gy must t	be present, t	unless disturbe Present?	II 0 Pie Me Ver Oth ed or pro	Manganese Masses (F12) (LRR N, L, K) dmont Floodplain Soils (F19) (MLRA 149B sic Spodic (TA6) (MLRA 144A, 145, 149B) d Parent Material (F21) ry Shallow Dark Surface (TF12) ner (Explain in Remarks) blematic.
Sandy Mur Sandy Gle Sandy Rec Stripped M Dark Surfa icators of trictive Lay Ty De harks:	cky Mineral (S1) yed Matrix (S4) lox (S5) Matrix (S6) ace (S7) <b>(LRR R, N</b> hydrophytic veg yer (if observed) pe: epth (inches):	/ILRA 1 :etatior :	Redox Dep Redox Dep 1 and wetland hy Bedrock 16	drolo	gy must t	be present, t	unless disturbe Present?	II O Pie Me Ver Oth ed or pro	Manganese Masses (F12) (LRR K, L, K) dmont Floodplain Soils (F19) (MLRA 149B) sic Spodic (TA6) (MLRA 144A, 145, 149B) d Parent Material (F21) ry Shallow Dark Surface (TF12) her (Explain in Remarks) blematic.
Sandy Mur Sandy Gle Sandy Rec Stripped M Dark Surfa icators of trictive Lay Ty De marks:	cky Mineral (S1) yed Matrix (S4) lox (S5) Matrix (S6) ace (S7) (LRR R, N hydrophytic veg yer (if observed) pe: epth (inches):	/ILRA 1 :	Redox Dep Redox Dep 1 and wetland hy Bedrock 16	drolo	gy must t	be present, t	unless disturbe Present?	II 0 Pie Me Ver Oth ed or pro	Manganese Masses (F12) (LRR K, L, K) dmont Floodplain Soils (F19) (MLRA 149B) sic Spodic (TA6) (MLRA 144A, 145, 149B) d Parent Material (F21) ry Shallow Dark Surface (TF12) her (Explain in Remarks) blematic.
Sandy Mur Sandy Gle Sandy Rec Stripped M Dark Surfa icators of trictive Lay Ty De harks:	cky Mineral (S1) yed Matrix (S4) lox (S5) Aatrix (S6) ace (S7) (LRR R, N hydrophytic veg yer (if observed) pe: epth (inches):	/ILRA 1 :	Redox Dep Redox Dep 1 and wetland hy Bedrock 16	drolo	gy must t	be present, i	unless disturbe Present?	II OI Pie Me Ver Oth ed or pro	Manganese Masses (F12) (LKR K, L, K) dmont Floodplain Soils (F19) (MLRA 149B) sic Spodic (TA6) (MLRA 144A, 145, 149B) d Parent Material (F21) ry Shallow Dark Surface (TF12) her (Explain in Remarks) blematic.
Sandy Mu Sandy Gle Sandy Rec Stripped M Dark Surfa icators of crictive Lay De Darks:	cky Mineral (S1) yed Matrix (S4) lox (S5) Aatrix (S6) ace (S7) (LRR R, N hydrophytic veg yer (if observed) pe: epth (inches):	/ILRA 1 ;etatior : 	Redox Dep Redox Dep 1 and wetland hy Bedrock 16	drolo	gy must t	be present, i	unless disturbe Present?	II OI Pie Me Ver Oth ed or pro	Manganese Masses (F12) (LKR K, L, K) dmont Floodplain Soils (F19) (MLRA 149B) sic Spodic (TA6) (MLRA 144A, 145, 149B) d Parent Material (F21) ry Shallow Dark Surface (TF12) her (Explain in Remarks) blematic.
Sandy Mur Sandy Gle Sandy Rec Stripped M Dark Surfa trictive Lay Ty De narks:	cky Mineral (S1) yed Matrix (S4) lox (S5) Aatrix (S6) ace (S7) (LRR R, N hydrophytic veg yer (if observed) pe: epth (inches):	/ILRA 1 ;etatior :	Redox Dep Redox Dep 1 and wetland hy Bedrock 16	drolo	gy must t	be present, t	unless disturbe Present?	If O	Manganese Masses (F12) (LKR K, L, K) dmont Floodplain Soils (F19) (MLRA 149B) sic Spodic (TA6) (MLRA 144A, 145, 149B) d Parent Material (F21) ry Shallow Dark Surface (TF12) her (Explain in Remarks) blematic.
Sandy Mur Sandy Gle Sandy Rec Stripped M Dark Surfa licators of trictive Lay De narks:	cky Mineral (S1) yed Matrix (S4) lox (S5) Aatrix (S6) ace (S7) (LRR R, N hydrophytic veg yer (if observed) pe: epth (inches):	/ILRA 1 ;etatior :	Depicted D Redox Dep 1 and wetland hy Bedrock 16	drolo	gy must t	be present, t	unless disturbe Present?	II OI Pie Me Ver Oth ed or pro	<pre>Manganese Masses (F12) (LKR K, L, K) dmont Floodplain Soils (F19) (MLRA 149B) sic Spodic (TA6) (MLRA 144A, 145, 149B) d Parent Material (F21) ry Shallow Dark Surface (TF12) her (Explain in Remarks) blematic. Yes No</pre>
Sandy Mu Sandy Gle Sandy Rec Stripped M Dark Surfa licators of trictive Lay Ty De narks:	cky Mineral (S1) yed Matrix (S4) lox (S5) Aatrix (S6) ace (S7) (LRR R, N hydrophytic veg yer (if observed) pe: epth (inches):	ALRA 1	Depicted D Redox Dep 49B) <u>1 and wetland hy</u> Bedrock 16	drolo.	gy must t	be present, t	unless disturbe Present?	II O Pie Me Ver Oth ed or pro	<pre>Manganese Masses (F12) (LRR K, L, K) dmont Floodplain Soils (F19) (MLRA 149B) sic Spodic (TA6) (MLRA 144A, 145, 149B) d Parent Material (F21) ry Shallow Dark Surface (TF12) her (Explain in Remarks) blematic. Yes No</pre>
Sandy Mur Sandy Gle Sandy Rec Stripped N Dark Surfa licators of trictive Lay Ty De narks:	cky Mineral (S1) yed Matrix (S4) lox (S5) Matrix (S6) ace (S7) <b>(LRR R, N</b> hydrophytic veg <b>yer (if observed)</b> pe: epth (inches):	ILRA 1	Redox Dep Redox Dep 1 and wetland hy Bedrock 	drolo	gy must t	be present, t	unless disturbe Present?	II O Pie Me Ver Oth ed or pro	Manganese Masses (F12) (LRR N, L, R) dmont Floodplain Soils (F19) (MLRA 149B) sic Spodic (TA6) (MLRA 144A, 145, 149B) d Parent Material (F21) ry Shallow Dark Surface (TF12) her (Explain in Remarks) blematic. Yes No
Sandy Mur Sandy Gle Sandy Rec Stripped N Dark Surfa icators of trictive Lay De harks:	cky Mineral (S1) yed Matrix (S4) lox (S5) Matrix (S6) ace (S7) (LRR R, N hydrophytic veg yer (if observed) pe: epth (inches):	ALRA 1	Depicted D Redox Dep 1 and wetland hy Bedrock 16	drolo	gy must t	be present, t	unless disturbe Present?	II 0 Pie Me Ver Oth ed or pro	Manganese Masses (F12) (LRR N, L, K) dmont Floodplain Soils (F19) (MLRA 149B) sic Spodic (TA6) (MLRA 144A, 145, 149B) d Parent Material (F21) ry Shallow Dark Surface (TF12) her (Explain in Remarks) blematic.
Sandy Mur Sandy Gle Sandy Rec Stripped N Dark Surfa icators of trictive Lay De marks:	cky Mineral (S1) yed Matrix (S4) lox (S5) Matrix (S6) ace (S7) (LRR R, N hydrophytic veg yer (if observed) pe: epth (inches):	ALRA 1	49B) and wetland hy Bedrock 16	drolo	gy must t	be present, i	unless disturbe Present?	II 0 Pie Me Ver Oth ed or pro	Manganese Masses (F12) (LRR N, L, K) dmont Floodplain Soils (F19) (MLRA 149B sic Spodic (TA6) (MLRA 144A, 145, 149B) d Parent Material (F21) ry Shallow Dark Surface (TF12) her (Explain in Remarks) blematic.



Photo of Sample Plot North





# WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Riverside	Project/Site: Riverside Solar City/County: Cl						Sampling Date:	2020-June-04	
Applicant/Owner: G	oplicant/Owner: Geronimo				State: NY		Sampling Point: W-BTF-09_UPL-1		
Investigator(s): Bren	iner Fahrenz, E	Bridgette Rooney, E	Ben Popham	Sec	ion, Township, Ra	inge:			
Landform (hillslope, ter	rrace, etc.):	Knob	Lo	ocal relief	(concave, convex,	, none):	Convex	Slope (%): 2 to 5	
Subregion (LRR or MLR	RA): LRR F	ł		Lat:	44.0620078215	Long:	-76.0908332872	Datum: WGS84	
Soil Map Unit Name:	VeBVergen	nes silty clay loam,	3 to 8 percent slo	pes			NWI classific	ation:	
Are climatic/hydrologic	conditions or	the site typical for	r this time of year	?	Yes 🟒 No 🔄	(If n	o, explain in Remar	ˈks.)	
Are Vegetation 🟒,	Soil,	or Hydrology	significantly distu	irbed?	Are "Normal (	Circums	tances" present?	Yes No 🟒	
Are Vegetation,	Soil,	or Hydrology	naturally problen	natic?	(If needed, ex	plain ar	iy answers in Rema	arks.)	

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

Hydrophytic Vegetation Present?	Yes No 🟒		
Hydric Soil Present?	Yes No 🟒	Is the Sampled Area within a Wetland?	Yes No 🟒
Wetland Hydrology Present?	Yes No 🟒	lf yes, optional Wetland Site ID:	
Remarks: (Explain alternative procedures her Covertype is UPL. Circumstances are not norr	e or in a separate report	) ctivities. Circumstances are not normal due to mowing	of vegetation.

Wetland Hydrology Indicators:				
Primary Indicators (minimum of or	ne is requi	ired; check all t	that apply)	Secondary Indicators (minimum of two required)
<ul> <li>Surface Water (A1)</li> <li>High Water Table (A2)</li> <li>Saturation (A3)</li> <li>Water Marks (B1)</li> <li>Sediment Deposits (B2)</li> <li>Drift Deposits (B3)</li> <li>Algal Mat or Crust (B4)</li> <li>Iron Deposits (B5)</li> <li>Inundation Visible on Aerial Im.</li> </ul>	agery (B7)	Water- Aquati Marl D Hydrog Oxidize Preser Recent Thin M	Stained Leaves (B9) c Fauna (B13) peposits (B15) gen Sulfide Odor (C1) ed Rhizospheres on Living Roots (C3) nce of Reduced Iron (C4) t Iron Reduction in Tilled Soils (C6) luck Surface (C7) (Explain in Remarks)	<ul> <li>Surface Soil Cracks (B6)</li> <li>Drainage Patterns (B10)</li> <li>Moss Trim Lines (B16)</li> <li>Dry-Season Water Table (C2)</li> <li>Crayfish Burrows (C8)</li> <li>Saturation Visible on Aerial Imagery (C9)</li> <li>Stunted or Stressed Plants (D1)</li> <li>Geomorphic Position (D2)</li> <li>Shallow Aquitard (D3)</li> <li>Microtopographic Relief (D4)</li> <li>EAC-Neutral Test (D5)</li> </ul>
Field Observations:				
Surface Water Present?	Yes	_ No 🟒	Depth (inches):	
Water Table Present?	Yes	No	Depth (inches):	Wetland Hydrology Present? Yes No
Saturation Present?	Yes	_ No 🟒	Depth (inches):	
(includes capillary fringe)				
Describe Recorded Data (stream g	auge, moi	nitoring well, a	erial photos, previous inspections), i	f available:

Sampling Point: W-BTF-09\_UPL-1

<u>Tree Stratum</u> (Plot size: <u>30 ft</u> )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test work	<b>(sheet:</b> t Species That	0	(A)
1	0			- Total Number of Dom	ninant Species		
2		<u> </u>		Across All Strata:	initiane opecies	2	(B)
3.				Percent of Dominant	Species That	0	(A /D)
ч. 				Are OBL, FACW, or FA	IC:		(AV D)
6		·		<ul> <li>Prevalence Index wor</li> </ul>	rksheet:		
7		·		- <u>Total % Cove</u>	<u>er of:</u>	<u>Multiply</u>	<u>/ By:</u>
/		= Total Cov	or	- OBL species	0	x 1 =	0
Sanling/Shruh Stratum (Plot size: 15 ft )		- 10001 000	CI	FACW species	0	x 2 =	0
1	0			FAC species	0	x 3 =	0
2		·		- FACU species	100	x 4 =	400
3				- UPL species	0	x 5 =	0
3				- Column Totals	100	(A)	400 (B)
4				- Prevalence	Index = B/A =	4	
5		·		Hydrophytic Vegetati	on Indicators:		
o		<u> </u>		1- Rapid Test for	r Hydrophytic V	/egetatio	n
7		Tatal Ca		2 - Dominance T	「est is > 50%		
	0	= lotal Cov	er	3 - Prevalence Ir	ndex is $\leq 3.0^1$		
Herb Stratum (Plot size: <u>5 ft</u> )	50		FACU	4 - Morphologic	al Adaptations	<sup>1</sup> (Provide	e supporting
1. Vicia americana	50	res	FACU	- data in Remarks or o	n a separate sh	neet)	
2. Phieum pratense		Yes	FACU	– Problematic Hyd	drophytic Vege	tation <sup>1</sup> (E	xplain)
3. Lotus corniculatus		No	FACU	Indicators of hydric s	soil and wetlan	d hydrolo	ogy must be
4. <u>Trifolium repens</u>	5	No	FACU	present, unless distu	rbed or problei	matic	
5. Taraxacum officinale	5	No	FACU	Definitions of Vegetat	tion Strata:		
6. <i>Galium mollugo</i>	5	No	FACU	Tree – Woody plants	3 in. (7.6 cm) oı	r more in	diameter at
7. <u>Potentilla simplex</u>	5	No	FACU	breast height (DBH), i	regardless of h	eight.	
8				Sapling/shrub – Wood	dy plants less t	han 3 in.	DBH and
9				greater than or equal	1 to 3.28 ft (1 m	) tall.	
10				Herb – All herbaceou	s (non-woody)	plants, re	egardless of
11					ody vinos groat	o It lall.	20 ft in
12				- height	ouy viries great	ter than :	5.20 IL III
	100	= Total Cov	er			,	
<u>Woody Vine Stratum</u> (Plot size: <u>30 ft</u> )				Hydrophytic Vegetat	ion Present?	res	NO 🟒
1	0			_			
2				_			
3				_			
4							
	0	= Total Cov	er				
Remarks: (Include photo numbers here or on a se	parate sheet.)			_			

# Sampling Point: W-BTF-09\_UPL-1

Denth Mate	ribe to the d	epth needed to de Redox	ocume Featu	ent the i	ndicator	or confirm the al	osence of indicato	ors.)
(inches) Color (moi	st) %	Color (moist)	%	Tyne <sup>1</sup>	Loc <sup>2</sup>	Text	ure	Remarks
0 - 11 10YR 4/2	<u>100</u>					Silty Cla	y Loam	
Type: C = Concentration	, D = Depletic	on, RM = Reduced	Matri	x, MS = I	Masked S	Sand Grains. <sup>2</sup> Lo	ocation: PL = Pore	Lining, M = Matrix.
Hydric Soil Indicators:							Indicators for Pr	oblematic Hydric Soils <sup>3</sup> :
<ul> <li>Histosol (A1)</li> <li>Histosol (A1)</li> <li>Histic Epipedon (A2)</li> <li>Black Histic (A3)</li> <li>Hydrogen Sulfide (A4</li> <li>Stratified Layers (A5)</li> <li>Depleted Below Dark</li> <li>Thick Dark Surface (A</li> <li>Sandy Mucky Mineral</li> <li>Sandy Gleyed Matrix</li> <li>Sandy Redox (S5)</li> <li>Stripped Matrix (S6)</li> <li>Dark Surface (S7) (LRI</li> </ul>	) 12) (S1) (S4) <b>R R, MLRA 14</b>	<ul> <li>Polyvalue Bel</li> <li>Thin Dark Sur</li> <li>Loamy Mucky</li> <li>Loamy Gleyer</li> <li>Depleted Mar</li> <li>Redox Dark S</li> <li>Depleted Dar</li> <li>Redox Depre</li> </ul> 98)	ow Su face (! / Mine d Matr rix (F3 urface k Surf ssions	rtace (Si S9) <b>(LRR</b> ral (F1) ( ix (F2) ) : (F6) ace (F7) (F8)	3) (LRR R R, MLRA LRR K, L)	, MLRA 149B) 149B)	2 cm Muck (/ Coast Prairie 5 cm Mucky Dark Surface Polyvalue Be Thin Dark Su Iron-Mangar Piedmont Fle Mesic Spodie Red Parent M Very Shallow Other (Expla	A10) (LRR K, L, MLRA 149B) e Redox (A16) (LRR K, L, R) Peat or Peat (S3) (LRR K, L, R) e (S7) (LRR K, L) elow Surface (S8) (LRR K, L) urface (S9) (LRR K, L) nese Masses (F12) (LRR K, L, R) oodplain Soils (F19) (MLRA 149B) c (TA6) (MLRA 144A, 145, 149B) Material (F21) / Dark Surface (TF12) in in Remarks)
Restrictive Laver (if obser	ved):		ology	indst be		, unicos distarbe		
Type:	vea).	Bedrock			Hydric 9	Soil Present?		Yes No 🖌
Depth (inche	5):	11						····
Remarks:								



Photo of Sample Plot North Photo of Sample Plot West



# WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Riverside	Solar	City/County: Ch	aumont, Jeffe	rson		Sampling Date:	2020-June-05
Applicant/Owner: G	eronimo			State: NY		Sampling Point: <u>W</u>	/-BTF-10_PEM-1
Investigator(s): Bren	iner Fahrenz, I	Bridgette Rooney, Ben Popham	Sect	ion, Township, Ra	nge:		
Landform (hillslope, te	rrace, etc.):	Depression	Local relief	(concave, convex,	none):	Concave	Slope (%): 1 to 3
Subregion (LRR or MLR	RA): LRR I	र	Lat:	44.0616233874	Long:	-76.0829934109	Datum: WGS84
Soil Map Unit Name:	GvGuffin cl	ау				NWI classifica	ition:
Are climatic/hydrologic	conditions or	the site typical for this time of y	vear?	Yes 🟒 No 🔄	(If no	o, explain in Remarl	<s.)< td=""></s.)<>
Are Vegetation,	Soil,	or Hydrology 🟒 significantly d	listurbed?	Are "Normal (	Circums	tances" present?	Yes No 🟒
Are Vegetation,	Soil,	or Hydrology naturally prob	blematic?	(If needed, ex	plain an	y answers in Rema	rks.)

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

Hydrophytic Vegetation Present?	Yes 🟒 No		
Hydric Soil Present?	Yes 🟒 No	Is the Sampled Area within a Wetland?	Yes 🟒 No _
Wetland Hydrology Present?	Yes 🟒 No	If yes, optional Wetland Site ID:	W-BTF-10
Remarks: (Explain alternative procedures	here or in a separate repo	rt)	
Covertype is PEM. ATV/ORV impacts obse	rved. Ditches/drain tiles ob	served. Circumstances are not normal due to ag	ricultural activities.

Wetland Hydrology Indicators:				
Primary Indicators (minimum of or	ne is required; check all t	Secondary Indicators (minimum of two required)		
Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2)	Water- Aquatio Marl D Hydrog Oxidize	<ul> <li>Surface Soil Cracks (B6)</li> <li>Drainage Patterns (B10)</li> <li>Moss Trim Lines (B16)</li> <li>Dry-Season Water Table (C2)</li> <li>Crayfish Burrows (C8)</li> <li>Saturation Visible on Aerial Imagery (C9)</li> </ul>		
<ul> <li>✓ Drift Deposits (B3)</li> <li>Algal Mat or Crust (B4)</li> <li>Iron Deposits (B5)</li> <li>Inundation Visible on Aerial Im</li> <li>Sparsely Vegetated Concave St</li> </ul>	Presen Recent Thin M agery (B7) Other ( ırface (B8)	ice of Reduced Iron (C4) : Iron Reduction in Tilled : luck Surface (C7) [Explain in Remarks)	Soils (C6)	<ul> <li>Stunted or Stressed Plants (D1)</li> <li>Geomorphic Position (D2)</li> <li>Shallow Aquitard (D3)</li> <li>Microtopographic Relief (D4)</li> <li>FAC-Neutral Test (D5)</li> </ul>
Field Observations:				
Surface Water Present?	Yes No 🟒	Depth (inches):		
Water Table Present?	Yes No 🟒	Depth (inches):	_	Wetland Hydrology Present? Yes No
Saturation Present?	Yes 🟒 No	Depth (inches):	8	
(includes capillary fringe)				-
Describe Recorded Data (stream g	auge, monitoring well, a	erial photos, previous ins	pections), if	available:

Sampling Point: W-BTF-10\_PEM-1

Tree Stratum (Plot size: <u>30 ft</u> )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test wor Number of Dominar	<b>ksheet:</b> nt Species That	3	(A)
1. <i>Ulmus americana</i>	10	Yes	FACW	Are OBL, FACW, or F	AC:		
2				<ul> <li>Across All Strata:</li> <li>Percent of Dominant Species That</li> </ul>		3	(B)
3						100	(4 (5)
4				Are OBL, FACW, or F	AC:	100	(A/B)
6				<ul> <li>Prevalence Index wo</li> </ul>	orksheet:		
7				- <u>Total % Cov</u>	<u>er of:</u>	Multiply E	<u>By:</u>
		- Total Cov	or	- OBL species	90	x 1 =	90
Conling/Chrub Stratum (Dist size) 15 ft )	10	- 10tai COV	EI	FACW species	15	x 2 =	30
<u>Sapiing/Shrub Stratum</u> (Plot Size: <u>15 it</u> )	F	Vac	FAC	FAC species	5	x 3 =	15
1. Frangula allius		res	FAC	- FACU species	0	x 4 =	0
2.				- UPL species	0	x 5 =	0
3.				- Column Totals	110	(A)	135 (B)
4.				- Prevalence	e Index = B/A =	1.2	
5.				Hvdrophytic Vegetat	ion Indicators:		
6				1- Rapid Test fo	or Hydrophytic V	egetation	
7				2 - Dominance	Test is >50%	0	
	5	= Total Cov	er	$\checkmark$ 3 - Prevalence Index is < 3.01			
<u>Herb Stratum</u> (Plot size: <u>5 ft</u> )				4 - Morphologi	cal Adaptations	Provide s	upporting
1. <i>Typha angustifolia</i>	80	Yes	OBL	- data in Remarks or c	on a separate sh	neet)	
2. <i>Scirpus atrovirens</i>	10	No	OBL	Problematic Hy	drophytic Vege	tation <sup>1</sup> (Exp	olain)
3. Anemone canadensis	5	No	FACW	<sup>1</sup> Indicators of hydric	soil and wetlan	d hydrolog	y must be
4				present, unless distu	irbed or problei	matic	
5				Definitions of Vegeta	ation Strata:		
6				Tree – Woody plants	3 in. (7.6 cm) oi	r more in d	liameter at
7				breast height (DBH),	regardless of h	eight.	
8.				Sapling/shrub - Woo	ody plants less t	han 3 in. D	BH and
9.				greater than or equa	al to 3.28 ft (1 m	) tall.	
10.				Herb – All herbaceou	us (non-woody)	plants, reg	ardless of
11.				size, and woody plar	nts less than 3.2	8 ft tall.	
12.				Woody vines – All wo	oody vines great	ter than 3.2	28 ft in
	95	= Total Cov	er	height.			
<u>Woody Vine Stratum</u> (Plot size: <u>30 ft</u> )		-		Hydrophytic Vegeta	tion Present?	/es 🟒 N	0
1.	0						
2.				-			
3.				-			
4				-			
		= Total Cov	er	-			
	0	-	<b>.</b> .	1			

nches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
) - 13	10YR 2/1	90	10YR 5/8	10	C	PL	Silt Loam	
		·						· ·
		·						
		. <u> </u>						
		· <u> </u>						
e: C = C ric Soil	Concentration, D = I	Deplet	ion, RM = Reduce	d Mat	rix, MS =	Masked Sa	nd Grains. <sup>2</sup> L	ocation: PL = Pore Lining, M = Matrix.
listosol	l (A1)		Polyvalue B	elow S	Surface (S	58) (LRR R, N	ILRA 149B)	2 cm Muck (A10) (I RR K   MI RA 149B)
listic Ep	oipedon (A2)		Thin Dark S	urface	(S9) <b>(LRF</b>	R, MLRA 14	49B)	Coast Prairie Redox (A16) (LRR K, L, R)
lack Hi	istic (A3) on Sulfido (A4)		Loamy Muc	ky Mir od Ma	ieral (F1)	(LRR K, L)		5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
tratifie	d Lavers (A5)		Depleted M	atrix (	F3)			Dark Surface (S7) (LRR K, L)
Deplete	d Below Dark Surfa	ce (A1	1)_✓ Redox Dark	Surfa	ce (F6)			Polyvalue Below Surface (S8) (LRR K, L)
hick Da	ark Surface (A12)		Depleted Da	ark Su	rface (F7)	)		Thin Dark Surface (S9) (LRR K, L)
andv N	/lucky Mineral (S1)		Redox Depr	essior	ns (F8)			ITOTI-Manganese Masses (FT2) (LRK N, L, K) Piedmont Eleodolain Soils (E19) (MI PA 149
an ay n								
Sandy G	Gleyed Matrix (S4)							Mesic Spodic (TA6) (MI RA 144A 145 149R)
Sandy G Sandy R	Gleyed Matrix (S4) Redox (S5)							Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Red Parent Material (E21)
Sandy G Sandy R Stripped	Gleyed Matrix (S4) Redox (S5) d Matrix (S6)							Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Red Parent Material (F21) Verv Shallow Dark Surface (TF12)
Sandy G Sandy R Stripped Dark Su	Gleyed Matrix (S4) Redox (S5) d Matrix (S6) ırface (S7) <b>(LRR R, M</b>	ILRA 14	49B)					<ul> <li>Mesic Spodic (TA6) (MLRA 144A, 145, 149B)</li> <li>Red Parent Material (F21)</li> <li>Very Shallow Dark Surface (TF12)</li> <li>Other (Explain in Remarks)</li> </ul>
Sandy G Sandy R Stripped Dark Su icators	Gleyed Matrix (S4) Redox (S5) d Matrix (S6) Irface (S7) <b>(LRR R, M</b> of hydrophytic veg	ILRA 14	<b>49B)</b> and wetland hyd	drolog	y must b	e present, u	nless disturbe	Mesic Spodic (TA6) <b>(MLRA 144A, 145, 149B)</b> Red Parent Material (F21) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) ed or problematic.
Sandy G Sandy R Stripped Dark Su icators rictive I	Gleyed Matrix (S4) Redox (S5) d Matrix (S6) Irface (S7) <b>(LRR R, M</b> <u>of hydrophytic veg</u> <b>Layer (if observed):</b>	ILRA 14	<b>49B)</b> and wetland hyd	Irolog	y must b	e present, u	nless disturbe	Mesic Spodic (TA6) (MLRA 144A, 145, 149B)     Red Parent Material (F21)     Very Shallow Dark Surface (TF12)     Other (Explain in Remarks)
Gandy G Gandy R Garlpped Dark Su <u>cators</u> rictive I	Gleyed Matrix (S4) Redox (S5) d Matrix (S6) Irface (S7) <b>(LRR R, M</b> <u>of hydrophytic veg</u> <b>Layer (if observed):</b> Type:	ILRA 14 etatior	<b>49B)</b> and wetland hyd Bedrock	drolog	y must b	e present, u Hydric Soi	inless disturbe	Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) ed or problematic. Yes No
Gandy G Gandy R Gandy R Oark Su Oark Su Cators rictive I	Gleyed Matrix (S4) Redox (S5) d Matrix (S6) Irface (S7) <b>(LRR R, M</b> of hydrophytic veg Layer (if observed): Type: _Depth (inches):	ILRA 14	<b>49B)</b> and wetland hyd Bedrock 13	drolog	y must bi	e present, u Hydric Soi	nless disturbe	Mesic Spodic (TA6) <b>(MLRA 144A, 145, 149B)</b> Red Parent Material (F21) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) ed or problematic. Yes No
andy G andy R tripped oark Su cators rictive I arks:	Gleyed Matrix (S4) Redox (S5) d Matrix (S6) Irface (S7) <b>(LRR R, M</b> of hydrophytic vege <b>Layer (if observed):</b> Type: Depth (inches):	ILRA 14 etatior	<b>49B)</b> a and wetland hyd Bedrock 13	drolog	y must b	e present, u Hydric Soi	nless disturbe	Mesic Spodic (TA6) <b>(MLRA 144A, 145, 149B)</b> Red Parent Material (F21) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) ed or problematic. Yes No
andy G andy R tripped Dark Su <u>cators</u> rictive I arks:	Gleyed Matrix (S4) Redox (S5) d Matrix (S6) Irface (S7) <b>(LRR R, M</b> of hydrophytic vege <b>Layer (if observed):</b> Type: Depth (inches):	etation	<b>49B)</b> and wetland hyd Bedrock 13	drolog 	y must b	e present, u Hydric Soi	inless disturbe	Mesic Spodic (TA6) <b>(MLRA 144A, 145, 149B)</b> Red Parent Material (F21) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) ed or problematic. Yes No
andy G andy R tripped park Su cators rictive I	Gleyed Matrix (S4) Redox (S5) d Matrix (S6) Irface (S7) <b>(LRR R, M</b> of hydrophytic veg Layer (if observed): Type: Depth (inches):	etation	<b>49B)</b> and wetland hyd Bedrock 13	drolog 	y must b	e present, u Hydric Soi	nless disturbe l Present?	Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) ed or problematic. Yes No
andy G andy R tripped ark Su cators cictive I	Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) <b>(LRR R, M</b> <u>of hydrophytic veg</u> <b>Layer (if observed):</b> Type: Depth (inches):	ILRA 14	<b>49B)</b> and wetland hyd Bedrock 13	irolog	y must b	e present, u Hydric Soi	nless disturbe	Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) ed or problematic. Yes/_ No
andy G andy R tripped bark Su cators rictive I	Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) <b>(LRR R, M</b> <u>of hydrophytic veg</u> <b>Layer (if observed):</b> Type: Depth (inches):	etation	<b>49B)</b> and wetland hyd Bedrock 13	drolog -	y must b	e present, u Hydric Soi	nless disturbe	Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) ed or problematic. Yes No
andy G andy R tripped bark Su cators rictive I	Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) <b>(LRR R, M</b> <u>of hydrophytic veg</u> <b>Layer (if observed):</b> Type: Depth (inches):	iLRA 14	<b>49B)</b> and wetland hyd Bedrock 13	irolog	y must b	e present, u Hydric Soi	nless disturbe	Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) ed or problematic. Yes No
andy G andy R tripped Dark Su cators rictive I	Gleyed Matrix (S4) Redox (S5) d Matrix (S6) Irface (S7) <b>(LRR R, M</b> <u>of hydrophytic veg</u> <b>Layer (if observed):</b> Type: Depth (inches):	ILRA 14	<b>49B)</b> and wetland hyd Bedrock 13	drolog	y must b	e present, u Hydric Soi	Inless disturbe	Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) ed or problematic. Yes No
andy G andy R tripped Dark Su cators rictive I arks:	Gleyed Matrix (S4) Redox (S5) d Matrix (S6) Irface (S7) <b>(LRR R, M</b> of hydrophytic vege <b>Layer (if observed):</b> Type: Depth (inches):	etation	<b>49B)</b> and wetland hyd Bedrock 13	drolog 	y must b	e present, u Hydric Soi	Inless disturbe	Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) ed or problematic. Yes No
andy G andy R tripped Dark Su cators rictive I arks:	Gleyed Matrix (S4) Redox (S5) d Matrix (S6) Irface (S7) <b>(LRR R, M</b> of hydrophytic vege <b>Layer (if observed):</b> Type: Depth (inches):	etation	<b>49B)</b> and wetland hyd Bedrock 13	irolog	y must b	e present, u Hydric Soi	Inless disturbe	Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) ed or problematic. Yes No
andy G andy R tripped park Su <u>cators</u> fictive I	Gleyed Matrix (S4) Redox (S5) d Matrix (S6) Irface (S7) <b>(LRR R, M</b> of hydrophytic vege <b>Layer (if observed):</b> Type: Depth (inches):	etation	<b>49B)</b> and wetland hyd Bedrock 13	- -	y must b	e present, u Hydric Soi	Inless disturbe	Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) ed or problematic. Yes No
andy G andy R tripped Dark Su cators rictive I arks:	Gleyed Matrix (S4) Redox (S5) d Matrix (S6) Irface (S7) <b>(LRR R, M</b> of hydrophytic vege <b>Layer (if observed):</b> Type: Depth (inches):	etation	<b>49B)</b> and wetland hyd Bedrock 13	Irolog	y must b	e present, u Hydric Soi	Inless disturbe	Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) ed or problematic. Yes No
andy G Sandy R Stripped Dark Su cators rictive I arks:	Gleyed Matrix (S4) Redox (S5) d Matrix (S6) Irface (S7) <b>(LRR R, M</b> of hydrophytic vege <b>Layer (if observed):</b> Type: Depth (inches):	etatior	<b>49B)</b> and wetland hyd Bedrock 13	lrolog	y must b	e present, u Hydric Soi	Inless disturbe	Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) ed or problematic. Yes No
Sandy C Sandy R Stripped Dark Su icators rictive I	Gleyed Matrix (S4) Redox (S5) d Matrix (S6) Irface (S7) <b>(LRR R, M</b> of hydrophytic vege <b>Layer (if observed):</b> Type: Depth (inches):	etatior	<b>49B)</b> and wetland hyd Bedrock 13	-	y must bi	e present, u Hydric Soi	Inless disturbe	Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) ed or problematic. Yes No
icators icators rictive l	Sleyed Matrix (S4) Redox (S5) d Matrix (S6) Irface (S7) <b>(LRR R, M</b> of hydrophytic veg Layer (if observed): Type: 	llRA 14	<b>49B)</b> <u>and wetland hyd</u> <u>Bedrock</u> 13	-	y must bi	e present, u Hydric Soi	Inless disturbe	Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) ed or problematic. Yes No
Sandy C Sandy R Stripped Dark Su icators rictive I	Sleyed Matrix (S4) Redox (S5) d Matrix (S6) Irface (S7) <b>(LRR R, M</b> of hydrophytic veg <b>Layer (if observed):</b> Type: Depth (inches):	etation	<b>49B)</b> <u>and wetland hyd</u> <u>Bedrock</u> 13	drolog -	y must b	e present, u Hydric Soi	Inless disturbe	Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) ed or problematic. Yes No
Sandy C Sandy R Stripped Dark Su icators rictive I	Sleyed Matrix (S4) Redox (S5) d Matrix (S6) Irface (S7) <b>(LRR R, M</b> of hydrophytic veg <b>Layer (if observed):</b> Type: 	etation	49B) h and wetland hyd Bedrock 13	drolog -	y must b	e present, u Hydric Soi	I Present?	Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) ed or problematic. YesNo
andy G Sandy R Stripped Dark Su icators rictive I arks:	Sleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) <b>(LRR R, M</b> of hydrophytic veg <b>Layer (if observed):</b> Type: 	etation	49B) h and wetland hyd Bedrock 13	drolog -	y must bi	e present, u Hydric Soi	nless disturbe	Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) ed or problematic. Yes No



Photo of Sample Plot North Photo of Sample Plot West



# WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Riverside Solar	City/County: Chaumont, Jefferson	Sampling Date: 2020-June-05
Applicant/Owner: Geronimo	State: NY	Sampling Point: W-BTF-10_UPL-1
Investigator(s): Brenner Fahrenz, Bridgette Roon	ey, Ben Popham Section, Township, Range:	
Landform (hillslope, terrace, etc.): Terrace	Local relief (concave, convex, none):	Convex Slope (%): 1 to 3
Subregion (LRR or MLRA): LRR R	Lat: 44.0616081614 Long:	-76.0829710273 Datum: WGS84
Soil Map Unit Name: GvGuffin clay		NWI classification:
Are climatic/hydrologic conditions on the site typica	al for this time of year? Yes 🖌 No (If n	o, explain in Remarks.)
Are Vegetation, Soil, or Hydrology _	significantly disturbed? Are "Normal Circums	tances" present? Yes No 🟒
Are Vegetation, Soil, or Hydrology _	naturally problematic? (If needed, explain ar	ny answers in Remarks.)

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

Hydrophytic Vegetation Present?	Yes No 🟒		
Hydric Soil Present?	Yes 🟒 No	Is the Sampled Area within a Wetland?	Yes No 🟒
Wetland Hydrology Present?	Yes No 🟒	lf yes, optional Wetland Site ID:	
Remarks: (Explain alternative procedures her	e or in a separate report)		
Covertype is UPL. Circumstances are not nor	mal due to mowing of veg	etation. Circumstances are not normal due to agricult	ural activities. ATV/ORV
impacts observed.			

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

Sampling Point: W-BTF-10\_UPL-1

Tree Stratum (Plot size: <u>30 ft</u> )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test works	h <b>eet:</b> Species That		
1	0	. <u> </u>		Are OBL, FACW, or FAC	:	0	(A)
2				Total Number of Domi	hant Species	2	(D)
2				Across All Strata:		2	(B)
4.				Percent of Dominant S	pecies That	0	(A/B)
5				- Brevalence Index work	choot:		
6				- Total % Cover	of	Multiply	Bur
7					0	<u>v 1 –</u>	<u> </u>
	0	= Total Cov	ver	= ODE species -	0	× 2 =	0
Sapling/Shrub Stratum (Plot size: <u>15 ft</u> )		-		FACW species	0	x 2 =	0
1.	0			FAC species	15	x 3 =	45
2.				- FACU species -	85	x 4 =	340
				– UPL species –	0	x 5 =	0
				– Column Totals	100	(A)	385 (B)
4				<ul> <li>Prevalence Ir</li> </ul>	ndex = B/A =	3.9	
5.				Hydrophytic Vegetation	n Indicators:		
б				- 1- Rapid Test for H	Hydrophytic V	egetatior	า
7				2 - Dominance Te	st is > 50%	0	
	0	= Total Cov	ver	3 - Prevalence Inc	lex is $\leq 3.0^1$		
<u>Herb Stratum</u> (Plot size: <u>5 ft</u> )				4 - Morphological	Adaptations <sup>1</sup>	(Provide	supporting
1. Trifolium repens	30	Yes	FACU	- data in Remarks or on	a separate sh	eet)	supporting
2. Lotus corniculatus	30	Yes	FACU	Problematic Hvdr	ophytic Vege	tation <sup>1</sup> (E	xplain)
3. <i>Ranunculus acris</i>	15	No	FAC	<sup>1</sup> Indicators of hydric so	il and wetlan	d hvdrold	ev must be
4. <i>Vicia americana</i>	15	No	FACU	present, unless disturb	ed or probler	natic	0,
5. Galium mollugo	10	No	FACU	Definitions of Vegetation	on Strata:		
6.				Tree – Woody plants 3	in. (7.6 cm) or	more in	diameter at
7.				breast height (DBH), re	gardless of h	eight.	
8.				Sapling/shrub - Woody	, plants less tl	han 3 in.	DBH and
9.				greater than or equal t	o 3.28 ft (1 m	) tall.	
10				Herb – All herbaceous	(non-woody)	plants, re	gardless of
11				size, and woody plants	less than 3.2	8 ft tall.	-
12				Woody vines – All wood	dy vines great	er than 3	.28 ft in
·	100	= Total Cov	or	height.			
Woody Vine Stratum (Plot size: 30 ft )	100	_ 10tal C0v		Hydrophytic Vegetatio	n Present?	′es I	No 🖌
1.	0						
2				-			
3				-			
				-			
4	0	= Total Cov	/er	-			
		-					
Remarks: (Include photo numbers here or on a se	parate sheet.)						

Depth	Matrix		Redox	<pre>&lt; Feat</pre>	ures			
inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0 - 10	10YR 3/1	95	10YR 5/8	5	C	М	Silt Loam	
10 - 20	10YR 3/2	70	10YR 5/8	30	С	М	Silty Clay	
				·				
				·				
				·	<u> </u>	<u> </u>		
				·				
				·				
<u> </u>	Concontration D =		on DM - Doduco			Macked C	and Crains 21	esetion DL - Deve Lining M - Metrix
$\frac{\text{pe: } C = C}{\text{dric Soil}}$	Indicators:	Depieti	ion, Rivi = Reduce	a wat	rix, ivis =	Masked S	and Grains. <sup>2</sup> L	Indicators for Problematic Hydric Soils3:
			Polyashuo P		urfaco (S			indicators for Problematic Hydric Solis <sup>3</sup> :
Histic Fr	n (AT) Dinedon (A2)		Thin Dark Si	urface	(S9) (I RF	R MIRA	149B)	2 cm Muck (A10) (LRR K, L, MLRA 149B)
Black Hi	istic (A3)		Loamy Mucl	kv Mir	neral (F1)	(LRR K. L)	1450)	Coast Prairie Redox (A16) (LRR K, L, R)
- Hydroge	en Sulfide (A4)		Loamy Gley	ed Ma	trix (F2)			5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
_ Stratifie	d Layers (A5)		Depleted Ma	atrix (	F3)			Dark Surface (S7) (LRR K, L)
Deplete	d Below Dark Surfa	ace (A1	1) Redox Dark	Surfa	ce (F6)			Polyvalue Below Surface (S8) (LRR K, L)
_ Thick Da	ark Surface (A12)		Depleted Da	ark Su	rface (F7)	)		ITHIT Dark Surface (S9) (LRR K, L)
<b>C</b>	Auglas Minagel (C1)		Redox Depr	essior	ns (F8)			II OII-IVIAIIgaliese IVIAsses (F12) (LKK K, L, K) Diadmont Eloodolain Soils (E10) (MI DA 1408)
_Sandy N	lucky Mineral (ST)							FIEUTION FIOUDIAIN SONS (FIST INLERA 1450)
_ Sandy N _ Sandy G	Gleyed Matrix (S4)							Masic Spadic (TA6) (MI DA 144A 145 149B)
_ Sandy N _ Sandy G _ Sandy R	Gleyed Matrix (S4) Redox (S5)							Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Ped Parent Material (521)
_ Sandy N _ Sandy G _ Sandy R _ Stripped	Gleyed Matrix (S4) Redox (S5) d Matrix (S6)							Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Red Parent Material (F21) Very Shallow Dark Surface (TE12)
_ Sandy N _ Sandy G _ Sandy R _ Strippec _ Dark Su	Gleved Matrix (S4) Gleved Matrix (S4) Redox (S5) d Matrix (S6) Irface (S7) <b>(LRR R, M</b>	1LRA 14	49B)					<ul> <li>Mesic Spodic (TA6) (MLRA 144A, 145, 149B)</li> <li>Red Parent Material (F21)</li> <li>Very Shallow Dark Surface (TF12)</li> <li>Other (Explain in Remarks)</li> </ul>
_Sandy N _Sandy G _Sandy R _Stripped _Dark Su	Gleved Matrix (S4) Redox (S5) d Matrix (S6) Irface (S7) <b>(LRR R, N</b>	1LRA 14	49B)	Irolog	v must h	e present	unless disturbe	Mesic Spodic (TA6) <b>(MLRA 144A, 145, 149B)</b> Red Parent Material (F21) Very Shallow Dark Surface (TF12) Other (Explain in Remarks)
_ Sandy M _ Sandy G _ Sandy R _ Strippec _ Dark Su dicators d	Gleved Matrix (S4) Redox (S5) d Matrix (S6) Irface (S7) <b>(LRR R, M</b> of hydrophytic veg Laver (if observed):	ILRA 14 etation	<b>49B)</b> and wetland hyc	Irolog	y must b	e present,	unless disturbe	Mesic Spodic (TA6) <b>(MLRA 144A, 145, 149B)</b> Red Parent Material (F21) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) d or problematic.
_ Sandy M _ Sandy G _ Sandy R _ Stripped _ Dark Su dicators d strictive L	Gleved Matrix (S4) Redox (S5) d Matrix (S6) Inface (S7) (LRR R, M of hydrophytic veg Layer (if observed): Type:	<b>1LRA 1</b> 4 etation	<b>49B)</b> and wetland hyc	Irolog	y must b	e present,	unless disturbe bil Present?	Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) d or problematic. Yes / No
_Sandy M _Sandy G _Sandy R _Stripped _Dark Su dicators ( strictive L	Gleyed Matrix (S4) Redox (S5) d Matrix (S6) Inface (S7) <b>(LRR R, M</b> of hydrophytic veg Layer (if observed): Type: Depth (inches):	ILRA 14	<b>49B)</b> and wetland hyd None	Irolog	y must b	e present, Hydric Se	unless disturbe bil Present?	Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) d or problematic. Yes No
Sandy M Sandy G Sandy R Stripped Dark Su dicators strictive L	Gleyed Matrix (S4) Gleyed Matrix (S4) Redox (S5) d Matrix (S6) Irface (S7) <b>(LRR R, M</b> of hydrophytic veg Layer (if observed): Type: Depth (inches):	ILRA 14	<b>49B)</b> and wetland hyd None	Irolog	y must b	e present, Hydric Se	unless disturbe bil Present?	Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) d or problematic. Yes No
Sandy M Sandy G Sandy R Stripped Dark Su dicators d trictive I narks:	Gleyed Matrix (S4) Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) <b>(LRR R, M</b> of hydrophytic veg Layer (if observed): Type: Depth (inches):	ILRA 14	<b>49B)</b> and wetland hyd None	Irolog	y must b	e present, Hydric So	unless disturbe bil Present?	Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) d or problematic. Yes <u>/ No</u>
Sandy M Sandy G Sandy R Stripped Dark Su dicators d trictive I narks:	Gleyed Matrix (S4) Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) <b>(LRR R, M</b> of hydrophytic veg Layer (if observed): Type: Depth (inches):	ILRA 14 etation	<b>49B)</b> and wetland hyd None	Irolog	y must b	e present, Hydric So	unless disturbe bil Present?	Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) d or problematic. Yes <u>V</u> No
Sandy M Sandy G Sandy R Stripped Dark Su dicators d strictive I marks:	Gleyed Matrix (S4) Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) <b>(LRR R, N</b> <u>of hydrophytic veg</u> Layer (if observed): Type: Depth (inches):	ILRA 14 etation	<b>49B)</b> and wetland hyd None	Irolog	y must b	e present, Hydric So	unless disturbe bil Present?	Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) d or problematic. Yes No
Sandy M Sandy C Sandy R Strippec Dark Su dicators d trictive I	Gleyed Matrix (S4) Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) <b>(LRR R, N</b> <u>of hydrophytic veg</u> Layer (if observed): Type: Depth (inches):	ILRA 14 etation	<b>49B)</b> and wetland hyd None	Irolog	y must b	e present, Hydric Si	unless disturbe bil Present?	Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) d or problematic. Yes No
Sandy N Sandy C Sandy R Strippec Dark Su dicators d trictive I	Gleyed Matrix (S4) Sleyed Matrix (S4) Redox (S5) d Matrix (S6) Irface (S7) <b>(LRR R, N</b> of hydrophytic veg Layer (if observed): Type: Depth (inches):	ILRA 14 etation	<b>49B)</b> and wetland hyd None	Irolog	y must b	e present, Hydric Si	unless disturbe bil Present?	Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) d or problematic. Yes No
Sandy M Sandy C Sandy R Strippec Dark Su dicators d strictive I	Gleved Matrix (S4) Sleyed Matrix (S4) Redox (S5) d Matrix (S6) Irface (S7) <b>(LRR R, M</b> <u>of hydrophytic veg</u> Layer (if observed): Type: 	ILRA 14 etation	<b>49B)</b> and wetland hyd None	lrolog	y must b	e present, Hydric Si	unless disturbe bil Present?	Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) d or problematic. Yes No
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Sandy M Sandy C Sandy R Strippec Dark Su dicators d trictive L	Sleyed Matrix (S4) Sleyed Matrix (S4) Redox (S5) d Matrix (S6) Irface (S7) <b>(LRR R, M</b> of hydrophytic veg Layer (if observed): Type: 	ILRA 14 etation	<b>49B)</b> and wetland hyd None	irolog	y must b	e present, Hydric So	unless disturbe bil Present?	Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) d or problematic. Yes No
Sandy M Sandy C Sandy R Strippec Dark Su dicators of strictive L marks:	Gleved Matrix (S4) Sleyed Matrix (S4) Redox (S5) d Matrix (S6) Irface (S7) <b>(LRR R, M</b> of hydrophytic veg Layer (if observed): Type: Depth (inches):	ILRA 14 etation	<b>49B)</b> and wetland hyd None	Irolog	y must b	e present, Hydric S	unless disturbe pil Present?	Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) d or problematic. Yes No
Sandy M Sandy C Sandy R Strippec Dark Su dicators of strictive L marks:	Gleyed Matrix (S4) Sleyed Matrix (S4) Redox (S5) d Matrix (S6) Inface (S7) <b>(LRR R, M</b> of hydrophytic veg Layer (if observed): Type: 	ILRA 14	<b>49B)</b> and wetland hyd None	Irolog	y must b	e present, Hydric S	unless disturbe bil Present?	Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) d or problematic. Yes No
Sandy M Sandy C Sandy R Strippec Dark Su dicators d strictive I	Gleyed Matrix (S4) Gleyed Matrix (S4) Redox (S5) d Matrix (S6) of hydrophytic veg Layer (if observed): Type: Depth (inches):	ILRA 14	<b>49B)</b> and wetland hyd None	Irolog	y must b	e present, Hydric S	unless disturbe bil Present?	Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) d or problematic. Yes No
Sandy M Sandy C Sandy R Strippec Dark Su dicators d strictive I	Gleyed Matrix (S4) Gleyed Matrix (S4) Redox (S5) d Matrix (S6) Inface (S7) <b>(LRR R, M</b> of hydrophytic veg Layer (if observed): Type: 	ILRA 14	<b>49B)</b> n and wetland hyd None	lrolog	y must b	e present, Hydric So	unless disturbe bil Present?	Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) d or problematic. Yes/_ No
_ Sandy M _ Sandy C _ Sandy R _ Strippec _ Dark Su dicators d strictive I	Gleyed Matrix (S4) Gleyed Matrix (S4) Redox (S5) d Matrix (S6) Inface (S7) <b>(LRR R, M</b> <u>of hydrophytic veg</u> Layer (if observed): Type: Depth (inches):	ILRA 14	<b>49B)</b> n and wetland hyd None	lrolog	y must b	e present, Hydric So	unless disturbe bil Present?	Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) d or problematic. Yes No
_ Sandy M _ Sandy C _ Sandy R _ Strippec _ Dark Su dicators - strictive I	Gleyed Matrix (S4) Gleyed Matrix (S4) Redox (S5) d Matrix (S6) Irface (S7) <b>(LRR R, M</b> <u>of hydrophytic veg</u> Layer (if observed): Type: Depth (inches):	ILRA 14	<b>49B)</b> n and wetland hyd None	irolog	y must b	e present, Hydric So	unless disturbe bil Present?	Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) d or problematic. 
_ Sandy M _ Sandy C _ Sandy R _ Strippec _ Dark Su dicators strictive I marks:	Gleyed Matrix (S4) Gleyed Matrix (S4) Redox (S5) d Matrix (S6) Irface (S7) <b>(LRR R, M</b> of hydrophytic veg Layer (if observed): Type: Depth (inches):	ILRA 14	<b>49B)</b> None	irolog	y must b	e present, Hydric So	unless disturbe bil Present?	Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) d or problematic. Yes _/_ No
_ Sandy M _ Sandy C _ Sandy R _ Strippec _ Dark Su dicators strictive I	Gleyed Matrix (S4) Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) <b>(LRR R, M</b> of hydrophytic veg <b>Layer (if observed):</b> Type: Depth (inches):	ILRA 14	49B) n and wetland hyd None	irolog	y must b	e present, Hydric Si	unless disturbe bil Present?	Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) d or problematic. Yes _/_ No
_ Sandy M _ Sandy C _ Sandy R _ Strippec _ Dark Su dicators strictive I marks:	Gleyed Matrix (S4) Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) <b>(LRR R, M</b> <u>of hydrophytic veg</u> <b>Layer (if observed):</b> Type: Depth (inches):	ILRA 14	49B) and wetland hyd None	irolog	y must b	e present, Hydric S	<u>unless disturbe</u> bil Present?	Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) d or problematic. Yes _/_ No
_Sandy M _Sandy C _Sandy R _Strippec _Dark Su dicators strictive I marks:	Gleyed Matrix (S4) Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) <b>(LRR R, M</b> <u>of hydrophytic veg</u> <b>Layer (if observed):</b> Type: Depth (inches):	ILRA 14	49B) n and wetland hyd None	irolog	y must b	e present, Hydric S	<u>unless disturbe</u> bil Present?	Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) d or problematic. Yes No



Photo of Sample Plot North



Photo of Sample Plot South

# WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Riverside Solar	City/County: Chaumont, Jefferson	Sampling Date: 2020-June-05
Applicant/Owner: Geronimo	State: NY	Sampling Point: W-BTF-11_PEM-1
Investigator(s): Brenner Fahrenz, Bridgette Roor	ey, Ben Popham Section, Township, Range:	
Landform (hillslope, terrace, etc.): Depression	Local relief (concave, convex, none):	Concave Slope (%): 1 to 3
Subregion (LRR or MLRA): LRR R	Lat: 44.0510992052 Long:	-76.1183389176 Datum: WGS84
Soil Map Unit Name: CIAChaumont silty clay, 0	to 3 percent slopes	NWI classification:
Are climatic/hydrologic conditions on the site typic	al for this time of year? Yes 🖌 No (If no	ა, explain in Remarks.)
Are Vegetation, Soil, or Hydrology	✓ significantly disturbed? Are "Normal Circums	tances" present? Yes No 🟒
Are Vegetation, Soil, or Hydrology	naturally problematic? (If needed, explain ar	ıy answers in Remarks.)

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

Hydrophytic Vegetation Present?	Yes No 🟒								
Hydric Soil Present?	Yes 🟒 No	Is the Sampled Area within a Wetland?	Yes 🯒 No						
Wetland Hydrology Present?	Yes 🟒 No	lf yes, optional Wetland Site ID:	W-BTF-11						
Remarks: (Explain alternative procedures he	re or in a separate report	)							
Covertype is PEM. ATV/ORV impacts observe	d. Circumstances are not	normal due to agricultural activities. Circumstances a	re not normal due to						
mowing of vegetation. Wetland is part of an active cornfield.									

Wetland Hydrology Indicators:					
Primary Indicators (minimum of	one is required; check all	Secondary Indicators (minimum of two required)			
<ul> <li>Surface Water (A1)</li> <li>High Water Table (A2)</li> <li>Saturation (A3)</li> <li>Water Marks (B1)</li> <li>Sediment Deposits (B2)</li> </ul>	Water Aquat Marl [ Hydro ∕ Oxidiz	-Stained Leaves (B9) ic Fauna (B13) Deposits (B15) gen Sulfide Odor (C1) ted Rhizospheres on Living Roots (C3)	<ul> <li> Surface Soil Cracks (B6)</li> <li> Drainage Patterns (B10)</li> <li> Moss Trim Lines (B16)</li> <li> Dry-Season Water Table (C2)</li> <li> Crayfish Burrows (C8)</li> <li> Saturation Visible on Aerial Imagery (C9)</li> </ul>		
<ul> <li>Drift Deposits (B3)</li> <li>Algal Mat or Crust (B4)</li> <li>Iron Deposits (B5)</li> <li>Inundation Visible on Aerial</li> <li>Sparsely Vegetated Concave</li> </ul>	Preser _✓ Recen Thin M Imagery (B7) Other Surface (B8)	<ul> <li>Stunted or Stressed Plants (D1)</li> <li>Geomorphic Position (D2)</li> <li>Shallow Aquitard (D3)</li> <li>Microtopographic Relief (D4)</li> <li>FAC-Neutral Test (D5)</li> </ul>			
Field Observations:					
Surface Water Present?	Yes No 🟒	Depth (inches):			
Water Table Present?	Yes No 🟒	Depth (inches):	Wetland Hydrology Present? Yes 🟒 No		
Saturation Present?	Yes No 🟒	Depth (inches):	_		
(includes capillary fringe)			_		
Describe Recorded Data (stream	ו gauge, monitoring well, a 	aerial photos, previous inspections), i	f available:		

Sampling Point: W-BTF-11\_PEM-1

<u>Tree Stratum</u> (Plot size: <u>30 ft</u> )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test work Number of Dominant	<b>sheet:</b> Species That	0	(4)
1.	0			Are OBL, FACW, or FA	C:		(A)
2.				Total Number of Dom	inant Species	1	(B)
3.				Across All Strata:			(5)
4.				Percent of Dominant	Species That	0	(A/B)
5				- Brovalance Index wor	c. kshoot:		
6				Total % Cove	r of	Multiply	Bur
7				OBL species	<u>5</u>	v 1 =	<u> </u>
	0	= Total Cov	ver	EACW species		× 2 -	10
<u>Sapling/Shrub Stratum</u> (Plot size: <u>15 ft</u> )		_		FAC species	10	×2-	20
1.	0			EACLI species		x 3 - x 4 -	50
2.						х4- 	250
3.				- OPL species		x 5 =	250
4.					85	(A)	325 (B)
5.				Prevalence	Index = B/A =	<u>3.8</u>	
6.				<ul> <li>Hydrophytic Vegetation</li> </ul>	on Indicators:		
7.				1- Rapid Test for	Hydrophytic V	/egetatior	ו
	0	= Total Cov	ver	–2 - Dominance T	est is > 50%		
Herb Stratum (Plot size: 5 ft )		_		3 - Prevalence In	idex is $\leq 3.0^1$		
1. Zea mays	50	Yes	UPL	4 - Morphologica	al Adaptations	۱ (Provide	supporting
2. Cvperus esculentus	15	No	FACW	- data in Remarks or or	i a separate sr	ieet)	
3. Barbarea vulgaris	5	No	FAC	Problematic Hyd	ropnytic vege	tation' (E	xpiain)
4. Juncus effusus	5	No	OBL	- Indicators of hydric s	oll and wetlan	a nyaroic matic	igy must be
5 Agrostis capillaris	5	No	FAC	Definitions of Vegetat	ion Strata:	matic	
6 Phalaris arundinacea	5	No	FACW	_ Definitions of vegetat	ion (7.6 cm) or	r moro in	diameter at
7			- men	_ hreast height (DBH) r	egardless of h	eight	ulameter at
8				- Sanling/shruh - Wood	ly plants less t	han 3 in 1	DBH and
Q				greater than or equal	to 3.28 ft (1 m	) tall.	Derrand
10		<u> </u>		Herb – All herbaceous	s (non-woodv)	plants, re	gardless of
11		<u> </u>		size, and woody plant	s less than 3.2	8 ft tall.	0
10				- Woody vines - All woo	ody vines great	ter than 3	.28 ft in
12		- Total Car		height.			
March Mine Church we (Distribute 20 ft )		- 10tal Cov	er	Hydrophytic Vegetati	on Present?	res l	No 🖌
<u>woody vine stratum</u> (Plot size: <u>30 it</u> )	0			J			·
۱	0	<u> </u>		-			
2				-			
۶				-			
4				-			
	0	= Total Cov	/er				

Depin	Cription: (Describe)	to the o	depth needed to	docun	nent the	indicator or	confirm the al	osence of indicators.)
(inchos)	Color (moist)	04	Color (moist)	« Feau	Typo1	1002	Toxturo	Bomarka
(incries)				<u> </u>	<u>Type</u>		Cilt Loom	Remarks
0-0	10YR 2/1	90	1018 5/6	- 10		PL		
0-18	TUYR 3/T	/5	1018 5/8	28			Clay	
						<u> </u>		
						· ·		
Type: C = C	Concentration, D =	Deplet	ion, RM = Reduce	d Mat	rix, MS =	Masked Sa	nd Grains. <sup>2</sup> Lo	ocation: PL = Pore Lining, M = Matrix.
Hydric Soil I	Indicators:							Indicators for Problematic Hydric Soils <sup>3</sup> :
Histosol	(A1)		Polyvalue B	elow S	Surface (S	58) <b>(LRR R, N</b>	ILRA 149B)	2 cm Muck (A10) (LRR K, L, MLRA 149B)
Histic Ep	pipedon (A2)		Thin Dark S	urface	(S9) (LRF	R R, MLRA 1	49B)	Coast Prairie Redox (A16) (LRR K, L, R)
Black His	stic (A3)		Loamy Muc	ky Mir	ieral (F1)	(LRR K, L)		5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
Hyuroge	d Lavors (AE)		Loarny Gley	eu Ma atriv (	E2)			Dark Surface (S7) (LRR K, L)
Denleter	d Below Dark Surfa	ace (A1	1) Z Redox Dark	Surfa	гэ) се (F6)			Polyvalue Below Surface (S8) (LRR K, L)
Thick Da	ark Surface (A12)		Depleted Da	ark Su	rface (F7	)		Thin Dark Surface (S9) <b>(LRR K, L)</b>
Sandy M	lucky Mineral (S1)		✓ Redox Depr	essior	ns (F8)	,		Iron-Manganese Masses (F12) (LRR K, L, R)
Sandy G	leved Matrix (S4)							Piedmont Floodplain Soils (F19) (MLRA 149B)
Sandy R	edox (S5)							Mesic Spodic (TA6) <b>(MLRA 144A, 145, 149B)</b>
Stripped	d Matrix (S6)							Red Parent Material (F21)
	rface (S7) (I DD D N	ILRA 14	49B)					Very Shallow Dark Surface (TF12)
Dark Su	11ace (37) (LKK K, IV							
Dark Su								
Dark Sur	of hydrophytic veg	etatior	and wetland hyc	lrolog	y must b	e present, ι	inless disturbe	d or problematic.
Dark Sur Indicators o Restrictive L	of hydrophytic veg Layer (if observed):	etatior	and wetland hyd	lrolog	y must b	e present, u	Inless disturbe	d or problematic.
Dark Sur Indicators o Restrictive L	of hydrophytic veg Layer (if observed): Type:	etatior	and wetland hyd Bedrock	lrolog	y must b	Hydric So	inless disturbe I Present?	d or problematic. Yes _∠_ No
Dark Sur	of hydrophytic veg Layer (if observed): Type: Depth (inches):	etatior	a and wetland hyd Bedrock 18	drolog	y must b	Hydric So	Inless disturbe	d or problematic. Yes _∠_ No
Dark Sui Pindicators of Restrictive L  Remarks:	of hydrophytic veg Layer (if observed): Type: Depth (inches):	etatior	and wetland hyd Bedrock 18	lrolog	y must b	Hydric So	inless disturbe	d or problematic. Yes _∠_No
Dark Sui Pindicators of Restrictive L Remarks: Observed so	of hydrophytic veg Layer (if observed): Type: Depth (inches): oil compaction was	etatior	and wetland hyd Bedrock 18 o agricultural acti	vities.	y must b	Hydric So	I Present?	d or problematic. Yes _✓_ No ult of tilling.
Dark Sui Indicators of Restrictive L Remarks: Observed so	of hydrophytic veg Layer (if observed): Type: Depth (inches): oil compaction was	etatior	and wetland hyd Bedrock 18 o agricultural acti	vities.	y must b Soil sign	Hydric So	I Present?	d or problematic. Yes _✓_ No ult of tilling.
Dark Sui Indicators of Restrictive L Remarks: Dbserved so	of hydrophytic veg Layer (if observed): Type: Depth (inches): oil compaction was	etation	and wetland hyd Bedrock 18 o agricultural acti	vities.	y must b	e present, u	Inless disturbe	d or problematic. Yes _✓_ No ult of tilling.
Dark Sui Indicators of Restrictive L Remarks: Observed so	of hydrophytic veg Layer (if observed): Type: Depth (inches): oil compaction was	etation	and wetland hyd Bedrock 18 o agricultural acti	vities.	y must b	e present, u	Inless disturbe	d or problematic. Yes _✓_ No ult of tilling.
Dark Sui Indicators of Restrictive L Remarks: Dbserved so	of hydrophytic veg Layer (if observed): Type: Depth (inches): oil compaction was	etation	n and wetland hyd Bedrock 18 o agricultural acti	vities.	y must b	e present, u	Inless disturbe	d or problematic. Yes _✓_ No ult of tilling.
Dark Sui Indicators of Restrictive L Remarks: Observed so	of hydrophytic veg Layer (if observed): Type: Depth (inches): oil compaction was	etation	n and wetland hyd Bedrock 18 o agricultural acti	vities.	y must b	e present, u	Inless disturbe	d or problematic. Yes _✓_ No ult of tilling.
Dark Sui Pindicators of Restrictive L Remarks: Observed so	of hydrophytic veg Layer (if observed): Type: Depth (inches): oil compaction was	etatior	and wetland hyd Bedrock 18 o agricultural acti	vities.	y must b	e present, u	I Present?	d or problematic. Yes _∠_ No ult of tilling.
Dark Sui Pindicators of Restrictive L Remarks: Observed so	of hydrophytic veg Layer (if observed): Type: Depth (inches): oil compaction was	etatior	n and wetland hyd Bedrock 18 o agricultural acti	vities.	y must b	ificantly dis	I Present?	d or problematic. Yes _∠_ No ult of tilling.
Dark Sui Pindicators of Restrictive L Remarks: Observed so	of hydrophytic veg Layer (if observed): Type: Depth (inches): oil compaction was	etation	and wetland hyd Bedrock 18 o agricultural acti	vities.	y must b	e present, u	I Present?	d or problematic. Yes _∠_ No ult of tilling.
Dark Sui Pindicators of Restrictive L Remarks: Observed so	of hydrophytic veg Layer (if observed): Type: Depth (inches): oil compaction was	etation	and wetland hyd Bedrock 18 o agricultural acti	Irolog	y must b	ificantly dis	I Present?	<u>Yes</u> _ <u>∕</u> No ult of tilling.
Dark Sui Pindicators of Restrictive L Remarks: Observed so	of hydrophytic veg Layer (if observed): Type: Depth (inches): oil compaction was	etation	and wetland hyd Bedrock 18 o agricultural acti	- - vities.	<u>y must b</u> Soil sign	ificantly dis	I Present? turbed as a res	<u>Yes _∠_ No</u> ult of tilling.
Dark Sui PIndicators of Restrictive L Remarks: Observed so	of hydrophytic veg Layer (if observed): Type: Depth (inches): oil compaction was	etation	and wetland hyd Bedrock 18 o agricultural acti		y must b	ificantly dis	I Present? turbed as a res	<u>Yes _∠_ No</u> ult of tilling.
Dark Sui alndicators of Restrictive L Remarks: Observed so	of hydrophytic veg Layer (if observed): Type: Depth (inches): oil compaction was	etation	and wetland hyd Bedrock 18 o agricultural acti	vities.	y must b	ificantly dis	I Present? turbed as a res	<u>Yes</u> No ult of tilling.
Dark Sui Restrictive L 	of hydrophytic veg Layer (if observed): Type: Depth (inches): oil compaction was	etation	and wetland hyd Bedrock 18 o agricultural acti		y must b	ificantly dis	I Present? turbed as a res	<u>Yes</u> No ult of tilling.
Dark Sui Restrictive L  Remarks: Observed so	of hydrophytic veg Layer (if observed): Type: Depth (inches): oil compaction was	etatior	and wetland hyd Bedrock 18 o agricultural acti	vities.	y must b	ificantly dis	I Present? turbed as a res	<u>Yes</u> No ult of tilling.
Dark Sui Pindicators of Restrictive L Remarks: Observed So	of hydrophytic veg Layer (if observed): Type: Depth (inches): oil compaction was	etatior	and wetland hyd Bedrock 18 o agricultural acti	vities.	y must b	ificantly dis	I Present? turbed as a res	<u>Yes</u> No ult of tilling.
Dark Sui <u>Indicators of</u> Restrictive L Remarks: Dbserved so	of hydrophytic veg Layer (if observed): Type: Depth (inches): oil compaction was	etatior	and wetland hyd Bedrock 18 o agricultural acti	vities.	y must b	ificantly dis	I Present? turbed as a res	<u>Yes</u> _ <u>√</u> No ult of tilling.
Dark Sui <u>Indicators of</u> Restrictive L Remarks: Observed so	of hydrophytic veg Layer (if observed): Type: Depth (inches): oil compaction was	etatior	<u>Bedrock</u> 18 o agricultural acti	lrolog	Soil sign	e present, u	I Present? turbed as a res	<u>Yes</u> _ <u>√</u> No ult of tilling.

Vegetation Photos





Photo of Sample Plot East Photo of Sample Plot West



# WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Riverside Solar			<b>y/County:</b> Chau	umont, Jeffe	rson	Sampling Date: 2020-June-05		
Applicant/Owner: G	vpplicant/Owner: Geronimo				State: NY		Sampling Point:	W-BTF-11_PSS-1
Investigator(s): Bren	Bridgette Rooney, B	Ben Popham	Sect	ion, Township, Ra	nge:			
Landform (hillslope, te	rrace, etc.):	Depression		Local relief	(concave, convex,	, none):	Concave	Slope (%): 1 to 3
Subregion (LRR or MLF	RA): LRR F	R		Lat:	44.0520261145	Long:	-76.1187158506	Datum: WGS84
Soil Map Unit Name:	KgAKingsbu	ry silty clay, 0 to 2	percent slopes				NWI classific	cation:
Are climatic/hydrologic	c conditions or	the site typical for	r this time of yea	ar?	Yes 🟒 No _	(If no	o, explain in Rema	rks.)
Are Vegetation,	Soil 🟒,	or Hydrology	significantly dis	turbed?	Are "Normal (	Circums	tances" present?	Yes No 🟒
Are Vegetation,	Soil,	or Hydrology	naturally proble	ematic?	(If needed, ex	plain an	y answers in Rem	arks.)

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

Hydrophytic Vegetation Present?	Yes 🟒 No		
Hydric Soil Present?	Yes 🟒 No	Is the Sampled Area within a Wetland?	Yes 🯒 No _
Wetland Hydrology Present?	Yes 🟒 No	If yes, optional Wetland Site ID:	W-BTF-11
Remarks: (Explain alternative procedu	es here or in a separate rep	port)	
Covertype is PSS. ATV/ORV impacts ob	served.		

Wetland Hydrology Indicators:			
Primary Indicators (minimum of one is	Secondary Indicators (minimum	of two required)	
Surface Water (A1) High Water Table (A2) _⁄ Saturation (A3) Water Marks (B1) Sediment Deposits (B2)	<ul> <li> Water-Stained Leaves (B9)</li> <li> Aquatic Fauna (B13)</li> <li> Marl Deposits (B15)</li> <li> Hydrogen Sulfide Odor (C1</li> <li> Oxidized Rhizospheres on</li> </ul>	<ul> <li>Surface Soil Cracks (B6)</li> <li>Drainage Patterns (B10)</li> <li>Moss Trim Lines (B16)</li> <li>Dry-Season Water Table (C2)</li> <li>Living Roots (C3)</li> <li>Saturation Visible on Aerial In</li> </ul>	nagery (C9)
<ul> <li>Drift Deposits (B3)</li> <li>Algal Mat or Crust (B4)</li> <li>Iron Deposits (B5)</li> <li>Inundation Visible on Aerial Imager</li> <li>Sparsely Vegetated Concave Surfac</li> </ul>	(C4) Stunted or Stressed Plants (D iilled Soils (C6) Geomorphic Position (D2) Shallow Aquitard (D3) ) Microtopographic Relief (D4) FAC-Neutral Test (D5)	1)	
Field Observations:			
Surface Water Present? Yes	No 🟒 Depth (inches):		
Water Table Present? Yes	No 🟒 Depth (inches):	Wetland Hydrology Present?	Yes 🟒 No
Saturation Present? Yes	_✔_ No Depth (inches):	8	
(includes capillary fringe)			
Describe Recorded Data (stream gauge Remarks:	monitoring well, aerial photos, previou	us inspections), if available:	

Sampling Point: W-BTF-11\_PSS-1

Tree Stratum (Plot size: <u>30 ft</u> )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species Tha	t 4	(A)
1	0			Are OBL, FACW, or FAC:		
2				Total Number of Dominant Specie	<sup>s</sup> 4	(B)
3				Percent of Dominant Species That		
4.				- Are OBL, FACW, or FAC:	100	(A/B)
5.		<u> </u>		Prevalence Index worksheet:		
6				- <u>Total % Cover of:</u>	<u>Multiply</u>	<u>By:</u>
7		<u> </u>		- OBL species 17	x 1 =	17
	0	= Total Cov	er	FACW species 80	x 2 =	160
<u>Sapling/Shrub Stratum</u> (Plot size: <u>15 ft</u> )				FAC species 28	x 3 =	84
1. <i>Spiraea tomentosa</i>	40	Yes	FACW	- FACU species 10		40
2. Cornus racemosa	28	Yes	FAC	- UPL species 0	- x 5 =	0
3. <i>Lonicera japonica</i>	10	No	FACU	- Column Totals 135	(A)	301 (B)
4				- Prevalence Index = B/A		301 (8)
5.						
6.				Hydrophytic Vegetation Indicators		
7.				1- Rapid Test for Hydrophyti	c Vegetation	1
		= Total Cov	er	- 2 - Dominance Test is >50%		
Herb Stratum (Plot size: 5 ft )		_		$\checkmark$ 3 - Prevalence Index is $\leq$ 3.0	1	
1. Carex scoparia	40	Yes	FACW	4 - Morphological Adaptation	ns <sup>1</sup> (Provide	supporting
2. Angelica atropurpurea	12	Yes	OBL	- data in Remarks or on a separate	sheet)	
3 Juncus effusus	5	No	OBL	- Problematic Hydrophytic Ve	getation <sup>1</sup> (Ex	kplain)
4			ODL	- Indicators of hydric soil and wetla	and hydrolo	gy must be
5		·		present, unless disturbed or prob	lematic	
۶				_ Definitions of vegetation Strata:		
7				_ Iree – Woody plants 3 in. (7.6 cm)	or more in	diameter at
7				Capling (christen Weadly plants land	neigni.	
8		·		greater than or equal to 3.28 ft (1	m) tall.	JBH and
10		·		Herb – All herbaceous (non-wood	v) plants, re	gardless of
10				size, and woody plants less than 3	.28 ft tall.	Baraicos or
11				Woody vines – All woody vines gr	eater than 3	.28 ft in
12				height.		
Woody Vine Stratum (Plot size: 30 ft )	57	= lotal Cov	er	Hydrophytic Vegetation Present?	Yes 🟒 N	No
1. Carex scoparia	0	No	FACW			
2. Angelica atropurpurea	0	No	OBL	-		
3. Juncus effusus	0	No	OBL	-		
4.				-		
	0	= Total Cov	er	-		
Remarks: (Include photo numbers here or on a con	arate sheet )	-				

Profile Desc	cription: (Describe t	o the	depth needed to o	docun	nent the	indicato	r or confirm the a	bsence of indicators.)
			Redox	Feat	ures		<b>-</b> .	
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Туре	LOC <sup>2</sup>	lexture	Remarks
0 - 10	10YR 2/1	90	10YR 5/8	10	<u> </u>	PL	Silt Loam	
10 - 17	10YR 3/1	70	10YR 4/6	30	C	Μ	Clay	
		·						
		·						
		·						
		·						
1Turn et C - C		. <u> </u>				Maalia	Canal Cusing 21	ention DI - Deve Lining M - Metrix
$\frac{1}{1}$	D = 1	Jepiet	100, RW = Reduce	u iviat	rix, ivis =	Maskec	i Sand Grains. <sup>2</sup> L	boation: PL = Pore Lining, M = Matrix.
Hydric Soil I	Indicators:							Indicators for Problematic Hydric Soils <sup>3</sup> :
Histosol	(A1)		Polyvalue Be	elow S	Surface (S	58) (LRR	R, MLRA 149B)	2 cm Muck (A10) (LRR K, L, MLRA 149B)
Histic Ep	oipedon (A2)		Thin Dark St	irface	(S9) (LRF		(A 149B)	Coast Prairie Redox (A16) (LRR K, L, R)
Black HI	SUC (A3)				ieral (FT)	(LKK K,	L)	5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
Hyuroge	d Lavors (AE)		Loanty Gleye	eu ivie				Dark Surface (S7) (LRR K, L)
	d Balow Dark Surfa	دم (۵۱	1) / Peday Dark	Surfa	гэ) са (E6)			Polyvalue Below Surface (S8) (LRR K, L)
Depieter	ark Surface (A12)		Depleted Da	irk Su	rface (F7	)		Thin Dark Surface (S9) <b>(LRR K, L)</b>
Sandy M	lucky Mineral (S1)		Bedox Depr	essior	nace (F8)	,		Iron-Manganese Masses (F12) <b>(LRR K, L, R)</b>
Sandy G	leved Matrix (SA)			235101	15 (10)			Piedmont Floodplain Soils (F19) (MLRA 149B)
Sandy C	adox (S5)							Mesic Spodic (TA6) <b>(MLRA 144A, 145, 149B)</b>
Sanuy K	Matrix (CC)							Red Parent Material (F21)
Stripped			400)					Very Shallow Dark Surface (TF12)
Dark Su	nace (S7) (LRR R, N	ILKA I	49B)					Other (Explain in Remarks)
<sup>3</sup> Indicators	of hydrophytic veg	etatior	n and wetland hyd	Irolog	y must b	e presei	nt, unless disturbe	d or problematic.
Restrictive L	_ayer (if observed):							
	Туре:		Hard clay			Hydric	Soil Present?	Yes 🟒 No
	Depth (inches):		17					
Remarks:								
Soil Photos



Photo of Sample Plot North Photo of Sample Plot West



Project/Site: Riverside Solar			y/County: Chaumont,	Jefferson	Sampling Date: 2020-June-05			
Applicant/Owner:	pplicant/Owner: Geronimo				/	Sampling Point: W-BTF-11_UPL-1		
Investigator(s): Bren	nner Fahrenz,	Bridgette Rooney, B	en Popham	Section, Township	, Range:			
Landform (hillslope, te	errace, etc.):	Terrace	Local r	elief (concave, con	vex, none):	Convex	Slope (%): 2 to 5	
Subregion (LRR or MLI	RA): LRR	R		Lat: 44.05202512	23 Long:	-76.1187240183	Datum: WGS84	
Soil Map Unit Name:	VeBVerger	nes silty clay loam,	3 to 8 percent slopes			NWI classific	ation:	
Are climatic/hydrologi	c conditions o	n the site typical for	this time of year?	Yes 🟒 N	o (lf n	o, explain in Remai	rks.)	
Are Vegetation,	Soil,	or Hydrology	significantly disturbed	? Are "Norn	nal Circums	tances" present?	Yes No 🟒	
Are Vegetation,	Soil,	or Hydrology	naturally problematic?	? (If needed	l, explain ar	ny answers in Rema	arks.)	

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

Hydrophytic Vegetation Present?	Yes No 🟒		
Hydric Soil Present?	Yes No 🟒	Is the Sampled Area within a Wetland?	Yes No 🟒
Wetland Hydrology Present?	Yes No 🟒	If yes, optional Wetland Site ID:	
Remarks: (Explain alternative procedures here	e or in a separate report		
Covertype is UPL. Circumstances are not norr	nal due to agricultural ad	tivities. ATV/ORV impacts observed.	

### HYDROLOGY

Wetland Hydrology Indicators:				
Primary Indicators (minimum of o	ne is required; check all	<u>that apply)</u>	Secondary Indicators (minimum	of two required)
Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2)	Water- Aquati Marl D Hydro Oxidiz	-Stained Leaves (B9) ic Fauna (B13) Deposits (B15) gen Sulfide Odor (C1) ed Rhizospheres on Living Roots (C3)	<ul> <li>Surface Soil Cracks (B6)</li> <li>Drainage Patterns (B10)</li> <li>Moss Trim Lines (B16)</li> <li>Dry-Season Water Table (C2)</li> <li>Crayfish Burrows (C8)</li> <li>Saturation Visible on Aerial Ir</li> </ul>	nagery (C9)
<ul> <li>Drift Deposits (B3)</li> <li>Algal Mat or Crust (B4)</li> <li>Iron Deposits (B5)</li> <li>Inundation Visible on Aerial Im</li> <li>Sparsely Vegetated Concave Summer Summ</li></ul>	Preser Recent Thin M agery (B7) Other urface (B8)	nce of Reduced Iron (C4) t Iron Reduction in Tilled Soils (C6) luck Surface (C7) (Explain in Remarks)	<ul> <li>Stunted or Stressed Plants (D</li> <li>Geomorphic Position (D2)</li> <li>Shallow Aquitard (D3)</li> <li>Microtopographic Relief (D4)</li> <li>FAC-Neutral Test (D5)</li> </ul>	) ) )
Field Observations:				
Surface Water Present?	Yes No 🟒	Depth (inches):		
Water Table Present?	Yes No 🟒	Depth (inches):	Wetland Hydrology Present?	Yes No 🟒
Saturation Present?	Yes No 🟒	Depth (inches):		
(includes capillary fringe)			—	
Describe Recorded Data (stream g	auge, monitoring well, a	erial photos, previous inspections), i	f available:	

Sampling Point: W-BTF-11\_UPL-1

1.       Carya ovata       60       Yes       FACU       Are OBL, FACW, or FAC:       1       (v)         2.       Ultus americana       5       No       FACW       Total Number of Dominant Species       4       (f)         3.       Percent of Dominant Species That       25       (A/B)       Percent of Dominant Species That       25       (A/B)         5.       Septime/Shrub Stratum (Plot size: _15.f.)         OBL, FACW, or FAC:       Total % Cover of       Natiply By:         1.       Lonicera japonica       10       Yes       FACU       FACU Species       3       x 2 =       70         4.          FACU Species       0       x 3 =       0         7.           Prevalence Index worksheet:            Na 4 =                FACU Species       0       x 3 =       0	Tree Stratum (Plot size: <u>30 ft</u> )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test wor Number of Dominan	<b>ksheet:</b> t Species That	1	(4)
2.       Ulmus americana       5       No       FACW       Total Number of Dominant Species       4       (B)         3.	1. <i>Carya ovata</i>	60	Yes	FACU	Are OBL, FACW, or FA	AC:		(A)
3.       Across All Strata:       Image: Constraint of Dominant Species That Are OBL, FACW, or FAC:       Z5       (A/B)         5.       Constraint Species That Are OBL, FACW, or FAC:       Z5       (A/B)         7.       Constraint Species That Are OBL, FACW, or FAC:       Total % Cover of Multiply Bp:         7.       Constraint Species That Are OBL, FACW, or FAC:       Prevalence Index worksheet:         7.       Constraint Species That Are OBL, FACW Species 35       x 2 = 70         7.       FAC Species 0       x 3 = 0         7.       FACU Species 0       x 5 = 0         8.       Column Totals 165       (A) 590 (B)         9.       Total Area Species 10       x 4 = 520         10.       Yes FACU       FACU Species 0       x 5 = 0         Column Totals 165       (A) 590 (B)       Prevalence Index = B/A = 3.6         9.       Total Area Species 10       x 4 = 520         10.       = Total Cover       Hydrophytic Vegetation Indicators:         11.       Prevalence Index is 4 = 3.0       -         2.       Phaleris arundinacea       30       Yes FACU         3.       Yes FACU       Problematic Mydrophytic Vegetation '(Explain)         11.       Problematic Brot Hydrophytic Vegetation '(Explain)       -	2. <i>Ulmus americana</i>	5	No	FACW	Total Number of Don	ninant Species	4	(B)
4.	3.				Across All Strata:			(8)
5.	4.				Percent of Dominant	Species That	25	(A/B)
6.	5.				Are OBL, FACW, or FA	AC:		
7.	6.				Prevalence Index wo	rksheet:		_
65       = Total Cover       Dust species       0       x1 =       0         Sapling/Shrub Stratum (Plot size: _15 ft_)       10       Yes       FACU       FACU species       35       x2 =       70         1       Lonicera japonica       10       Yes       FACU       FACU species       10       x3 =       0         2.          FACU species       10       x4 =       520         3.           Column Totals       165       (A)       590       (B)         4.           Column Totals       165       (A)       590       (B)         7.             2       Dominance Test is > 50% <td>7.</td> <td></td> <td></td> <td></td> <td>- Iotal % Cov</td> <td>er of:</td> <td>Multiply</td> <td><u>By:</u></td>	7.				- Iotal % Cov	er of:	Multiply	<u>By:</u>
Sapling/Shrub Stratum (Plot size: _15 ft_)       10       Yes       FACU       FACU species       35       x 2 =       70         1.       Lonicera japonica       10       Yes       FACU       FACU species       0       x 3 =       0         2.		65	= Total Cov	er	- OBL species	0	x 1 =	0
Lonicera japonica       10       Yes       FACU       FAC species       0       x 3 =       0         2	Sapling/Shrub Stratum (Plot size: 15 ft )				FACW species	35	x 2 =	70
2       130       x4 = 520         3.       0       x5 = 0         3.       0       x5 = 0         4.       0       165       0         5.       0       165       0         6.       10       = Total Cover       1. Rajid Test for Hydrophytic Vegetation         1.       2.       0       2. Dominance Test is > 50%         3.       35       Yes       FACU         1.       Poa pratensis       35       Yes         2.       Phalaris arundinacea       30       Yes         3.       Carya ovata       15       No         4.       Galum mollugo       5       No         5.       Facu       Problematic Hydrophytic Vegetation (Explain)         1.       11.       Problematic Hydrophytic Vegetation (Explain)         1.       6.       Tree - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1m) tall.         9.       9.       = Total Cover       Hydrophytic Vegetation Present? Yes	1. Lonicera iaponica	10	Yes	FACU	FAC species	0	x 3 =	0
3.	2				<ul> <li>FACU species</li> </ul>	130	x 4 =	520
4.	3				- UPL species	0	x 5 =	0
Frequence Index = B/A =3.6					- Column Totals	165	(A)	590 (B)
A.	т				- Prevalence	Index = B/A =	3.6	
0.	5				<ul> <li>Hydrophytic Vegetati</li> </ul>	ion Indicators:		
10       = Total Cover       2 - Dominance Test is > 50%         Herb Stratum (Plot size: _5ft_)       35       Yes       FACU         2. Phalaris arundinacea       30       Yes       FACW         3. Carya ovata       15       No       FACU         4. Galium mollugo       5       No       FACU         5. Fragaria virginiana       5       No       FACU         6.	o	·			1- Rapid Test fo	r Hydrophytic V	egetatior/	1
Herb Stratum (Plot size: _5 ft)	7		Tatal Car		2 - Dominance	Test is > 50%		
Herb Stratum (Piot size: _SIT_)		10	= lotal Cov	er	3 - Prevalence I	ndex is $\leq 3.0^1$		
1. Poa pratensis       35       Yes       FACU         2. Phalaris arundinacea       30       Yes       FACW         30       Yes       FACW	Herb Stratum (Plot size: <u>5 ft</u> )	25		FACU	4 - Morphologic	al Adaptations	(Provide	supporting
2. Phalaris arundinacea       30       Yes       FACW       Problematic Hydrophytic Vegetation1 (Explain)         3. Carya ovata       15       No       FACU       Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic         5. Fragaria virginiana       5       No       FACU       Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic         6.       5       No       FACU       Definitions of Vegetation Strata:         7.       6       7       7       Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.         8.			Yes	FACU	- data in Remarks or o	n a separate sh	neet)	
3. Carya ovata       15       No       FACU       IIndicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic         4. Galium mollugo       5       No       FACU       Definitions of Vegetation Strata:         6.       5       No       FACU       Definitions of Vegetation Strata:         7.       6       6       7       Definitions of Vegetation Strata:         8.       6       7       7       Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.         9.       7       7       7       Sapling/shrub - Woody plants less than 3.28 ft tall.         10.       7       7       7       Sapling/shrub - Woody plants less than 3.28 ft tall.         11.       7       90       = Total Cover       Herb - All herbaceous (non-woody) plants, regardless of size, and woody vines greater than 3.28 ft in height.         12.       90       = Total Cover       Hydrophytic Vegetation Present? Yes No        V         14.       0       7       7       1       1         15.       0       7       7       1       1       1         16.       90       = Total Cover       1       1       1       1         17.       0       7	2. Phalaris arundinacea	30	Yes	FACW	– Problematic Hy	drophytic Vege	tation <sup>1</sup> (E	(plain)
4. Galium mollugo       5       No       FACU       present, unless disturbed or problematic         5. Fragaria virginiana       5       No       FACU       Definitions of Vegetation Strata:         6.	3. <u>Carya ovata</u>	15	No	FACU	<sup>1</sup> Indicators of hydric	soil and wetlan	d hydrolo	gy must be
5.       Fragaria virginiana       5       No       FACU       Definitions of Vegetation Strata:         6.	4. Galium mollugo	5	No	FACU	present, unless distu	rbed or proble	matic	
6. Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.   8	5. <i>Fragaria virginiana</i>	5	No	FACU	Definitions of Vegeta	tion Strata:		
7.	6				Tree – Woody plants	3 in. (7.6 cm) oı	r more in	diameter at
8.	7				breast height (DBH),	regardless of h	eight.	
9 greater than or equal to 3.28 ft (1 m) tall. 10	8				Sapling/shrub – Woo	dy plants less t	han 3 in. I	OBH and
10.	9				greater than or equa	l to 3.28 ft (1 m	) tall.	
11.	10				Herb – All herbaceou	is (non-woody)	plants, re	gardless of
12.       90       = Total Cover       Woody Vines - All Woody Vines greater than 3.28 ft in height.         Woody Vine Stratum (Plot size:30 ft)       0	11				size, and woody plan	its less than 3.2	8 TT TAII.	20.6
<u>90</u> = Total Cover       Integrit.         1.       0         2.       0         3.       0         4.       0         0       0         0       0         1.       0         2.       0         3.       0         4.       0         0       = Total Cover	12				woody vines - All Wo	ody vines great	ter than 3	.28 ft in
Woody Vine Stratum (Plot size: _30 ft)       Hydrophytic Vegetation Present? Yes No _∠         1.		90	= Total Cov	er	neight.			
1.     0       2.	<u>Woody Vine Stratum</u> (Plot size: <u>30 ft</u> )				Hydrophytic Vegetat	tion Present?	/es N	No _
2	1	0						
3	2.							
4	3.			-	-			
0 = Total Cover	4.				-			
Demarker (Include abote numbers here er en a constate sheet.)		0	= Total Cov	er	-			
Nemerica (include photo pumbers here or on a constate cheet )								

SOIL

Depth Matrix		Redox	Feat	ures						
inches) Color (moist)	%	Color (moist)	<u>%</u>	Type <sup>1</sup>	Loc <sup>2</sup>	Texture				Remarks
0 - 16 10YR 4/2	100					Silt Loam	۱ <u> </u>			
· ·										
					<u> </u>					
					<u> </u>					
· /					<u> </u>					
·										
·										
pe: C = Concentration, D	= Depletic	on, RM = Reduced	Mati	rix, MS =	Masked S	Sand Grains. <sup>2</sup> L	ocation: PL = Po	re Lin	ing,	M = Matrix.
dric Soil Indicators:		,		, -			Indicators for	Probl	ema	tic Hydric Soils <sup>3</sup> :
Histosol (A1)		Polyvalue Be	low S	urface (S	8) (LRR R	, MLRA 149B)	2 cm Muck	(Δ10		RKI MIRA 149B)
_ Histic Epipedon (A2)		Thin Dark Su	rface	(S9) <b>(LRF</b>	R, MLRA	149B)	Coast Prai	ie Re	dox	(A16) (LRR K. L. R)
Black Histic (A3)		Loamy Muck	y Min	eral (F1)	(LRR K, L)	)	5 cm Muck	y Pea	t or	Peat (S3) <b>(LRR K, L, R)</b>
Hydrogen Sulfide (A4)		Loamy Gleye	d Ma	trix (F2)			Dark Surfa	ce (S7	') (LF	RR K, L)
Stratified Layers (A5)	faco (A11	Depleted Ma	trix (I	-3) co (E6)			Polyvalue I	Below	Sur	face (S8) <b>(LRR K, L)</b>
Thick Dark Surface (A12)		Depleted Dar	rk Su	rface (F7)	1		Thin Dark	Surfa	ce (S	9) <b>(LRR K, L)</b>
Sandy Mucky Mineral (S1	)	Redox Depre	ssior	ns (F8)			Iron-Mang	anese	Ma	sses (F12) <b>(LRR K, L, R)</b>
							Piedmont	-lood	plair	1 Soils (F19) (MLRA 149B)
_ Sandy Gleyed Matrix (S4)							Macie Cno.			
_ Sandy Gleyed Matrix (S4; _ Sandy Redox (S5)							Mesic Spoo	lic (17 Mati	46) <b>(</b> I arial	(F21)
_ Sandy Gleyed Matrix (S4, _ Sandy Redox (S5) _ Stripped Matrix (S6)							Mesic Spoo Red Paren Verv Shallo	ic (17 Mate w Da	46) <b>(</b> I erial rk S	(F21) urface (TF12)
_ Sandy Gleyed Matrix (S4 _ Sandy Redox (S5) _ Stripped Matrix (S6) _ Dark Surface (S7) <b>(LRR R,</b>	MLRA 14	9B)					Mesic Spoo Red Paren Very Shallo Other (Exp	iic (17 Mate w Da lain ii	(16) <b>(</b> 1 erial rk S n Re	(F21) urface (TF12) marks)
_ Sandy Gleyed Matrix (S4 _ Sandy Redox (S5) _ Stripped Matrix (S6) _ Dark Surface (S7) <b>(LRR R,</b> adicators of hydrophytic ye	MLRA 14	9 <b>B)</b> and wetland hvdr	rolog	v must b	e present	. unless disturbe	Mesic Spoo Red Paren Very Shallo Other (Exp	ic (17 Mate w Da lain ir	(6) <b>(</b> 1 erial rk S n Re	(F21) urface (TF12) marks)
_ Sandy Gleyed Matrix (S4 _ Sandy Redox (S5) _ Stripped Matrix (S6) _ Dark Surface (S7) <b>(LRR R,</b> ndicators of hydrophytic ve estrictive Layer (if observed	MLRA 14	9 <b>B)</b> and wetland hydr	rolog	y must b	e present	, unless disturbe	Mesic Spoo Red Paren Very Shallo Other (Exp ed or problemati	ic (17 Mate w Da lain ir c.	(6) <b>(</b> I erial rk S n Re	(F21) urface (TF12) marks)
_ Sandy Gleyed Matrix (S4 _ Sandy Redox (S5) _ Stripped Matrix (S6) _ Dark Surface (S7) (LRR R, dicators of hydrophytic ve strictive Layer (if observed Type:	MLRA 14 getation (	<b>9B)</b> and wetland hydr Roots	rolog	y must b	e present	:, unless disturbe 50il Present?	Mesic Spoo Red Paren Very Shallo Other (Exp ed or problemati	ic (17 Mate w Da lain ir c.	6) (I erial rk S n Re	(F21) urface (TF12) marks)
_ Sandy Gleyed Matrix (S4 _ Sandy Redox (S5) _ Stripped Matrix (S6) _ Dark Surface (S7) <b>(LRR R,</b> <u>dicators of hydrophytic ve</u> strictive Layer (if observed Type: 	MLRA 14	9 <b>B)</b> and wetland hydr Roots 16	rolog	y must b	e present	:, unless disturbe Soil Present?	Mesic Spoo Red Paren Very Shallo Other (Exp ed or problemati	dic (17 : Mate w Da lain ir cN	6) (I erial rk S n Re	(F21) urface (TF12) marks)
Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) <b>(LRR R,</b> dicators of hydrophytic ve strictive Layer (if observed Type: Depth (inches): marks:	MLRA 14	9 <b>B)</b> and wetland hydr Roots 16	rolog	y must b	e present	:, unless disturbe Soil Present?	Mesic Spoo Red Paren Very Shallo Other (Exp ed or problemati Yes	dic (17 : Mate w Da lain ir c N	6) (I erial rk S n Re <b>0</b>	(F21) urface (TF12) marks)
Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) <b>(LRR R,</b> dicators of hydrophytic ve strictive Layer (if observed Type: Depth (inches): narks:	MLRA 14	9 <b>B)</b> and wetland hydr Roots 16	rolog 	y must b	e present Hydric S	., unless disturbe Soil Present?	Mesic Spoo Red Paren Very Shallo Other (Exp ed or problemati Yes	ic (17 Mate w Da lain ii cN	6) (I erial rk S n Re <b>o</b>	(F21) urface (TF12) marks)
Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) <b>(LRR R,</b> dicators of hydrophytic ve strictive Layer (if observed Type: Depth (inches): marks:	MLRA 14:	9 <b>B)</b> and wetland hydr Roots 16	<u>-</u>	y must bi	e present Hydric S	., unless disturbe Soil Present?	Mesic Spoo Red Paren Very Shallo Other (Exp ed or problemati Yes	ic (17 Mate w Da lain ir c.	6) (I erial rk S n Re <b>0</b>	(F21) urface (TF12) marks)
Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, dicators of hydrophytic ve strictive Layer (if observed Type: Depth (inches): marks:	MLRA 14 getation . I):	<b>9B)</b> and wetland hydr Roots 16	rolog	y must b	e present	:, unless disturbe Soil Present?	Mesic Spoo Red Paren Very Shallo Other (Exp ed or problemati Yes	dic (17 : Mato w Da lain ir c.	6) (l erial rk S n Re <b>0</b>	(F21) urface (TF12) marks)
Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, dicators of hydrophytic ve strictive Layer (if observed Type: Depth (inches): marks:	MLRA 14:	9 <b>B)</b> and wetland hydr Roots 16	rolog	y must b	e present	:, unless disturbe Soil Present?	Mesic Spoo Red Paren Very Shallo Other (Exp ed or problemati Yes	ic (14 : Mate w Da lain ir cN	6) (I erial rk S n Re <b>0</b>	(F21) urface (TF12) marks)
Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, dicators of hydrophytic ve strictive Layer (if observed Type: Depth (inches): marks:	MLRA 14: getation    ): 	9 <b>B)</b> and wetland hydr Roots 16	<u>-</u>	y must b	e present	:, unless disturbe Soil Present?	Mesic Spoo Red Paren Very Shallo Other (Exp ed or problemati Yes	dic (1 <i>A</i> : Matu w Da lain ir c <b>N</b>	6) (I erial rk S n Re	(F21) urface (TF12) marks)
Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, dicators of hydrophytic ve strictive Layer (if observed Type: Depth (inches): marks:	MLRA 14:	9 <b>B)</b> and wetland hydr Roots 16		y must b	e present Hydric S	:, unless disturbe Soil Present?	Mesic Spoo Red Paren Very Shallo Other (Exp ed or problemati Yes	dic (1 <i>A</i> : Matu w Da lain ir c. N	6) (I erial rk S n Re 0	(F21) urface (TF12) marks)
_ Sandy Gleyed Matrix (S4 _ Sandy Redox (S5) _ Stripped Matrix (S6) _ Dark Surface (S7) <b>(LRR R,</b> dicators of hydrophytic ve strictive Layer (if observed Type: 	MLRA 14	9 <b>B)</b> and wetland hydr <u>Roots</u> 16		y must b	e present Hydric S	:, unless disturbe Soil Present?	Mesic Spoo Red Paren Very Shallo Other (Exp ed or problemati Yes	dic (1 <i>A</i> : Matu w Da lain ir c. N	6) (l rk S n Re	(F21) urface (TF12) marks)
_ Sandy Gleyed Matrix (S4 _ Sandy Redox (S5) _ Stripped Matrix (S6) _ Dark Surface (S7) <b>(LRR R,</b> dicators of hydrophytic ve strictive Layer (if observed Type: Depth (inches): marks:	MLRA 14: getation ():	9 <b>B)</b> and wetland hydr <u>Roots</u> 16		y must b	e present Hydric S	;, unless disturbe 5oil Present?	Mesic Spoo Red Paren Very Shallo Other (Exp ed or problemati Yes	iic (IA Matu W Da lain ii c. N	6) (l erial rk S n Re <b>0</b>	(F21) urface (TF12) marks)
_ Sandy Gleyed Matrix (S4 _ Sandy Redox (S5) _ Stripped Matrix (S6) _ Dark Surface (S7) <b>(LRR R,</b> dicators of hydrophytic ve strictive Layer (if observed Type: 	MLRA 14:	9 <b>B)</b> and wetland hydr <u>Roots</u> 16		y must b	e present Hydric S	., unless disturbe Soil Present?	Mesic Spot	iic (IA : Matu w Da lain ir c N	6) (l erial rk S n Re <b>0</b>	(F21) urface (TF12) marks)
Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, dicators of hydrophytic ve strictive Layer (if observed Type: Depth (inches): marks:	MLRA 14 getation . I):	9 <b>B)</b> and wetland hydr Roots 16	-	y must b	e present Hydric S	:, unless disturbe Soil Present?	Mesic Spot	iic (IA : Mata w Da lain ii c. <b>N</b>	6) (( erial rk S n Re 0	(F21) urface (TF12) marks)
Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, dicators of hydrophytic ve strictive Layer (if observed Type: Depth (inches): marks:	MLRA 14	9 <b>B)</b> and wetland hydr Roots 16	<u>-</u>	y must b	e present	:, unless disturbe Soil Present?	Mesic Spot	iic (IA : Mata w Da lain ii c.	6) (Ι erial rk S n Re <b>0</b> _ ,	(F21) urface (TF12) marks)
_ Sandy Gleyed Matrix (S4 _ Sandy Redox (S5) _ Stripped Matrix (S6) _ Dark Surface (S7) (LRR R, dicators of hydrophytic ve strictive Layer (if observed Type: Depth (inches): marks:	MLRA 14	9B) and wetland hydr Roots 16	-	y must b	e present	:, unless disturbe Soil Present?	Mesic Spot	iic (IA : Mata w Da lain ii c.	6) (( erial rk S n Re 0	(F21) urface (TF12) marks)
_ Sandy Gleyed Matrix (S4 _ Sandy Redox (S5) _ Stripped Matrix (S6) _ Dark Surface (S7) (LRR R, dicators of hydrophytic ve strictive Layer (if observed Type: Depth (inches): marks:	MLRA 14	9B) and wetland hydr Roots 16	-	y must b	e present Hydric S	;, unless disturbe Soil Present?	Mesic Spot	iic (IA : Mata w Da lain ii c. <b>N</b>	6) (( erial rk S n Re 0	(F21) urface (TF12) marks)
_ Sandy Gleyed Matrix (S4 _ Sandy Redox (S5) _ Stripped Matrix (S6) _ Dark Surface (S7) (LRR R, idicators of hydrophytic ve strictive Layer (if observed Type: 	MLRA 14	9B) and wetland hydr Roots 16	-	y must b	e present Hydric S	:, unless disturbe Soil Present?	Mesic Spot	iic (IA : Mata w Da lain ii c. N	6) (( erial rk S n Re 0	(F21) urface (TF12) marks)
_ Sandy Gleyed Matrix (S4 _ Sandy Redox (S5) _ Stripped Matrix (S6) _ Dark Surface (S7) <b>(LRR R,</b> idicators of hydrophytic ve strictive Layer (if observed Type: Depth (inches): marks:	MLRA 14	9B) and wetland hydr Roots 16	-	y must bi	e present	;, unless disturbe 5oil Present?	Mesic Spot	iic (IA : Mata w Da lain ii cN	6) (( erial rk S n Re 0	(F21) urface (TF12) marks)
_ Sandy Gleyed Matrix (S4 _ Sandy Redox (S5) _ Stripped Matrix (S6) _ Dark Surface (S7) (LRR R, dicators of hydrophytic ve strictive Layer (if observed Type: Depth (inches): marks:	MLRA 14	9B) and wetland hydr Roots 16	-	y must bi	e present	;, unless disturbe 5oil Present?	Mesic Spot	iic (IA : Mata w Da lain ii cN	6) (( erial rk S n Re 0	(F21) urface (TF12) marks)

### Soil Photos



Photo of Sample Plot South





Project/Site: Riverside	City/County: Chaumo	nt, Jeffe	erson		Sampling Date: 2020-Sept-23				
Applicant/Owner: G	eronimo				State: NY	Sampling Point: W-BTF-12_PSS-1			
Investigator(s): Bren	iner Fahrenz, I	Ryan Snow		Sec	tion, Township,	, Range:			
Landform (hillslope, te	rrace, etc.):	Depression	Loca	l relief	(concave, conv	/ex, none):	Concave	Slope (%)	: 1 to 3
Subregion (LRR or MLR	RA): LRR I	र		Lat:	44.058762146	5 Long:	-76.1001952449	Datum:V	VGS84
Soil Map Unit Name:	Galoo-Rock	outcrop complex	<, 0 to 8 percent slopes				NWI classific	cation: None	
Are climatic/hydrologic	conditions or	the site typical	for this time of year?		Yes 🟒 No	) (If no	o, explain in Rema	ırks.)	
Are Vegetation,	Soil,	or Hydrology	∠_ significantly disturb	ed?	Are "Norm	al Circums	tances" present?	Yes No	J_√_
Are Vegetation,	Soil,	or Hydrology	naturally problema	tic?	(If needed,	explain ar	y answers in Rem	arks.)	

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

Hydrophytic Vegetation Present?	Yes 🟒 No		
Hydric Soil Present?	Yes 🟒 No	Is the Sampled Area within a Wetland?	Yes 🯒 No
Wetland Hydrology Present?	Yes 🟒 No	lf yes, optional Wetland Site ID:	W-BTF-12
			-0

#### Remarks: (Explain alternative procedures here or in a separate report)

Covertype is PSS. Area is wetland, all three wetland parameters are present. Ditches/drain tiles observed. Circumstances are not normal due to agricultural activities. Circumstances are not normal due to mowing of vegetation. ATV/ORV impacts observed.

### HYDROLOGY

Wetland Hydrology Indicators:										
Primary Indicators (minimum of or	ne is required; check all	that apply)		Secondary Indicators (minimum of two required)						
<ul> <li>Surface Water (A1)</li> <li>High Water Table (A2)</li> <li>Saturation (A3)</li> <li>Water Marks (B1)</li> <li>Sediment Deposits (B2)</li> <li>Drift Deposits (B3)</li> <li>Algal Mat or Crust (B4)</li> <li>Iron Deposits (B5)</li> </ul>	Water- Aquati Marl D Hydro Oxidiz Preser Recent Thin M	Stained Leaves (B9) c Fauna (B13) peposits (B15) gen Sulfide Odor (C1) ed Rhizospheres on Living Roo nce of Reduced Iron (C4) t Iron Reduction in Tilled Soils luck Surface (C7)	ots (C3) s (C6)	<ul> <li>Surface Soil Cracks (B6)</li> <li>Drainage Patterns (B10)</li> <li>Moss Trim Lines (B16)</li> <li>Dry-Season Water Table (C2)</li> <li>Crayfish Burrows (C8)</li> <li>Saturation Visible on Aerial Imagery (C9)</li> <li>Stunted or Stressed Plants (D1)</li> <li>Geomorphic Position (D2)</li> <li>Shallow Aquitard (D3)</li> </ul>						
Inundation Visible on Aerial Im	agery (B7) Other	(Explain in Remarks)		Microtopographic Relief (D4)						
Sparsely Vegetated Concave Su	irface (B8)			∕ FAC-Neutral Test (D5)						
Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe)	Yes No _ <b>_/</b> Yes No _ <b>_/</b> Yes _ <b>_/</b> No	Depth (inches): Depth (inches): Depth (inches):	10	Wetland Hydrology Present? Yes _∠_ No						
Describe Recorded Data (stream g	auge, monitoring well, a	erial photos, previous inspect	tions), if a	available:						

### Remarks:

A positive indication of wetland hydrology was observed (primary and secondary indicators were present).

Sampling Point: W-BTF-12\_PSS-1

Tree Stratum (Plot size: <u>30 ft</u> )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test work Number of Dominant	<b>(sheet:</b> t Species That	5	(4)
1.	0			Are OBL, FACW, or FA	IC:		(A)
2.				Total Number of Dom	ninant Species	5	(B)
3.		·		Across All Strata:			(0)
4.				Percent of Dominant	Species That	100	(A/B)
5.				Are OBL, FACW, or FA	IC:		(* /
6.				<ul> <li>Prevalence Index wor</li> </ul>	rksheet:		
7.		·		- <u>Total % Cove</u>	<u>er of:</u>	<u>Multiply</u>	<u>′ By:</u>
		= Total Cov	er	- OBL species	57	x 1 =	57
Sanling/Shruh Stratum (Plot size: 15 ft )		-	CI	FACW species	35	x 2 =	70
1 Cornus racemosa	40	Voc	FAC	FAC species	75	x 3 =	225
2 Phampus cathortica	25	Voc		- FACU species	0	x 4 =	0
		res	FAC	- UPL species	0	x 5 =	0
3.		<u> </u>		- Column Totals	167	(A)	352 (B)
4.				- Prevalence	Index = B/A =	2.1	
5				Hydrophytic Vegetati	on Indicators:		
6				1- Rapid Test for	r Hydrophytic V	/egetatio	า
7				- 2 - Dominance 1	est is >50%	0	
	75	= Total Cov	er	✓ 3 - Prevalence Ir	ndex is $\leq 3.0^1$		
<u>Herb Stratum</u> (Plot size: <u>5 ft</u> )				4 - Morphologic	al Adaptations	Provide	supporting
1. Symphyotrichum lanceolatum	35	Yes	FACW	- data in Remarks or o	n a separate sh	(i i o riac	sapporting
2. <i>Scirpus atrovirens</i>	25	Yes	OBL	Problematic Hy	drophytic Vege	tation <sup>1</sup> (E	xplain)
3. <i>Epilobium palustre</i>	20	Yes	OBL	<sup>1</sup> Indicators of hydric s	soil and wetlan	d hydrolo	bgy must be
4. <i>Typha angustifolia</i>	12	No	OBL	present, unless distu	rbed or problei	matic	0,
5				Definitions of Vegeta	tion Strata:		
6.				Tree – Woody plants	3 in. (7.6 cm) oı	r more in	diameter a
7.				breast height (DBH),	regardless of h	eight.	
8.				Sapling/shrub - Woo	dy plants less t	han 3 in.	DBH and
9.				greater than or equa	l to 3.28 ft (1 m	) tall.	
10.		·		Herb – All herbaceou	s (non-woody)	plants, re	gardless of
11.				size, and woody plan	ts less than 3.2	8 ft tall.	
12				Woody vines – All wo	ody vines great	ter than 3	8.28 ft in
	92	= Total Cov	Per	height.			
Woody Vine Stratum (Plot size: 30 ft )		-		Hydrophytic Vegetat	ion Present?	/es 🟒	No
1	0						
۱	0			-			
2.		<u> </u>		-			
3.		<u> </u>		-			
4				-			
	0	= Total Cov	rer				

SOIL

Profile Desc	ription: (Describe	to the	depth needed to	docun	nent the	indicato	r or confirm the al	osence of indicators.)
Depth	Matrix		Redox	(Feat	ures			
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0 - 6	10YR 2/1	98	10YR 3/4	2	С	М	Silt Loam	
6 - 20	10YR 2/1	60	10YR 3/1	30	С	М	Clay	
6 - 20			10YR 4/2	10	С	М	Clay	
				·				
				·				
				· —				
				·				
				·				
<sup>1</sup> Type: C = C	Concentration, D =	Deplet	ion, RM = Reduce	d Mat	rix, MS =	Masked	Sand Grains. <sup>2</sup> Lo	ocation: PL = Pore Lining, M = Matrix.
Hydric Soil	Indicators:							Indicators for Problematic Hydric Soils <sup>3</sup> :
Histosol	(A1)		Polyvalue Be	elow S	Surface (S	8) (LRR	R, MLRA 149B)	2 cm Muck (A10) (I PR K   MI PA 149B)
Histic Ep	oipedon (A2)		Thin Dark Si	urface	e (S9) <b>(LRF</b>	R, MLR	A 149B)	Coast Prairie Redox (A16) (I RR K   R)
Black Hi	stic (A3)		Loamy Mucl	ky Mir	neral (F1)	(LRR K,	L)	5 cm Mucky Peat or Peat (S3) (I RR K   R)
Hydroge	en Sulfide (A4)		Loamy Gley	ed Ma	itrix (F2)			Dark Surface (S7) (I RR K 1)
Stratifie	d Layers (A5)		Depleted Ma	atrix (	F3)			Polyvalue Below Surface (S8) (I RR K. I.)
Deplete	d Below Dark Surfa	ace (A1	1) 🖌 Redox Dark	Surfa	ce (F6)			Thin Dark Surface (S9) (I RR K 1)
Thick Da	ark Surface (A12)		Depleted Da	ark Su	rface (F7)	)		Iron-Manganese Masses (F12) (I RR K. L. R)
Sandy N	1ucky Mineral (S1)		Redox Depr	essior	าร (F8)			Piedmont Floodplain Soils (F19) (MI RA 149B)
Sandy G	ileyed Matrix (S4)							Mesic Spodic (TA6) (MI RA 144A 145 149B)
Sandy R	edox (S5)							Red Parent Material (F21)
Stripped	d Matrix (S6)							Very Shallow Dark Surface (TE12)
Dark Su	rface (S7) <b>(LRR R, M</b>	ILRA 1	49B)					Other (Explain in Remarks)
21	af hualwa a huatia ua a						t	
Postriative I		etation	and wetland hyd	irolog	y must b	e preser	it, unless disturbe	d or problematic.
Restrictive	_ayer (if observed): 							
	Type:		None			Hydric	Soil Present?	Yes No
	Depth (inches):							
Remarks:								
A positive ir	ndication of hydric	soil wa	as observed.					

Soil Photos



Photo of Sample Plot East Photo of Sample Plot West



Project/Site: Riverside Solar	City/County: Chaumont, Jefferson	Sampling Date: 2020-Sept-23		
Applicant/Owner: Geronimo	State: NY	Sampling Point: W-BTF-12_UPL-1		
Investigator(s): Brenner Fahrenz, Ryan Snow	Section, Township, Range:			
Landform (hillslope, terrace, etc.): Low Hill	Local relief (concave, convex, none):	Convex Slope (%): 2 to 5		
Subregion (LRR or MLRA): LRR R	Lat: 44.0586743419 Long:	-76.100105882 Datum: WGS84		
Soil Map Unit Name:Galoo-Rock outcrop complete	ex, 0 to 8 percent slopes	NWI classification: None		
Are climatic/hydrologic conditions on the site typica	al for this time of year? Yes _✔_ No (If no	, explain in Remarks.)		
Are Vegetation $\underline{\checkmark}$ , Soil $\underline{\checkmark}$ , or Hydrology _	✓ significantly disturbed? Are "Normal Circums"	ances" present? Yes No 🟒		
Are Vegetation, Soil, or Hydrology _	naturally problematic? (If needed, explain an	y answers in Remarks.)		

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

Hydrophytic Vegetation Present?	Yes No 🟒							
Hydric Soil Present?	Yes No 🟒	Is the Sampled Area within a Wetland?	Yes No⁄_					
Wetland Hydrology Present?	Yes No 🟒	If yes, optional Wetland Site ID:						
Remarks: (Evaluin alternative precedures here or in a constate report)								

#### Remarks: (Explain alternative procedures here or in a separate report)

Covertype is UPL. Area is upland, not all three wetland parameters are present. Circumstances are not normal due to mowing of vegetation. Road shoulder.

### HYDROLOGY

Wetland Hydrology Indicators:			
Primary Indicators (minimum o	of one is required; check all i	<u>that apply)</u>	Secondary Indicators (minimum of two required)
<ul> <li>Surface Water (A1)</li> <li>High Water Table (A2)</li> <li>Saturation (A3)</li> <li>Water Marks (B1)</li> <li>Sediment Deposits (B2)</li> </ul>	Water Aquati Marl D Hydro Oxidiz	-Stained Leaves (B9) ic Fauna (B13) Deposits (B15) gen Sulfide Odor (C1) ed Rhizospheres on Living Roots (C3)	<ul> <li>Surface Soil Cracks (B6)</li> <li>Drainage Patterns (B10)</li> <li>Moss Trim Lines (B16)</li> <li>Dry-Season Water Table (C2)</li> <li>Crayfish Burrows (C8)</li> <li>Saturation Visible on Aerial Imagery (C9)</li> </ul>
Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aeria Sparsely Vegetated Concav	Preser Recent Thin N I Imagery (B7) Other re Surface (B8)	nce of Reduced Iron (C4) t Iron Reduction in Tilled Soils (C6) Juck Surface (C7) (Explain in Remarks)	Stunted or Stressed Plants (D1) Geomorphic Position (D2) Shallow Aquitard (D3) Microtopographic Relief (D4) FAC-Neutral Test (D5)
Field Observations:			
Surface Water Present?	Yes No 🟒	Depth (inches):	
Water Table Present?	Yes No 🟒	Depth (inches):	Wetland Hydrology Present? Yes No
Saturation Present?	Yes No 🟒	Depth (inches):	
(includes capillary fringe)			

# Remarks:

No positive indication of wetland hydrology was observed.

Sampling Point: W-BTF-12\_UPL-1

<u>Tree Stratum</u> (Plot size: <u>30 ft</u> )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species The	<sup>at</sup> 1	(A)
1	0			Are OBL, FACW, or FAC:		
2				Across All Strata:	3	(B)
4.				Percent of Dominant Species Tha	t 33.3	<b>3</b> (A/B)
5				- Provalence Index worksheet:		
6				- Total % Cover of:	Multiph	/ Bv:
7				- OBI species 0	<u>v 1 =</u>	
	0	= Total Cov	er	FACW species 0	- x2=	0
Sapling/Shrub Stratum (Plot size: <u>15 ft</u> )				FAC species 5	- x2 x3=	15
1. <i>Rhamnus cathartica</i>	5	Yes	FAC	- FACU species 65		260
2				IIPL species 20	- ^+- ×5-	100
3.				- Column Totals	_ (^)	27E (P)
4.				$\frac{1}{90}$	(A) (A)	575 (D)
5.					- <u>4.2</u>	-
6.				- Hydrophytic Vegetation Indicator	5:	
7.				1- Rapid Test for Hydrophyti	c Vegetatio	n
	5	= Total Cov	er	- 2 - Dominance Test is > 50%		
Herb Stratum (Plot size: 5 ft)		-		$3 - Prevalence Index is \le 3.0$	1	
1. Taraxacum officinale	25	Yes	FACU	4 - Morphological Adaptatio	ns <sup>1</sup> (Provide	e supporting
2. <i>Festuca rubra</i>	20	Yes	FACU	- data in Remarks or on a separate	sneet)	
3. Trifolium pratense	15	No	FACU	<ul> <li>Problematic Hydrophytic Versional and wetter</li> </ul>	gelation' (E	xpiain)
4. Daucus carota	15	No	UPL	- indicators of hydric soli and well	lematic	bgy must be
5. Setaria faberi	5	No	FACU	Definitions of Vegetation Strata:	lematic	
6. <i>Verbascum thapsus</i>	5	No	UPL	Tree – Woody plants 3 in (7.6 cm)	or more in	diameter at
7				breast height (DBH), regardless o	f height.	ulameter at
8				- Sapling/shrub - Woody plants les	s than 3 in	DBH and
9				greater than or equal to 3.28 ft (1	m) tall.	bbiraila
10		·		Herb – All herbaceous (non-wood	y) plants, re	egardless of
11	·			size, and woody plants less than 3	3.28 ft tall.	0
12				- Woody vines – All woody vines gr	eater than 3	3.28 ft in
12		- Total Cau		height.		
	65	= Total Cov	er	Hydrophytic Vegetation Present	Yes	No 🖌
woody vine Stratum (Plot size: <u>30 ft</u> )	0			· · · · · · · · · · · · · · · · · · ·		
	0	<u> </u>		-		
2.		·		-		
3				-		
4				_		
	0	= Total Cov	er			

SOIL

# Sampling Point: W-BTF-12\_UPL-1

Profile Des	scription: (Describe	to the c	lepth needed to d	ocun	nent the i	ndicato	r or confirm the a	bsence of indicators.	)
Depth	Matrix		Redox	<pre>&lt; Feat</pre>	ures				
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Те	exture	Remarks
0 - 5	10YR 3/2	100					Gravell	y Silt Loam	
5 - 12	10YR 3/1	90	10YR 4/2	10	С	М	Clay	y Loam	
	-								
<sup>1</sup> Type: C =	Concentration, D =	Depleti	on, RM = Reduced	l Mati	rix, MS =	Masked	Sand Grains. <sup>2</sup> L	ocation: PL = Pore Lir	ning, M = Matrix.
Hydric Soil	Indicators:							Indicators for Prob	lematic Hydric Soils <sup>3</sup> :
Histoso	ol (A1)		Polyvalue Be	low S	urface (S	8) <b>(LRR</b>	R, MLRA 149B)	2 cm Muck (A10	D) (LRR K, L, MLRA 149B)
Histic E	Epipedon (A2)		Thin Dark Su	rface	(S9) (LRR	R, MLR	A 149B)	Coast Prairie Re	edox (A16) <b>(LRR K, L, R)</b>
Black F	listic (A3)		Loamy Muck	y Mir	ieral (F1)	(LRR K, I	_)	5 cm Mucky Pe	at or Peat (S3) <b>(LRR K, L, R)</b>
Hydrog	gen Sulfide (A4)		Loamy Gleye	d Ma	trix (F2)			Dark Surface (S	57) (LRR K, L)
Stratifi	ed Layers (A5) ad Balaw Dark Surf	aca (A1)		itrix (I	-3) co (E6)			Polyvalue Belov	w Surface (S8) <b>(LRR K, L)</b>
Depiet	ark Surface (A12)	ace (AT		rk Su	rface (FO)			Thin Dark Surfa	ace (S9) <b>(LRR K, L)</b>
Sandy	Mucky Mineral (S1)		Depieted Da	ssion	nace (F7) ns (F8)			Iron-Manganes	e Masses (F12) <b>(LRR K, L, R)</b>
Sandy	Gloved Matrix (S4)			.55101	13 (1 0)			Piedmont Floor	dplain Soils (F19) <b>(MLRA 149B)</b>
Sanuy	Dedex (SE)							Mesic Spodic (T	A6) <b>(MLRA 144A, 145, 149B)</b>
Sanuy	Redux (SS)							Red Parent Mat	terial (F21)
Strippe	ed Matrix (S6)							Very Shallow D	ark Surface (TF12)
Dark S	urtace (S7) <b>(LRR R, I</b>	VILKA 14	19B)					Other (Explain i	in Remarks)
<sup>3</sup> Indicators	s of hydrophytic veg	getation	and wetland hyd	rolog	y must be	e preser	t, unless disturbe	ed or problematic.	
Restrictive	Layer (if observed)	:							
	Туре:		None			Hydric	Soil Present?		Yes No 🟒
	Depth (inches):					-			
Remarks:		-		-					
nemarits.									
No positiv	e indication of hydr	ic soils v	was observed. Ret	usal	due to co	arse fra	gments.		

### Soil Photos



Photo of Sample Plot East Photo of Sample Plot West



Project/Site: Riverside	Solar	Cit	ty/County: Water	town, Jeff	erson		Sampling Date:	2020-June-04
Applicant/Owner: G	eronimo				State: NY		Sampling Point: V	V-JJB-01_PSS-1
Investigator(s): Jake	Brillo, Ryan Sn	ow, Ben Popham		Sec	tion, Township, Ra	nge:		
Landform (hillslope, te	rrace, etc.):	Depression	Lo	ocal relief	(concave, convex,	, none):	Concave	Slope (%): 0 to 1
Subregion (LRR or MLR	RA): LRR F	ł		Lat:	44.0894632973	Long:	-75.9818617255	Datum: WGS84
Soil Map Unit Name:	LcLivingstor	n mucky silty clay					NWI classific	ation:
Are climatic/hydrologic	conditions on	the site typical fo	r this time of year	?	Yes 🟒 No 🔄	(If no	o, explain in Remar	ˈks.)
Are Vegetation,	Soil,	or Hydrology	significantly distu	irbed?	Are "Normal (	Circums	tances" present?	Yes 🟒 No
Are Vegetation,	Soil,	or Hydrology	naturally problen	natic?	(lf needed, ex	plain an	y answers in Rema	arks.)

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

Hydrophytic Vegetation Present?	Yes 🟒 No		
Hydric Soil Present?	Yes 🟒 No	Is the Sampled Area within a Wetland?	Yes 🟒 No _
Wetland Hydrology Present?	Yes 🟒 No	If yes, optional Wetland Site ID:	W-JJB-01
Remarks: (Explain alternative procedures	here or in a separate repo	ort)	
Covertype is PSS.			

### HYDROLOGY

Wetland Hydrology Indicators:				
Primary Indicators (minimum of or	ne is required; check all	<u>that apply)</u>		Secondary Indicators (minimum of two required)
Surface Water (A1) _✓ High Water Table (A2) _✓ Saturation (A3) Water Marks (B1) Sediment Deposits (B2)	Water Aquati Marl D Hydro Oxidiz	-Stained Leaves (B9) ic Fauna (B13) Deposits (B15) gen Sulfide Odor (C1) ed Rhizospheres on Living	g Roots (C3)	<ul> <li>Surface Soil Cracks (B6)</li> <li>Drainage Patterns (B10)</li> <li>Moss Trim Lines (B16)</li> <li>Dry-Season Water Table (C2)</li> <li>Crayfish Burrows (C8)</li> <li>Saturation Visible on Aerial Imagery (C9)</li> </ul>
<ul> <li>Drift Deposits (B3)</li> <li>Algal Mat or Crust (B4)</li> <li>Iron Deposits (B5)</li> <li>Inundation Visible on Aerial Image Sparsely Vegetated Concave Su</li> </ul>	Preser Recen Thin M agery (B7) Other ırface (B8)	nce of Reduced Iron (C4) t Iron Reduction in Tilled S Juck Surface (C7) (Explain in Remarks)	Soils (C6)	<ul> <li>Stunted or Stressed Plants (D1)</li> <li>Geomorphic Position (D2)</li> <li>Shallow Aquitard (D3)</li> <li>Microtopographic Relief (D4)</li> <li>FAC-Neutral Test (D5)</li> </ul>
Field Observations:				
Surface Water Present?	Yes No 🟒	Depth (inches):		
Water Table Present?	Yes 🟒 No	Depth (inches):	6	Wetland Hydrology Present? Yes No
Saturation Present?	Yes 🟒 No	Depth (inches):	0	_
(includes capillary fringe)				
Describe Recorded Data (stream g	auge, monitoring well, a	ierial photos, previous ins	pections), if	available:

Sampling Point: W-JJB-01\_PSS-1

Tree Stratum (Plot size: <u>30 ft</u> )	Absolute	Dominant	Indicator	Dominance Test works	heet:		
1	% COVE	species:	Status	Are OBL FACW or FAC		4	(A)
1				Total Number of Domir	nant Species		
2.				Across All Strata:		4	(B)
3				Percent of Dominant S	pecies That	400	(1 (2)
4.				Are OBL, FACW, or FAC		100	(A/B)
5.				Prevalence Index works	sheet:		
6.				Total % Cover	<u>of:</u>	<u>Multiply</u>	<u>By:</u>
7				OBL species	57	x 1 =	57
	0	= lotal Cov	er	FACW species	120	x 2 =	240
Sapling/Shrub Stratum (Plot size: <u>15 ft</u> )				FAC species	65	x 3 =	195
1. Cornus racemosa	65	Yes	FAC	FACU species	0	x 4 =	0
2. <u>Salix petiolaris</u>	30	Yes	FACW	UPL species	0	x 5 =	0
3. <u>Salix discolor</u>	15	No	FACW	Column Totals	242	(A)	492 (B)
4.				Prevalence Ir	ndex = B/A =	2	
5.				Hydrophytic Vegetation	Indicators:		
o				1- Rapid Test for H	lydrophytic V	egetation/	
/		Tabal Car		2 - Dominance Te	st is >50%		
	110	= lotal Cov	er	3 - Prevalence Ind	ex is $\leq 3.0^1$		
Herb Stratum (Plot size: <u>5 ft</u> )	75		EA CIA/	4 - Morphological	Adaptations <sup>1</sup>	(Provide	supporting
		Yes	FACW	data in Remarks or on	a separate sh	neet)	
		Yes	OBL	Problematic Hydr	ophytic Vege	tation <sup>1</sup> (Ex	(plain)
3. Carex lacustris		NO	OBL	<sup>1</sup> Indicators of hydric so	il and wetlan	d hydrolog	gy must be
4. <u>Equisetum fluviatile</u>	7	No	OBL	present, unless disturb	ed or probler	matic	
5				Definitions of Vegetation	on Strata:		
6				Tree – Woody plants 3 i	n. (7.6 cm) or	r more in o	diameter at
7				breast height (DBH), re	gardless of h	eight.	
8				Sapling/shrub – Woody	plants less t	han 3 in. E	OBH and
9				greater than or equal to	03.28π(Im	) tall.	<b>6</b>
10				Herb – All nerbaceous (	non-woody)	plants, reg	gardless of
11					less than 3.2	tor than 3	28 ft in
12				height	iy villes great		.201111
	132	= Total Cov	er		- D	/ / N	
<u>Woody Vine Stratum</u> (Plot size: <u>30 ft</u> )				Hydrophytic vegetatio	n Present?	res N	10
1							
2							
3							
4							
	0	= Total Cov	er				
Remarks: (Include photo numbers here or on a sep	arate sheet.)			_			

SOIL

nches) C D - 12 2 - 20 2 - 20 	Color (moist)           10YR 2/1           10YR 3/1           10YR 3/1	- <u>%</u> - 95 - 95 - -     Depleti	Color (moist) 10YR 6/6 10YR 7/8 	96 Ma 96 Ma 96 Ma 97 Mi 97	Type1           C           C           C           Surface (           C           C           C           Surface (           C	Loc <sup>2</sup> <u>M/PL</u> <u>M</u> <u>M</u> <u>M</u> <u>M</u> <u>M</u> <u>M</u> <u>M</u> <u>M</u>	Texture           Loam           Clay           Olar           d Grains.           2Loca           In           LRA 149B)           9B)	Remarks
2 - 20 2 - 20 2 - 20 ye: C = Conce dric Soil Indic Histosol (A1) Histic Epipeo Black Histic ( Hydrogen Su Stratified Lay Depleted Be Thick Dark S Sandy Redo: Sandy Redo: Sandy Redo: Sandy Redo: Sandy Redo: Sandy Redo: Sandy Redo: Stripped Ma Dark Surface dicators of hy strictive Layer Type Dep	10YR 2/1 10YR 3/1 10YR 3/1 	95 95 - - - - - - - - - - - - - - - - -	10YR 6/6 10YR 7/8 on, RM = Reduce Polyvalue Ba Thin Dark Sa Loamy Muci Loamy Gley Depleted Ma Depleted Da Redox Depr 49B)	s d Ma elow wurfac ky Mi ed Ma atrix Surfa ressic	C C C C C C C C C C C C C C C C C C C	<u>M/PL</u> <u>M</u> <u>M</u> <u>M</u> <u>M</u> <u>M</u> <u>M</u> <u>M</u> <u>M</u> <u>M</u> <u>M</u>	Loam Clay d Grains. <sup>2</sup> Loca In LRA 149B) 	ation: PL = Pore Lining, M = Matrix. adicators for Problematic Hydric Soils <sup>3</sup> : 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)
2 - 20	10YR 3/1 ientration, D = cators: ) don (A2) (A3) ulfide (A4) iyers (A5) elow Dark Surfac Surface (A12) iyer Mineral (S1) ed Matrix (S4) ix (S5) atrix (S6) e (S7) (LRR R, M	95 97 97 97 97 97 97 97 97 97 97 97 97 97	10YR 7/8 on, RM = Reduce Polyvalue Bi Thin Dark Si Loamy Muci Loamy Gley Depleted Mi 1) ✓ Redox Dark Redox Depr 49B)	5 	C C C C C C C C C C C C C C C C C C C		Clay 	ation: PL = Pore Lining, M = Matrix. ation: PL = Pore Lining, M = Matrix. ation: PL = Pore Lining, M = Matrix. atioators for Problematic Hydric Soils <sup>3</sup> : 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) 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)
rpe: C = Conce dric Soil Indic Histosol (A1) Histic Epipec Black Histic ( Hydrogen SL Stratified Lay Depleted Be Thick Dark S Sandy Mucky Sandy Gleye Sandy Redoo Stripped Ma Dark Surface dicators of hy strictive Layen Type	entration, D = cators: ) don (A2) (A3) ulfide (A4) yers (A5) elow Dark Surfa Surface (A12) sy Mineral (S1) ed Matrix (S4) wx (S5) atrix (S6) e (S7) (LRR R, M		on, RM = Reduce Polyvalue Bi Thin Dark Si Loamy Muci Loamy Gley Depleted M. 1) ✓ Redox Dark Depleted Da Redox Depr 49B)	elow urfac d Ma atrix Surfa ark Su	surface ( e (S9) (LR ineral (F1 atrix (F2) (F3) ace (F6) urface (F3) nns (F8)	= Masked San (S8) (LRR R, M RR R, MLRA 14 ) (LRR K, L)	d Grains. <sup>2</sup> Loca In LRA 149B)	ation: PL = Pore Lining, M = Matrix. ation: PL = Pore Lining, M = Mat
'pe: C = Conco dric Soil Indic Histosol (A1) Histic Epipec Black Histic ( Hydrogen Su Stratified Lay Depleted Be Thick Dark S Sandy Muck Sandy Gleye Sandy Redoo Stripped Ma Dark Surface dicators of hy strictive Layen Type Dep	tentration, D = cators: ) don (A2) (A3) ulfide (A4) nyers (A5) elow Dark Surfa Surface (A12) sy Mineral (S1) ed Matrix (S4) wx (S5) atrix (S6) e (S7) (LRR R, M		ion, RM = Reduce Polyvalue Bu Thin Dark Su Loamy Mucl Loamy Gley Depleted Mu 1) Redox Dark Depleted Da Redox Depr 49B)	elow urfac d Ma et Ma et Ma atrix Surfa ark Su ressic	Surface ( e (S9) (LR ineral (F1 atrix (F2) (F3) ace (F6) urface (F8)	= Masked San (S8) (LRR R, M RR R, MLRA 14 ) (LRR K, L)	d Grains. <sup>2</sup> Loca In LRA 149B) 9B)    	ation: PL = Pore Lining, M = Matrix. ndicators for Problematic Hydric Soils <sup>3</sup> : 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)
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Sandy Muck Sandy Gleye Sandy Redo: Stripped Ma Dark Surface dicators of hy strictive Layer Type	ed Matrix (S4) xx (S5) atrix (S6) e (S7) <b>(LRR R, N</b>	/ILRA 14	Redox Depr 49B)	23510	JIIS (FO)		-	Piedmont Floodplain Soils (F19) <b>(MLRA 149B)</b> Mesic Spodic (TA6) <b>(MLRA 144A, 145, 149B)</b> Red Parent Material (F21)
Sandy Gleye Sandy Redo: Stripped Ma Dark Surface dicators of hy strictive Layer Type	atrix (S5) atrix (S6) e (S7) <b>(LRR R, N</b>	/ILRA 14	49B)				-	Mesic Spodic (TA6) <b>(MLRA 144A, 145, 149B)</b> Red Parent Material (F21)
	atrix (S6) e (S7) <b>(LRR R, N</b>	/ILRA 14	49B)					Red Parent Material (F21)
dicators of hy strictive Layer Dop	e (S7) <b>(LRR R, M</b>	/ILRA 14	49B)					
dicators of hy strictive Layer Type Dep			+50)					Very Shallow Dark Surface (TF12)
dicators of hy strictive Laye Type Dep	vdrophytic v							Other (Explain in Remarks)
strictive Laye Type Dep	yuropnyuc veg	etation	and wetland hyd	drolo	gy must	be present, ui	less disturbed o	or problematic.
Type Dep	er (if observed):	:						
Dep	e:		None	_		Hydric Soil F	resent?	Yes _ 🖌 No
	oth (inches):							
marks:								

Hydrology Photos



Vegetation Photos



Soil Photos



Project/Site: Riverside Solar	rCity/County:\	Vatertown, Jefferson	Sampling Date: 2020-June-04						
Applicant/Owner: Geroni	imo	State: NY	Sampling Point: W-JJB-01_UPL-1						
Investigator(s): Jake Brillo	, Ryan Snow, Ben Popham	Section, Township, Range:							
Landform (hillslope, terrace,	, etc.): Hillslope	Local relief (concave, convex, none):	None Slope (%): 1 to 3						
Subregion (LRR or MLRA):	LRR R	Lat: 44.0896362579 Long:	-75.9821046331 Datum: WGS84						
Soil Map Unit Name: GbBGaloo-Rock outcrop complex, 0 to 8 percent slopes NWI classification:									
Are climatic/hydrologic cond	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 Circums	tances" present? Yes 🟒 No						
Are Vegetation, Soil _	, or Hydrology naturally pr	oblematic? (If needed, explain ar	ny answers in Remarks.)						

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

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

### HYDROLOGY

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

Sampling Point: W-JJB-01\_UPL-1

Tree Stratum (Plot size: <u>30 ft</u> )	Absolute % Cover	Dominant	Indicator	Dominance Test works	heet:		
1	70 00101	opecies.	510105	Are OBL, FACW, or FAC	:	2	(A)
1				Total Number of Domi	nant Species		
2				Across All Strata:		5	(B)
				Percent of Dominant S	pecies That	40	(A/P)
4				Are OBL, FACW, or FAC	:	40	(A/B)
5				<ul> <li>Prevalence Index work</li> </ul>	sheet:		
7				- <u>Total % Cover</u>	of:	<u>Multiply</u>	<u>By:</u>
7		- Total Cov	or	OBL species	0	x 1 =	0
Sapling/Shrub Stratum (Blot size: 15 ft )	0	- 10tai COV	ei	FACW species	0	x 2 =	0
<u>Sapiing/Sillub Stratum</u> (Plot Size. <u>15 it</u> )	6 F	Vac	EAC.	FAC species	85	x 3 =	255
		Vec		FACU species	95	x 4 =	380
2. Lonicera lalarica	40	res	FACU	UPL species	0	x 5 =	0
3.				- Column Totals	180	(A)	635 (B)
4.				Prevalence Ir	ndex = B/A =	3.5	
5.				Hydrophytic Vegetatio	n Indicators:		
6.				1- Rapid Test for I	- 	/egetatior	1
7				2 - Dominance Te	st is > 50%		
	105	= Total Cov	er	3 - Prevalence Inc	lex is $\leq 3.0^1$		
<u>Herb Stratum</u> (Plot size: <u>5 ft</u> )				4 - Morphological	Adaptations	<sup>1</sup> (Provide	supporting
1. Lonicera tatarica	40	Yes	FACU	data in Remarks or on	a separate sh	neet)	
2. <u>Rhamnus cathartica</u>	20	Yes	FAC	Problematic Hydr	ophytic Vege	tation <sup>1</sup> (E>	(plain)
3. <i>Fragaria virginiana</i>	15	Yes	FACU	<sup>1</sup> Indicators of hydric so	il and wetlan	d hydrolo	gy must be
4				present, unless disturb	ed or proble	matic	
5				Definitions of Vegetation	on Strata:		
6				Tree – Woody plants 3	in. (7.6 cm) o	r more in	diameter at
7				breast height (DBH), re	gardless of h	eight.	
8				Sapling/shrub - Woody	/ plants less t	han 3 in. I	OBH and
9				greater than or equal t	o 3.28 ft (1 m	) tall.	
10				Herb – All herbaceous	(non-woody)	plants, re	gardless of
11				size, and woody plants	less than 3.2	8 ft tall.	
12				Woody vines – All wood	dy vines grea	ter than 3	.28 ft in
	75	= Total Cov	er	neight.			
<u>Woody Vine Stratum</u> (Plot size: <u>30 ft</u> )		-		Hydrophytic Vegetatio	n Present?	Yes N	No 🔽
1.							
2.				-			
3.							
4.							
	0	= Total Cov	er	-			
		-					
Remarks: Unclude photo numbers here of on a s	eparate sneet.)						

SOIL

# Sampling Point: W-JJB-01\_UPL-1

0 - 3	Color (moist)	%	Color (moist)	<u>%</u> -	Type <sup>1</sup>	Loc <sup>2</sup> Te	xture	Remarks
	10YR 3/2	100				Clay	/ Loam	
		_		·				
		_		· — -				
		_		· — -				
		_						
e: C = C	oncentration, D = l	Depletic	n, RM = Reduced	Matrix	k, MS = I	Masked Sand Grains	. <sup>2</sup> Location: PL =	Pore Lining, M = Matrix.
ric Soil   Jistopol	ndicators:		Polyvaluo Po		rfaco (S		Indicators	for Problematic Hydric Soils <sup>3</sup> :
Histic Er	(AT) pipedon (A2)		Thin Dark Su	rface (S	59) <b>(LRR</b>	R. MLRA 1498)	2 cm N	1uck (A10) (LRR K, L, MLRA 149B)
3lack Hi	stic (A3)		Loamy Muck	y Miner	ral (F1) (	LRR K, L)	Coast P	Prairie Redox (AT6) (LRR K, L, K)
Hydroge	en Sulfide (A4)		Loamy Gleye	d Matri	ix (F2)		Dark S	urface (S7) (I RR K. I.)
Stratifie	d Layers (A5)		Depleted Ma	trix (F3	)		Polyval	ue Below Surface (S8) (LRR K, L)
Deplete	d Below Dark Surfa	ice (A11	) Redox Dark S	Surface	(F6)		Thin D	ark Surface (S9) (LRR K, L)
hick Da	ark Surface (A12)		Depleted Dar	rk Surfa	ace (F7)		Iron-M	anganese Masses (F12) (LRR K, L, R)
Sandy IV	lucky Milleral (ST)		Redox Depre	SSIONS	(F8)		Piedmo	ont Floodplain Soils (F19) <b>(MLRA 149B)</b>
Sanuy C	aday (SE)						Mesic S	Spodic (TA6) <b>(MLRA 144A, 145, 149B)</b>
Sanuy R	euux (SS)						Red Pa	rent Material (F21)
Dark Su	rfaca (SZ) (LDD D M		וסנ				Very Sł	nallow Dark Surface (TF12)
Dark Su			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				Other (	Explain in Remarks)
	of hydrophytic yeg	etation	and wetland hydr	ology r	must be	present, unless dist	urbed or probler	natic.
icators	aver (if observed).					Hydric Soil Present	?	Yes No 🖌
icators t <b>rictive l</b>	ayer (if observed):		Rocks				•	
icators <b>rictive l</b>	<b>.ayer (if observed):</b> Type: Depth (inches):		Rocks	-		<b>,</b>		····
rictive l	ayer (if observed): Type: Depth (inches):		Rocks 3	<u>-</u>		,		······
cators rictive l arks:	ayer (if observed): Type: Depth (inches):		Rocks 3	-		,		
cators rictive l arks:	ayer (if observed): Type: Depth (inches):		Rocks 3					
cators rictive l arks:	ayer (if observed): Type: Depth (inches):		Rocks 3	- 				
cators rictive I	ayer (if observed): Type: Depth (inches):		Rocks 3	-				
cators rictive I arks:	ayer (if observed): Type: Depth (inches):		Rocks 3					
cators rictive I arks:	ayer (if observed): Type: Depth (inches):		Rocks 3					
cators rictive I arks:	ayer (if observed): Type: Depth (inches):		Rocks 3					
cators rictive I arks:	ayer (if observed): Type: Depth (inches):		Rocks 3					
cators rictive I arks:	ayer (if observed): Type: Depth (inches):		Rocks 3					
rictive I arks:	ayer (if observed): Type: Depth (inches):		Rocks 3	-				
rictive I arks:	ayer (if observed): Type: Depth (inches):		Rocks 3	-				
icators rictive I arks:	ayer (if observed): Type: Depth (inches):		Rocks 3	- 				
irictive I	ayer (if observed): Type: Depth (inches):		Rocks 3	- 				
licators trictive I narks:	ayer (if observed): Type: Depth (inches):		Rocks 3	- 				
licators trictive I narks:	ayer (if observed): Type: Depth (inches):		Rocks 3	- 				
icators trictive I harks:	ayer (if observed): Type: Depth (inches):		Rocks 3					

Vegetation Photos



Soil Photos





Project/Site: Riverside		City/County: Chaum	iont, Jeffe	erson	Sampling Date: 2020-June-05					
Applicant/Owner: G	eronimo		State: NY				W-JJB-02_PSS-1			
Investigator(s): Jake	l	Sec	tion, Township, Ra	inge:						
Landform (hillslope, te	rrace, etc.):	Depression	Lo	cal relief	(concave, convex	, none):	Concave	Slope (%): 0 to 1		
Subregion (LRR or MLR	A): LRR I	र		Lat:	44.0537016141	Long:	-76.123600714	Datum: WGS84		
Soil Map Unit Name:	CpCovingto	on silty clay					NWI classific	cation:		
Are climatic/hydrologic	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 distu	rbed?	Are "Normal (	Circums	tances" present?	Yes 🟒 No		
Ale vegetation,	JUII,	or riyurology	_ naturany problem	iauc:	(ii needed, ex	piailiai	iy answers in Rein	ai ko.j		

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

Hydrophytic Vegetation Present?	Yes 🟒 No		
Hydric Soil Present?	Yes 🟒 No	Is the Sampled Area within a Wetland?	Yes 🟒 No _
Wetland Hydrology Present?	Yes 🟒 No	If yes, optional Wetland Site ID:	W-JJB-02
Remarks: (Explain alternative procedur	res here or in a separate rep	ort)	
Covertype is PSS.			

### HYDROLOGY

Wetland Hydrology Indicators:					
Primary Indicators (minimum of or	<u>e is required; check all that apply)</u>	<u>S</u>	Secondary Indicators (minimum of two requ	ired)	
<ul> <li> Surface Water (A1)</li> <li> High Water Table (A2)</li> <li> Saturation (A3)</li> <li> Water Marks (B1)</li> <li> Sediment Deposits (B2)</li> </ul>	Water-Stained Leaves (B9) Aquatic Fauna (B13) Marl Deposits (B15) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living	- - - Roots (C3) -	<ul> <li>Surface Soil Cracks (B6)</li> <li>Drainage Patterns (B10)</li> <li>Moss Trim Lines (B16)</li> <li>Dry-Season Water Table (C2)</li> <li>Crayfish Burrows (C8)</li> <li>Saturation Visible on Aerial Imageny (C9)</li> </ul>		
<ul> <li>Drift Deposits (B3)</li> <li>Algal Mat or Crust (B4)</li> <li>Iron Deposits (B5)</li> <li>Inundation Visible on Aerial Ima Sparsely Vegetated Concave Su</li> </ul>	<ul> <li>Presence of Reduced Iron (C4)</li> <li>Recent Iron Reduction in Tilled So</li> <li>Thin Muck Surface (C7)</li> <li>Other (Explain in Remarks)</li> </ul>	– oils (C6) _ –			
Field Observations:					
Surface Water Present?	Yes No _∠ Depth (inches):			N -	
water Table Present?	Yes No Depth (Inches):		wetland Hydrology Present? Yes	NO	
Saturation Present?	Yes 🟒 No Depth (inches):	0			
(includes capillary fringe)					
Remarks:	auge, monitoring well, aerial photos, previous insp	ections), if av			

Sampling Point: W-JJB-02\_PSS-1

Tree Stratum (Plot size: <u>30 ft</u> )	Absolute	Dominant	Indicator	Dominance Test worksho	eet:		
1 ///	10	Species:		Are OBL FACW or FAC:		4	(A)
	10	res	FACW	Total Number of Domina	ant Species		
2				Across All Strata:		5	(B)
Δ				Percent of Dominant Spe	ecies That	80	(A/R)
5		<u> </u>		Are OBL, FACW, or FAC:			(/ (/ D)
6.				Prevalence Index worksh	neet:		
7.				Total % Cover o	<u>f:</u>	Multiply	<u>By:</u>
	10	= Total Cov	er	OBL species	135	x1=	135
Sapling/Shrub Stratum (Plot size: <u>15 ft</u> )		-		FACW species	40	x2=	80
1. Cornus amomum	30	Yes	FACW	FAC species	15	×3= _	45
2. Lonicera morrowii	20	Yes	FACU	FACU species	20	×4=	80
3. Rhamnus cathartica	10	No	FAC	OPL species	0	x 5 = _	0
4. Vitis vulpina	5	No	FAC		210	(A) _	340 (B)
5.		·		Prevalence Inc	1ex = B/A =	1.6	
6.		·		Hydrophytic Vegetation	Indicators:		
7.		·		1- Rapid Test for Hy	/drophytic V	egetation/	
	65	= Total Cov	er	2 - Dominance lest	: IS >50%		
<u>Herb Stratum</u> (Plot size: <u>5 ft</u> )		-		3 - Prevalence Inde	X IS ≤ 3.0'		
1. Carex vulpinoidea	75	Yes	OBL	4 - Morphological A	soparato sh	(Provide	supporting
2. Juncus effusus	45	Yes	OBL	Problematic Hydro	nhytic Veget	tation <sup>1</sup> (Ex	nlain)
3. Typha angustifolia	15	No	OBL	<sup>1</sup> Indicators of hydric soil	and wetland	d hvdrolo	ev must be
4				present, unless disturbe	d or probler	matic	5)
5				Definitions of Vegetation	Strata:		
6				Tree – Woody plants 3 in	. (7.6 cm) or	r more in o	diameter at
7				breast height (DBH), reg	ardless of h	eight.	
8				Sapling/shrub – Woody p	olants less tl	han 3 in. D	OBH and
9				greater than or equal to	3.28 ft (1 m	) tall.	
10				Herb – All herbaceous (n	ion-woody)	plants, reg	gardless of
11				size, and woody plants le	ess than 3.2	8 ft tall.	20.6.1
12				woody vines – All woody	/ vines great	ter than 3.	28 ft in
	135	= Total Cov	er				
<u>Woody Vine Stratum</u> (Plot size: <u>30 ft</u> )				Hydrophytic Vegetation	Present?	res 🟒 N	lo
1							
2							
3							
4							
	0	= Total Cov	er				
Remarks: (Include photo numbers here or on a separate	e sheet.)						

SOIL

	Matrix		Redu	x Feat	tures				
inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texti	ure	Remarks
0 - 4	10YR 3/2	90	10YR 3/4	10	С	M/PL	Silty Clay	/ Loam	
4 - 8	10YR 4/2	90	10YR 5/6	10	С	Μ	Cla	У	
8 - 18	10YR 5/2	70	10YR 5/8	30	С	Μ	Cla	У	
		·							
		·		·					
ype: C = 0	Concentration, D =	Deplet	tion, RM = Reduce	ed Ma	trix, MS =	= Masked S	Sand Grains. <sup>2</sup> Lo	ocation: PL = Pore	Lining, M = Matrix.
dric Soil	Indicators:	<u> </u>						Indicators for Pro	oblematic Hydric Soils <sup>3</sup> :
Histoso	l (A1)		Polyvalue B	elow	Surface (	(S8) (LRR R	, MLRA 149B)	2 cm Muck (A	
_ Histic E	pipedon (A2)		Thin Dark S	urfac	e (S9) <b>(LR</b>	R R, MLRA	149B)	Coast Prairie	Redox (A16) (I RR K $\downarrow$ R)
_ Black H	istic (A3)		Loamy Muc	:ky Mi	neral (F1	) (LRR K, L)		5 cm Mucky F	Peat or Peat (S3) (LRR K. L. R)
_ Hydrog	en Sulfide (A4)		Loamy Gley	/ed M	atrix (F2)			Dark Surface	(S7) (LRR K, L)
_ Stratifie	d Layers (A5)		Depleted M	latrix	(F3)			Polyvalue Bel	low Surface (S8) <b>(LRR K, L)</b>
_ Deplete	ed Below Dark Surf	ace (A1	1) Redox Dark	Surfa	ace (F6)	7)		Thin Dark Su	rface (S9) <b>(LRR K, L)</b>
	ark Suriace (ATZ)		Depieted D	ark St	urrace (F.	()		Iron-Mangan	ese Masses (F12) <b>(LRR K, L, R)</b>
Sandy A	Aucky Mineral (S1)		Peday Dep	roccio	nc (EQ)			-	
_ Sandy N	Aucky Mineral (S1)		Redox Dep	ressic	ons (F8)			Piedmont Flo	odplain Soils (F19) (MLRA 149B)
_ Sandy M _ Sandy M _ Sandy G	Aucky Mineral (S1) Gleyed Matrix (S4)		Redox Dep	ressic	ons (F8)			Piedmont Flo Mesic Spodic	oodplain Soils (F19) <b>(MLRA 149B)</b> (TA6) <b>(MLRA 144A, 145, 149B)</b>
_ Sandy M _ Sandy ( _ Sandy F _ Sandy F	Aucky Mineral (S1) Gleyed Matrix (S4) Redox (S5)		Redox Dep	ressic	ons (F8)			Piedmont Flo Mesic Spodic Red Parent M	oodplain Soils (F19) <b>(MLRA 149B)</b> (TA6) <b>(MLRA 144A, 145, 149B)</b> Iaterial (F21)
_ Sandy M _ Sandy G _ Sandy F _ Strippe _ Dark Su	Aucky Mineral (S1) Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) <b>(J RR R )</b>	/I RA 1	Redox Dep	ressic	ons (F8)			Piedmont Flo Mesic Spodic Red Parent M Very Shallow	odplain Soils (F19) <b>(MLRA 149B)</b> (TA6) <b>(MLRA 144A, 145, 149B)</b> Material (F21) Dark Surface (TF12)
_ Sandy N _ Sandy ( _ Sandy F _ Strippe _ Dark Su	Aucky Mineral (S1) Gleyed Matrix (S4) Redox (S5) d Matrix (S6) Irface (S7) <b>(LRR R, N</b>	/ILRA 1	Redox Dep 49B)	ressic	ons (F8)			Piedmont Flo Mesic Spodic Red Parent N Very Shallow Other (Explai	odplain Soils (F19) <b>(MLRA 149B)</b> (TA6) <b>(MLRA 144A, 145, 149B)</b> Material (F21) Dark Surface (TF12) n in Remarks)
_ Sandy N _ Sandy ( _ Sandy F _ Strippe _ Dark Su	Mucky Mineral (S1) Jleyed Matrix (S4) Redox (S5) d Matrix (S6) Irface (S7) <b>(LRR R, N</b> of hydrophytic veg	ILRA 1	Redox Dep <b>49B)</b> 1 and wetland hys	ressic drolog	ons (F8) gy must l	pe present,	, unless disturbe	Piedmont Flo Mesic Spodic Red Parent M Very Shallow Other (Explai d or problematic.	oodplain Soils (F19) <b>(MLRA 149B)</b> (TA6) <b>(MLRA 144A, 145, 149B)</b> Material (F21) Dark Surface (TF12) n in Remarks)
_ Sandy N _ Sandy N _ Sandy F _ Strippe _ Dark Su ndicators estrictive	Mucky Mineral (S1) Gleyed Matrix (S4) Redox (S5) d Matrix (S6) Irface (S7) <b>(LRR R, N</b> of hydrophytic veg Layer (if observed)	ILRA 1	Redox Dep <b>49B)</b> <u>1 and wetland hy</u>	ressic drolog	ons (F8) gy must l	pe present,	, unless disturbe	Piedmont Flo Mesic Spodic Red Parent M Very Shallow Other (Explai d or problematic.	bodplain Soils (F19) <b>(MLRA 149B)</b> (TA6) <b>(MLRA 144A, 145, 149B)</b> Material (F21) Dark Surface (TF12) n in Remarks)
Sandy N Sandy R Sandy F Strippe Dark Su ndicators	Aucky Mineral (S1) Gleyed Matrix (S4) Redox (S5) d Matrix (S6) Irface (S7) <b>(LRR R, N</b> <u>of hydrophytic veg</u> Layer (if observed) Type:	ILRA 1	Redox Dep <b>49B)</b> n and wetland hy Dense clay	drolog	ons (F8) gy must l	be present,	, unless disturbe bil Present?	Piedmont Flo Mesic Spodic Red Parent M Very Shallow Other (Explai d or problematic.	odplain Soils (F19) (MLRA 149B) (TA6) (MLRA 144A, 145, 149B) Material (F21) Dark Surface (TF12) n in Remarks)
Sandy N Sandy G Sandy F Strippe Dark Su dicators strictive	Aucky Mineral (S1) Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) <b>(LRR R, N</b> of hydrophytic veg Layer (if observed) Type: Depth (inches):	ILRA 1 ;etatior :	Redox Dep 49B) n and wetland hy Dense clay 18	drolog	ons (F8) gy must l	De present, Hydric Sc	, unless disturbe bil Present?	Piedmont Flo Mesic Spodic Red Parent M Very Shallow Other (Explai d or problematic.	oodplain Soils (F19) (MLRA 149B) (TA6) (MLRA 144A, 145, 149B) Material (F21) Dark Surface (TF12) n in Remarks)
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Sandy N Sandy C Sandy F Strippe Dark Su dicators strictive	Aucky Mineral (S1) Jeyed Matrix (S4) Redox (S5) d Matrix (S6) Irface (S7) <b>(LRR R, N</b> of hydrophytic veg Layer (if observed) Type: Depth (inches):	ALRA 1 etation	Redox Dep <b>49B)</b> <u>n and wetland hy</u> <u>Dense clay</u> <u>18</u>	droloş	gy must t	be present, Hydric Sc	, unless disturbe bil Present?	Piedmont Flo Mesic Spodic Red Parent N Very Shallow Other (Explai d or problematic. Y	Aterial (F21) (MLRA 149B) (TA6) (MLRA 144A, 145, 149B) (TA6) (MLRA 144A, 145, 149B) (Aterial (F21) Dark Surface (TF12) n in Remarks)
	Aucky Mineral (S1) Jeyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) <b>(LRR R, N</b> of hydrophytic veg Layer (if observed) Type: Depth (inches):	<b>/ILRA 1</b> <u>;etatior</u> : 	Redox Dep <b>49B)</b> <u>n and wetland hyd</u> Dense clay 18	droloş	gy must l	be present, Hydric Sc	, unless disturbe bil Present?	Piedmont Flo Mesic Spodic Red Parent N Very Shallow Other (Explai d or problematic. Y	Aterial (F19) (MLRA 149B) (TA6) (MLRA 144A, 145, 149B) (Aterial (F21) Dark Surface (TF12) n in Remarks)
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Sandy N Sandy C Sandy G Strippe Dark Su dicators strictive	Aucky Mineral (S1) Jucky Mineral (S1) Jeyed Matrix (S4) Redox (S5) d Matrix (S6) Irface (S7) <b>(LRR R, N</b> of hydrophytic veg Layer (if observed) Type: Depth (inches):	/ILRA 1 getation : 	Redox Dep 49B) n and wetland hy Dense clay 18	droloş	gy must l	De present, Hydric Sc	, unless disturbe bil Present?	Piedmont Flo Mesic Spodic Red Parent M Very Shallow Other (Explai d or problematic. Y	bodplain Soils (F19) (MLRA 149B) (TA6) (MLRA 144A, 145, 149B) Material (F21) Dark Surface (TF12) n in Remarks) //es _/_ No
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Sandy N Sandy G Sandy F Strippe Dark Su dicators strictive marks:	Aucky Mineral (S1) Jucky Mineral (S1) Jeyed Matrix (S4) Redox (S5) d Matrix (S6) Irface (S7) <b>(LRR R, N</b> <u>of hydrophytic veg</u> Layer (if observed) Type: Depth (inches):	ALRA 1 setation :	Redox Dep 49B) n and wetland hy Dense clay 18	droloş	gy must t	De present, Hydric Sc	, unless disturbe bil Present?	Piedmont Flo Mesic Spodic Red Parent M Very Shallow Other (Explai d or problematic. Y	oodplain Soils (F19) (MLRA 149B) (TA6) (MLRA 144A, 145, 149B) Material (F21) Dark Surface (TF12) n in Remarks) //es No
Sandy N Sandy Q Sandy G Strippe Dark Su adicators istrictive	Aucky Mineral (S1) Jucky Mineral (S1) Jeyed Matrix (S4) Redox (S5) d Matrix (S6) Irface (S7) <b>(LRR R, N</b> <u>of hydrophytic veg</u> Layer (if observed) Type: Depth (inches):	/LRA 1 getation :	Redox Dep 49B) n and wetland hy Dense clay 18	droloį	gy must l	be present, Hydric Sc	, unless disturbe bil Present?	Piedmont Flo Mesic Spodic Red Parent M Very Shallow Other (Explai d or problematic. Y	oodplain Soils (F19) (MLRA 149B) (TA6) (MLRA 144A, 145, 149B) Material (F21) Dark Surface (TF12) n in Remarks) //es/_ No
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Sandy N Sandy C Sandy G Sandy F Dark Su Dark Su Strictive	Aucky Mineral (S1) Jleyed Matrix (S4) Redox (S5) d Matrix (S6) Irface (S7) <b>(LRR R, N</b> of hydrophytic veg Layer (if observed) Type: Depth (inches):	ALRA 1	Redox Dep 49B) n and wetland hy Dense clay 18	droloį	gy must l	be present,	, unless disturbe bil Present?	Piedmont Flo Mesic Spodic Red Parent M Very Shallow Other (Explai d or problematic. Y	oodplain Soils (F19) (MLRA 149B) (TA6) (MLRA 144A, 145, 149B) Material (F21) Dark Surface (TF12) n in Remarks) //es/_ No
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Sandy N Sandy G Sandy F Strippe Dark Su dicators strictive marks:	Aucky Mineral (S1) Jeyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) <b>(LRR R, N</b> <u>of hydrophytic veg</u> <b>Layer (if observed)</b> Type: Depth (inches):	MLRA 1 <u>setation</u>	Redox Dep 49B) n and wetland hy Dense clay 18	drolo <sub>1</sub>	gy must l	be present, Hydric Sc	, unless disturbe bil Present?	Piedmont Flo Mesic Spodic Red Parent M Very Shallow Other (Explai d or problematic. Y	oodplain Soils (F19) (MLRA 149B) (TA6) (MLRA 144A, 145, 149B) Material (F21) Dark Surface (TF12) n in Remarks) /es _∠_ No

Soil Photos



Photo of Sample Plot North



#### Photo of Sample Plot East



Photo of Sample Plot South Photo of Sample Plot West



Project/Site: Riverside	Solar	City/Col	unty: Chaumont, Jeffe	erson		Sampling Date: 2020-June-05			
Applicant/Owner: G	eronimo			State: NY		Sampling Point: W-JJB-02_UPL-1			
Investigator(s): Jake	Brillo, Ryan Sr	iow, Ben Popham	Sec	tion, Township, Ra	nge:				
Landform (hillslope, te	rrace, etc.):	Agricultural field	Local relief	(concave, convex,	none):	None	Slope (%): 0 to 1		
Subregion (LRR or MLF	RA): LRR I	2	Lat:	44.0537911747	Long:	-76.1231971253	Datum: WGS84		
Soil Map Unit Name:	Cp-Covingto	n silty clay				NWI classific	ation:		
Are climatic/hydrologic conditions on the site typical for this time of year? Yes _/ No (If no, explain in Remarks.)									
Are Vegetation,	Soil,	or Hydrology signi	ificantly disturbed?	Are "Normal C	Circums	ances" present?	Yes 🟒 No		
Are Vegetation,	Soil,	or Hydrology natu	rally problematic?	(If needed, ex	plain an	any answers in Remarks.)			

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

Hydrophytic Vegetation Present?	Yes No 🟒		
Hydric Soil Present?	Yes 🟒 No	Is the Sampled Area within a Wetland?	Yes No 🟒
Wetland Hydrology Present?	Yes No _	If yes, optional Wetland Site ID:	
Remarks: (Explain alternative procedure	s here or in a separate repo		
Covertype is UPL. Area is upland, not all	three wetland parameters a	re present. Circumstances are not normal due to a	gricultural activities.
1			

### HYDROLOGY

Wetland Hydrology Indicators:				
Primary Indicators (minimum of	one is requi	ired; check all	that apply)	Secondary Indicators (minimum of two required)
<ul> <li>Surface Water (A1)</li> <li>High Water Table (A2)</li> <li>Saturation (A3)</li> <li>Water Marks (B1)</li> <li>Sediment Deposits (B2)</li> <li>Drift Deposits (B3)</li> <li>Algal Mat or Crust (B4)</li> <li>Iron Deposits (B5)</li> <li>Inundation Visible on Aerial I</li> </ul>	magery (B7)	Waten Aquai Hydro Oxidi: Prese Recer Thin I	r-Stained Leaves (B9) cic Fauna (B13) Deposits (B15) ogen Sulfide Odor (C1) zed Rhizospheres on Living Roots ( nce of Reduced Iron (C4) nt Iron Reduction in Tilled Soils (C6) Muck Surface (C7) · (Explain in Remarks)	<ul> <li>Surface Soil Cracks (B6)</li> <li>Drainage Patterns (B10)</li> <li>Moss Trim Lines (B16)</li> <li>Dry-Season Water Table (C2)</li> <li>Crayfish Burrows (C8)</li> <li>Saturation Visible on Aerial Imagery (C9)</li> <li>Stunted or Stressed Plants (D1)</li> <li>Geomorphic Position (D2)</li> <li>Shallow Aquitard (D3)</li> <li>Microtopographic Relief (D4)</li> </ul>
Eield Observations:	Surface (B8)	)		FAC-Neutral Test (D5)
Surface Water Present?	Yes	No 🟒	Depth (inches):	
Water Table Present?	Yes	_ No 🟒	Depth (inches):	Wetland Hydrology Present? Yes No
Saturation Present?	Yes	No 🟒	Depth (inches):	
(includes capillary fringe)				
Describe Recorded Data (stream	ı gauge, moı	nitoring well,	aerial photos, previous inspections	s), if available:

Sampling Point: W-JJB-02\_UPL-1

	Absolute	Dominant	Indicator	Dominance Test works	neet:		
Tree Stratum (Plot size: <u>30 ft</u> )	% Cover	Species?	Status	Number of Dominant S	necies That		
1			Diatab	Are OBL, FACW, or FAC:		0	(A)
1				Total Number of Domir	nant Species		
2.	·			Across All Strata:		1	(B)
3.	·			Percent of Dominant S	pecies That		(1 (5)
4.				Are OBL, FACW, or FAC:		0	(A/B)
5.				Prevalence Index works	sheet:		
6				Total % Cover	of:	Multiply	<u>By:</u>
7				OBL species	0	x 1 =	0
	0	= Total Cove	er	FACW species	0	x 2 =	0
Sapling/Shrub Stratum (Plot size: <u>15 ft</u> )				FAC species	0	x 3 =	0
1				FACU species	0	x 4 =	0
2	<u> </u>			UPL species	15	x 5 =	75
3				Column Totals	15	(^)	75 (B)
4.				Brovalanco In	dov = P/A =	(~) E	75 (6)
5					IUCA - D/A -		
6.				Hydrophytic Vegetation	Indicators:		
7.				1- Rapid Test for H	lydrophytic V	/egetatior	1
	0	= Total Cove	er	2 - Dominance Tes	st is > 50%		
Herb Stratum (Plot size: 5 ft )		_		3 - Prevalence Ind	ex is $\leq 3.0^1$		
1. Zea mavs	15	Yes	UPL	4 - Morphological	Adaptations	<sup>1</sup> (Provide	supporting
2			-	data in Remarks or on a	a separate sh	neet)	
3	·			Problematic Hydr	ophytic Vege	tation <sup>1</sup> (E)	kplain)
				<sup>1</sup> Indicators of hydric so	il and wetlan	d hydrolo	gy must be
	·			present, unless disturb	ed or problei	matic	
s				Definitions of Vegetatio	on Strata:		
o	·			Iree – Woody plants 3 i	n. (7.6 cm) oi	r more in	diameter at
7	·			Contine (DBH), re	gardiess of n	eignt. han 2 in 1	
8				sapling/shrub - woody	2 20 ft (1 m	nan 3 in. i Nan 1	JBH and
9						plants ro	gardloss of
10				size and woody plants	loss than 3.2	giants, reg 8 ft tall	garuless of
11				Woody vines - All wood		tor than 3	28 ft in
12				height.	ly vines great		.2010111
	15	= Total Cove	er			/ N	
Woody Vine Stratum (Plot size: <u>30 ft</u> )				Hydrophytic vegetatio	n Present?	res r	NO
1							
2	<u> </u>						
3							
4.							
	0	= Total Cove	er				
Remarks: (Include photo numbers here or on a separa	te sheet.)			_			
······································	,						
SOIL

Index         Color (moist)         %         Color (moist)         %         Type1         Loc2         Texture         Remarks           0 - 6         10YR 3/2         98         10YR 4/4         2         C         M         Silty Clay           6 - 14         10YR 5/2         65         10YR 5/8         35         C         M         Clay	Color (moist)       %       Uprel       Loc <sup>2</sup> Texture       Remarks         0 - 6       10YR 3/2       98       10YR 4/4       2       C       M       Silly Clay	Depth	Matrix		Redox	< Feat	ures			
06       10YR 3/2       98       10YR 4/4       2       C       M       Silty Clay         6-14       10YR 5/2       65       10YR 5/8       35       C       M       Clay	06.       10/R 3/2       98.       10/R 4/4       2.       C       M       Sity Clay         614       10/R 5/2       65.       10/R 5/8       35.       C       M       Clay	(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
6 - 14       10YR 5/2       65       10YR 5/8       35       C       M       Clay	6 - 14 10YR 5/2 65 10YR 5/8 35 C M Clay 	0 - 6	10YR 3/2	98	10YR 4/4	2	С	М	Silty Clay	
ge: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains.       *Location: PL = Pore Lining, M = Matrix.         dric Soil Indicators:       Indicators for Problematic Hydric Soils*:         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, MLRA 149B)       2 cm Muck (A10) (LRR K, L, R)         Black Histic (A3)       Loamy Gleyed Matrix (F2)	ype: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains.       *Location: PL = Pore Lining, M = Matrix.         Indicators III       Indicators for Problematic Hydric Soils*.         Histissol (A1)       Polyvalue Below Surface (S3) (LRR R, MLRA 1499)         Black Hist (C43)       Loany Mucky Mineral (F1) (MR K, L)         Hydrogen Suffide (A4)       Loany Mucky Mineral (F1)         Straffied Layer; (A5)       Depleted Matrix (F2)         Jord Mucky Mineral (F1)       Depleted Matrix (F2)         Straffied Layer; (A5)       Depleted Matrix (F2)         Sandy Mucky Mineral (F1)       Red Avanty (F6)         Sandy Mucky Mineral (S1)       Red Avanty (F6)         Sandy Mucky (S5)       Mesic Spoil: (C1A) (MLRA 1449.145, 1499.0)         Sandy Mucky (S5)       Mesic Spoil: (C1A) (MLRA 1449.15)         Stripped Matrix (S6)       Bereet Matrix (S6)         Jord Sufface (S7)       Mick A10 (MLRA 1445.149.0)         Stripped Matrix (S4)       Bereet Matrix (S6)         Jord Sufface (S5)       Hearent Material (F2)         Jord Sufface (S7)       Hydro Dyric vegetation and wetland hydrology must be present, unless disturbed or problematic.         Stripped Matrix (S6)       Bereet Matrix (S6)         Deplet funches):       14         Mesic Spoil (C1A)       Hydric Soil Present?	6 - 14	10YR 5/2	65	10YR 5/8	35	С	М	Clay	
Image: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains.       *Location: PL = Pore Lining, M = Matrix.         Indicators:       Indicators:         Indicators:       Indicators:         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, MLRA 149B)         Histosol (A2)       Thin Dark Surface (S9) (LRR R, MLRA 149B)         Black Histic (A3)       Loamy Mucky Mineral (F1) (LRR K, L)         Hydrogen Sulfide (A4)       Loamy Mucky Mineral (F1) (LRR K, L)         Stratified Layers (A5)       Depleted Matrix (F2)         Depleted Below Dark Surface (A11)       Polyvalue Below Surface (F7)         Stratified Layers (A5)       Depleted Dark Surface (F7)         Sandy Mucky Mineral (F1)       Redox Depressions (F8)         Sandy Gleyed Matrix (S4)       Depleted Dark Surface (F7)         Stripped Matrix (S6)       Mexit (F2)         Dark Surface (S7) (LRR K, L, R)         Stripped Matrix (S6)       Mexit (F2)         Dark Surface (S7) (LRR R, MLRA 149B)       Mexit (F21)         Stripped Matrix (S6)       Mexit (F21)         Dark Surface (S7) (LRR R, L, R)       Red Parent Material (F21)         Stripped Matrix (S6)       Wery Shallow Dark Surface (TF12)         Dark Surface (S7) (LRR R, MLRA 149B)       Other (Explain in Remarks)         didcators of hydrophytic vegetati	ype: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains.       *Location: PL = Pore Lining, M = Matrix.         indicators:       Indicators for Problematic Hydric Solls?         Hists Capication:									
ge: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains.       *Location: PL = Pore Lining, M = Matrix.         dric Soil Indicators:       Indicators for Problematic Hydric Soils?:         Histos (A1)      Polyvalue Below Surface (S9) (LRR R, MLRA 149B)         Histos (A2)      Thin Dark Surface (S9) (LRR K, L)	ype: C = Concentration, D = Depletion, RM = Reduced Matrix, M5 = Masked Sand Grains.       Location: PL = Pore Lining, M = Matrix.         ype: C = Concentration, D = Depletion, RM = Reduced Matrix, M5 = Masked Sand Grains.       Location: PL = Pore Lining, M = Matrix.         yhitsos (M1)       Polyvalue Below Surface (S9) (RR R, MLRA 1499)       2 cm Muck (A10) (LRR K, L RA, 1405)         Histos (FA)									
ype: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. *Location: PL = Pore Lining, M = Matrix.         dric Soil Indicators:       Indicators for Problematic Hydric Soils?:         Histosol (A1)	ype: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains.       *Location: PL = Pore Lining, M = Matrix.         yrdr: Soil Indicators:       Indicators for Problematic Hydric Soils*.         Histosoi (A1)       Polyvalue Below Surface (S9) (LRR R, MLRA 1499)									
ge: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains.       ?Location: PL = Pore Lining, M = Matrix.         dric Soil Indicators:       Indicators for Problematic Hydric Soils?:         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, MLRA 149B)	ype: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. *Location: PL = Pore Lining, M = Matrix.         whick Soll Indicators:       Indicators for Problematic Hydric Soils*;        Histoic Epipedon (A2)       Thin Dark Surface (S9) (LRR R, MLRA 149B)        Back Histic (A3)      Loamy Mucky Mineral (F1) (LRR K, L)        Straffied Layers (A5)      Depleted Matrix (F2)        Depleted Below Dark Surface (A11) / C Redox Dark Surface (F6)      Depleted Dark Surface (A11) / C Redox Dark Surface (F7)        Thick Dark Surface (A11) / C Redox Dark Surface (F7)									
ype: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. <sup>2</sup> Location: PL = Pore Lining, M = Matrix.         ype: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. <sup>2</sup> Location: PL = Pore Lining, M = Matrix.         ype: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. <sup>2</sup> Location: PL = Pore Lining, M = Matrix.         ype: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. <sup>2</sup> Location: PL = Pore Lining, M = Matrix.         Histic Epipedon (A2)	ype: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains.       *Location: PL = Pore Lining, M = Matrix.         Indicators for Photomatic Hydric Soils?       Indicators for Photomatic Hydric Soils?         Histiscol (A1)       Polyvalue Below Surface (S9) (LRR R, MLRA 149B)									
ype: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. <sup>2</sup> Location: PL = Pore Lining, M = Matrix.         dric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>2</sup> :         Histosol (A1)      Polyvalue Below Surface (S8) (LRR R, MLRA 149B)      2 cm Muck (A10) (LRR K, L, MLRA 149B)         Histosol (A2)      Thin Dark Surface (S9) (LRR R, MLRA 149B)      2 cm Muck (A10) (LRR K, L, R)         Black Histic (A3)      Loamy Mucky Mineral (F1) (LRR K, L)      S cm Mucky Peat or Peat (S3) (LRR K, L, R)         Stratified Layers (A5)      Depleted Matrix (F3)      Dorlyalue Below Surface (S8) (LRR K, L)         Depleted Below Dark Surface (A11)      Redox Dark Surface (F7)      Thin Dark Surface (S9) (LRR K, L)         Sandy Mucky Mineral (S1)      Redox Depressions (F8)	ype: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains.       *Location: PL = Pore Lining, M = Matrix.         rdic Soil Indicators       Indicators for Problematic Hydric Soils?         Histos Dipedon (A2)       Thin Dark Surface (S9) (LRR R, MLRA 1499)       _2 cm Muck y Along (LR R, L, NL RA 1498)         Black Histic (A3)       Loamy Mucky Mineral (F1) (LRR K, L)       _S cm Mucky Peat or Peat (S3) (LRR K, L R)         Stratified Layers (A5)       Z Depleted Matrix (F2)       _D ark Surface (S3) (LRR K, L R)									
pre: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. <sup>2</sup> Location: PL = Pore Lining, M = Matrix.         dric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histic Epipedon (A2)       Thin Dark Surface (S9) (LRR R, MLRA 149B)	ype: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains.       flocation: PL = Pore Lining, M = Matrix.         Indicators:       Indicators:       Indicators for Problematic Hydric Solis*:         Histosol (A1)								-	
ype: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains.       ?Location: PL = Pore Lining, M = Matrix.         indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)	ype: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. <sup>2</sup> Location: PL = Pore Lining, M = Matrix. Histosol Indicators for Poblematic Hydric Solis?: Histosol (A1) Polyvalue Below Surface (S9) (LRR R, MLRA 1498) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) Black Histic (A3) Depleted Matrix (F3) Depleted Below Dark Surface (A11) Redox Depressions (F8) Sandy Mucky Mineral (S1) Redox Depressions (F8) Sandy Redox (S5) Head Dark Surface (F7) Dark Surface (S7) (LRR K, L R) Sandy Redox (S5) Redox Depressions (F8) Head Matrix (S4) Dark Surface (S7) (LRR K, MLRA 1498) Head Matrix (S4) Sandy Redox (S5) Red methan hydrology must be present, unless disturbed or problematic. strictive Layer (ff observed): Type: Hardpan Hydric Soil Present? Yes No Depth (inches): Hardpan Hydric Soil Present? Yes No									
r/pe: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. <sup>2</sup> Location: PL = Pore Lining, M = Matrix.         dric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         _Histos (A1)      Polyvalue Below Surface (S8) (LRR R, MLRA 149B)         _Black Histic (A3)      Loamy Mucky Mineral (F1) (LRR K, L)         _Hydrogen Sulfide (A4)      Loamy Gleyed Matrix (F2)         _Stratified Layers (A5)      Depleted Matrix (F3)         _Depleted Below Dark Surface (A11)       _ Redox Dark Surface (F6)         _Thick Dark Surface (A12)      Depleted Dark Surface (F7)         _Sandy Mucky Mineral (S1)      Redox Depressions (F8)         _Sandy Redox (S5)      Depleted Matrix (S4)         _Sandy Redox (S5)      Mext 149B)         _Stratified Layer (if observed):      Wers MLRA 149B)        Tripe:      Hardpan        Mydric Soil Present?       YesNo	ype: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains, ZLocation: PL = Pore Lining, M = Matrix. whic Soil Indicators: Histos Soil (A1) Polyvalue Below Surface (S8) (LRR R, MLRA 1498) 2 cm Muck (A10) (LRR K, L MLRA 1498) 2 cm Muck (A10) (LRR K, L R, L) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Stratified Layers (A5) Depleted Matrix (F2) Depleted Below Dark Surface (F6) Thin Dark Surface (F7) Thin Dark Surface (F7) Thin Dark Surface (F2) (LRR K, L, R) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Thin Dark Surface (S5) Peidmont Floodplain Soils (F19) (MLRA 1498) Very Shallow Dark Surface (S12) (LRR K, L R) Sandy Mucky Mineral (S1) Redox Depressions (F8) Feidmont Floodplain Soils (F19) (MLRA 1449, 145, 1498) Other (Explain in Remarks) dictators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. strictive Layer (f Observed): Type: Hardpan Hydric Soil Present? Yes No Depletion marks: il significantly disturbed as a result of tilling.					·				
type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. 4Location: PL = Pore Lining, M = Matrix.   dric Soil Indicators: Indicators for Problematic Hydric Soils?:   Histos (A1)Polyvalue Below Surface (S8) (LRR R, MLRA 149B)   Black Histic (A3)Loamy Mucky Mineral (F1) (LRR K, L)   Hydrogen Sulfide (A4)Loamy Gleyed Matrix (F2)   Stratified Layers (A5)Depleted Matrix (F3)   Depleted Below Dark Surface (A11) Redox Dark Surface (F6)   Thick Dark Surface (A12)Depleted Dark Surface (F7)   Sandy Gleyed Matrix (S4)Redox Depressions (F8)   Sandy Redox (S5)Redox Depressions (F8)  Stripped Matrix (S6)Red Parent Material (F12)	ype: L = Concentration, D = Depletion, MM = Reduced Matrix, Ms = Masked Sand Grains, 4-docation: PL = Pore Lining, M = Matrix, Histosol (A1)Polyvalue Below Surface (S8) (LRR R, MLRA 149B) Histic Epipedon (A2)Thin Dark Surface (S8) (LRR R, MLRA 149B) Histic Epipedon (A2)Thin Dark Surface (S8) (LRR K, L) Lydrogen Suffice (A3)Depleted Matrix (F2) Stratified Layers (A5)Depleted Matrix (F3) Depleted Below Dark Surface (A1)Redox Dark Surface (F6) Thic Dark Surface (A1)Redox Depressions (F8) Sandy Gleyed Matrix (S6) Sandy Gleyed Matrix (S6)Seed Matrix (S6) Dark Surface (S7) (LRR K, L, R) Derk Surface (S7) (LRR K, LAR, 149B) Mesic Spodic (TA6) (MLRA 144B, 145, 149B) Mesic Spodic (TA6)									
dric Soil indicators:	rdrc Soil Indicators:       Indicators:       Indicators:         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, MLRA 149B)       2 cm Muck (A10) (LRR K, L, MLRA 149B)         Histic Epipedon (A2)       Thin Dark Surface (S9) (LR R, NLRA 149B)       Coast Praite Redox (A16) (LRR K, L, R)         Black Histic (A3)       Loamy Mucky Mineral (F1) (LRR K, L)       Sm Mucky Peat or Peat (S3) (LRR K, L, R)	ype: $C = C$	oncentration, D =	Deplet	ion, RM = Reduce	d Mat	rix, MS =	Masked	Sand Grains. <sup>2</sup> L	ocation: PL = Pore Lining, M = Matrix.
Instruct Spie (A1)	Instead (A10) (LRR K, L, MLRA 149B) Histic Epipedon (A2) Histic Epipedon (A2) Black Histic (A3) Loarny Mucky Mineral (F1) (LRR K, L) Loarny Mucky Mineral (F1) (LRR K, L) Strattifed Layers (A5) C pepteted Matrix (F3) Depteted Matrix (F3) Sandy Mucky Mineral (F1) Sandy Gleyed Matrix (S4) Sandy Gleyed Matrix (S5) Stripped Matrix (S5) Dark Surface (S7) (LRR R, MLRA 149B) Hydric Soil Present? Type: Hardpan Hydric Soil Present? Yes No Depth (inches): 14 Hydric Soil Present? C Muck (A10) (LRR K, L) C Mucky Peat or Peat (S3) (LRR K, L) C Mucky Peat or Peat (S3) (LRR K, L, R) Coast Prairie Redox (A16) (LRR K, L, R) Deptet Cast Surface (A11) Redox Depted Dark Surface (F7) Sandy Mucky Mineral (S1) Redox Depressions (F8) Red Parent Material (F21) Very Shallow Dark Surface (F12) Other (Explain in Remarks) dicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. strictic Layer (If observed): Type: Hardpan Hydric Soil Present? Yes No Depth (inches): 14	aric Soil	Indicators:		Dobardure D		urfass (	0) /I DD		indicators for Problematic Hydric Soils <sup>3</sup> :
Black Histic (A3)		Histic Fr	n (AL) Dipedon (A2)		Thin Dark S	rface	ouriace (S 6 (S9) <b>(I P</b>	R. MIP	r, IVILKA 149B) A 149B)	2 cm Muck (A10) (LRR K, L, MLRA 149B)
Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2)   Stratified Layers (A5) Depleted Matrix (F3)   Depleted Below Dark Surface (A11) Redox Dark Surface (F6)   Thick Dark Surface (A12) Depleted Dark Surface (F7)   Sandy Mucky Mineral (S1) Redox Depressions (F8)   Sandy Gleyed Matrix (S4) Mesic Spodic (TA6) (MLRA 144A, 145, 149B)   Sandy Redox (S5) Red Parent Material (F21)   Other (Explain in Remarks)   dicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.   strictive Layer (if observed):   Type:   Hardpan   Depth (inches):   14	Hydrogen Sulfide (A4)       Loamy Gleyed Matrix (F2)       Drk Surface (57) (LRR K, L)         Stratified Layers (A5)       Depleted Bdartix (F3)       Delyvalue Below Surface (S8) (LRR K, L)         Depleted Bdew Dark Surface (A11) Redox Depressions (F8)       Tinn Dark Surface (S9) (LRR K, L, R)         Sandy Mucky Mineral (S1)       Redox Depressions (F8)       Iron-Manganese Masses (F12) (LRR K, L, R)         Sandy Redox (S5)       Redox Depressions (F8)       Nesic Spodic (TA6) (MLRA 1449, 145, 149B)         Sandy Redox (S5)	_ Black Hi	istic (A3)		Loamy Muc	ky Mir	neral (F1)	(LRR K, I	L)	Coast Prairie Redox (A16) (LRR K, L, R)
Stratified Layers (A5)       ✓ Depleted Matrix (F3)       □ Dolyvalue Below Surface (S7) (LRR K, L)         Depleted Below Dark Surface (A11) ✓ Redox Dark Surface (F6)       □ Thin Dark Surface (S9) (LRR K, L)         Thick Dark Surface (A12)       □ Depleted Dark Surface (F7)       □ Iron-Manganese Masses (F12) (LRR K, L, R)         Sandy Mucky Mineral (S1)       □ Redox Depressions (F8)       □ Piedmont Floodplain Soils (F19) (MLRA 149B)         Sandy Redox (S5)       □ Mesic Spodic (TA6) (MLRA 144A, 145, 149B)       □ Very Shallow Dark Surface (TF12)         Stripped Matrix (S6)       □ Very Shallow Dark Surface (TF12)       □ Other (Explain in Remarks)         dicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.       Strictive Layer (if observed):       Yes _/ No         Type:       Hardpan       Hydric Soil Present?       Yes _/ No       No         Isignificantly disturbed as a result of tilling.       14       Mexic Soil Present?       Yes _/ No	Stratified Layers (A5) Depleted Matrix (F3) Dolk Surface (F3) (LRK K, L) Depleted Below Surface (A11) Redox Dark Surface (F6) Thin Dark Surface (S8) (LRK K, L) Ton-Manganese Masses (F12) (LRK K, L, R) Perdemone Floodplain Solis (F19) (MLRA 1498) Perdemone Floodplain Solis (F19) (MLRA 1448, 145, 149B) Perdemone Floodplain Solis (F19) (MLRA 1448) Perdemone Floodplain Solis (F19) (MLRA 1448) Perdemone Floodplain Solis (F19) (MLRA 1448) Perdemone Floodplain Solis (F19) (MLRA 1448, 145, 149B) Perdemone Floodplain Solis (F19) (MLRA 1448, 145, 149B)	_ _ Hydroge	en Sulfide (A4)		Loamy Gley	ed Ma	itrix (F2)	. ,		5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
Depleted Below Dark Surface (A11) Redox Dark Surface (F6)   Thick Dark Surface (A12) Depleted Dark Surface (F7)   Sandy Mucky Mineral (S1) Redox Depressions (F8)   Sandy Gleyed Matrix (S4) Piedmont Floodplain Soils (F19) (MLRA 149B)   Sandy Redox (S5) Mesic Spodic (TA6) (MLRA 144A, 145, 149B)   Stripped Matrix (S6) Red Parent Material (F21)   Dark Surface (S7) (LRR R, MLRA 149B) Very Shallow Dark Surface (TF12)   dicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.   strictive Layer (if observed):   Type:   Marks:	Depleted Below Dark Surface (A11) Redox Dark Surface (F6)	_ Stratifie	d Layers (A5)		_∕_ Depleted M	atrix (	F3)			Polyvalue Below Surface (S8) (I RR K. I.)
Thick Dark Surface (A12)	Thick Dark Surface (A12)Depleted Dark Surface (F7)Iron-Manganese Masses (F12) (LRR K, L, R)Sandy Mucky Mineral (S1)Redox Depressions (F8)Piedmont Floodplain Soils (F19) (MLRA 149B)Mesic Spodic (TA6) (MLRA 144B)Mesic Spodic (TA6) (MLRA 144B)Ned Variate (S7) (LRR R, MLRA 149B)Red Parent Material (F21)Very Shallow Dark Surface (TF12)Other (Explain in Remarks) dicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. strictive Layer (if observed):NedHydric Soil Present? YesNo Depth (inches):14Hydric Soil Present? YesNo i significantly disturbed as a result of tilling.	_ Deplete	d Below Dark Surfa	ace (A1	1)_✓ Redox Dark	Surfa	ce (F6)			Thin Dark Surface (S9) (LRR K, L)
		_ Thick Da	ark Surface (A12)		Depleted Da	ark Su	rface (F7	)		Iron-Manganese Masses (F12) (LRR K, L, R)
		_ Sandy N	Aucky Mineral (ST)		Redox Depr	essioi	1S (F8)			Piedmont Floodplain Soils (F19) (MLRA 149B)
		Sandy G	Peday (S5)							Mesic Spodic (TA6) <b>(MLRA 144A, 145, 149B)</b>
		Strinner	d Matrix (S6)							Red Parent Material (F21)
Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.       strictive Layer (if observed):       Type:       Hardpan       Depth (inches):       14   marks: il significantly disturbed as a result of tilling.		Dark Su	urface (S7) <b>(LRR R, N</b>	ILRA 1	49B)					Very Shallow Dark Surface (TF12)
idicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.         strictive Layer (if observed):         Type:       Hardpan         Depth (inches):       14         marks:         il significantly disturbed as a result of tilling.	Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.         Instrictive Layer (if observed):         Type:       Hardpan         Depth (inches):       14         Imarks:         iil significantly disturbed as a result of tilling.									Other (Explain in Remarks)
strictive Layer (if observed):       Type:       Hardpan       Hydric Soil Present?       Yes _✓_ No         Depth (inches):       14       Marks:       Il significantly disturbed as a result of tilling.	It is it is it is it is it if it is	ndicators	of hydrophytic veg	etatior	n and wetland hyd	Irolog	y must b	e preser	nt, unless disturbe	d or problematic.
Type:     Harapan       Depth (inches):     14       marks:       il significantly disturbed as a result of tilling.	Ippe:     Hardpan       Depth (inches):     14   emarks:       iil significantly disturbed as a result of tilling.	estrictive	Layer (if observed):		l la value a v			L L L L L L L L L	Call Day and 2	Yes ( No
marks: il significantly disturbed as a result of tilling.	peptr (inches): 14		Type:		Hardpan	•		Hydric	Soll Present?	Yes No
marks: il significantly disturbed as a result of tilling.	in significantly disturbed as a result of tilling.		Depth (Inches):		14					
il significantly disturbed as a result of tilling.	il significantly disturbed as a result of tilling.	marks:								
		oil signific	antly disturbed as	a resul	t of tilling.					

Vegetation Photos



Soil Photos



Photo of Sample Plot North



Photo of Sample Plot East

## WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Riverside Solar	City/County: Chaumo	ont, Jefferson	Sampling Date: 202	20-June-05
Applicant/Owner: Geronimo		State: NY	Sampling Point: W-JJE	3-11_PEM-2
Investigator(s): Jake Brillo, Ryan Sno	ow, Ben Popham	Section, Township, Range:		
Landform (hillslope, terrace, etc.):	Cleared ag Field Loc	al relief (concave, convex, none)	: None	Slope (%): 0 to 1
Subregion (LRR or MLRA): LRR R		Lat: 44.0595232745 Long	: -76.1245015053	Datum: WGS84
Soil Map Unit Name: KgAKingsbur	ry silty clay, 0 to 2 percent slopes		NWI classificatio	n:
Are climatic/hydrologic conditions on	the site typical for this time of year?	Yes 🟒 No (If r	no, explain in Remarks.)	
Are Vegetation, Soil, c	or Hydrology significantly disturl	oed? Are "Normal Circum	stances" present?	Yes 🟒 No
Are Vegetation, Soil, c	or Hydrology naturally problema	atic? (If needed, explain a	ny answers in Remarks.	.)

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

Hydrophytic Vegetation Present?	Yes No										
Hydric Soil Present?	Yes 🟒 No	Is the Sampled Area within a Wetland?	Yes 🯒 No								
Wetland Hydrology Present?	Yes 🟒 No	lf yes, optional Wetland Site ID:	W-JJB-11								
Remarks: (Explain alternative procedures here or in a separate report)											
Covertype is PEM. Circumstances are not normal due to agricultural activities.											

#### HYDROLOGY

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

VEGETATION -- Use scientific names of plants.

Sampling Point: W-JJB-11\_PEM-2

Tree Stratum (Plot size: <u>30 ft</u> )	Absolute % Cover	Dominant	Indicator	Dominance Test worksh	neet:		
1	70 00001	Species:	Jtatus	Are OBL. FACW. or FAC:	pecies mac	3	(A)
1		·		Total Number of Domin	ant Species		
2.		·		Across All Strata:		3	(B)
3.				Percent of Dominant Sp	pecies That	100	(4 (D)
4		·		- Are OBL, FACW, or FAC:		100	(A/B)
5		<u> </u>		Prevalence Index works	heet:		
b				- Total % Cover	of:	Multiply	<u>By:</u>
7				- OBL species	35	x 1 =	35
	0	= lotal Cov	er	FACW species	30	x 2 =	60
<u>Sapling/Shrub Stratum</u> (Plot size: <u>15 ft</u> )				FAC species	10	x 3 =	30
1				- FACU species	0	x 4 =	0
2				- UPL species	0	x 5 =	0
3				- Column Totals	75	(A)	125 (B)
4				- Prevalence In	dex = B/A =	1.7	- ( )
5		. <u> </u>		Hydrophytic Vegetation	Indicators:		
6				- 1- Rapid Test for H	lvdronhvtic V	/egetation	
7				- 2 - Dominance Tes	t is $>50\%$	egetation	
	0	= Total Cov	er	2 Bornhance res	$e_{\rm X}$ is < 3 $0^1$		
<u>Herb Stratum</u> (Plot size: <u>5 ft</u> )				4 - Morphological	Adaptations <sup>1</sup>	(Provide)	sunnorting
1. <i>Carex scoparia</i>	30	Yes	FACW	- data in Remarks or on a	a separate sh	(Frovide )	supporting
2. <i>Carex vulpinoidea</i>	20	Yes	OBL	Problematic Hydro	ophytic Vege	tation <sup>1</sup> (Ex	plain)
3. Juncus effusus	15	Yes	OBL	<sup>1</sup> Indicators of hydric soi	and wetlan	d hydrolog	zv must be
4. Euthamia graminifolia	10	No	FAC	present, unless disturbe	ed or probler	matic	5,
5.				Definitions of Vegetatio	n Strata:		
6.				Tree – Woody plants 3 i	n. (7.6 cm) or	r more in o	diameter at
7.				breast height (DBH), reg	gardless of h	eight.	
8.				Sapling/shrub - Woody	plants less t	han 3 in. D	BH and
9.				greater than or equal to	o 3.28 ft (1 m	) tall.	
10.				Herb – All herbaceous (	non-woody)	plants, reg	ardless of
11.				size, and woody plants	less than 3.2	8 ft tall.	
12.				Woody vines – All wood	ly vines great	ter than 3.	28 ft in
	75	= Total Cov	er	height.			
Woody Vine Stratum (Plot size: 30 ft )		-		Hydrophytic Vegetation	n Present?	/es 🟒 N	o
1							
2				-			
2.				-			
				-			
4		- Total Cou		-			
	0		ei				
Remarks: (Include photo numbers here or on a separa	te sheet.)						

SOIL

Color (moist)         %         Color (moist)         %         Type1         Loc2         Texture         Remarks           0-2         10/R 3/3         100         10/R 6/8         30         C         M         Clay	Depth	Matrix		Redo	x Feat	ures	marcato		
0.2.18         1097.8.2/3         100	inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
2-18         10YR 5/1         60         10YR 6/8         30         C         M         Clay           2-18         10YR 4/1         10         D         M         Clay	0 - 2	10YR 3/3	100					Loam	
2-18       10YR 4/1       10       D       M       Clay         2-18       10YR 4/1       10       D       M       Clay         get C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains.       *Location: PL = Pore Lining, M = Matrix.         Indicators III       Polyvalue Below Surface (SS) (LRR R, MLRA 1498)       Indicators for Problematic Hydric Solis*.         Histoc (A1)       Polyvalue Below Surface (SS) (LRR R, MLRA 1498)       Coast Prairie Redox (A16) (LRR K, L, R)         Hydrogen Suffide (A2)       Loamy Oleyed Matrix (F3)       Doark Surface (S7) (LRR K, L)         Stratified Layers (A5)       2 Depleted Datrix (F3)       Depleted Matrix (F3)         Sondy Micky Mineral (S1)       Peleted Natrix (F3)       Polyvalue Below Sarface (S9) (LRR K, L)         Sandy Bidey Matrix (S6)	2 - 18	10YR 5/1	60	10YR 6/8	30	С	М	Clay	
ge: C = Concentration, D = Depletion, RM = Reduced Marks, MS = Masked Sand Grains.       *Location: PL = Pore Lining, M = Matrix.         drfc Soll Indicators:       Indicators for Problematic Hydric Solls?         Hists: Epigedon (A2)       Thin Dark Surface (Si) (LRR R, MLRA 1498)	2 - 18			10YR 4/1	10	D	M	Clay	
ge: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains, 2Location, PL = Pore Lining, M = Matrix,         indicators tor problematic Hydric Solist;         Histisco (A1)       Polyvalue Below Surface (S9) (LRR R, MLRA 1496)		-		-					
pp: (2 = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains.       *Location: PL = Pore Lining, M = Matrix.         idicators:       Indicators for Problematic Hydric Soils*.         Hists Coli Indicators:       Indicators for Problematic Hydric Soils*.         Hists Coli Indicators:       Indicators for Problematic Hydric Soils*.         Hists Coli On(A2)       — Thin Dark Strafee (S) (LRR R, MLRA 1499)       — Coast Prairie Redox (A16) (LRR K, L, R)         Black Histic (A3)       — Loamy Mucky Mineral (F) (LRR K, L)       — Sor Muck (A10) (LRR K, L, R)         Stratified Blaw Dark Surface (S1)       — Redox Dark Surface (S3) (LRR K, L)       — Depleted Matrix (F3)         Depleted Matrix (F3)       — Depleted Dark Surface (F7)       — Thin Dark Surface (S3) (LRR K, L)       — Thin Dark Surface (S3) (LRR K, L)         Sandy Mucky Mineral (S1)       _ Redox Depressions (F8)       _ Pledmont Floadplain Soils (F19) (MLRA 1498)		-		-					
ype: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains.       *Location: PL = Pore Lining, M = Matrix.         Indicators for Problematic Hydris Soils*.       Indicators for Problematic Hydris Soils*.         Histosol (A1)       Polyvalue Below Surface (S3) (LRR R, MLRA 149B)       Coast Prairie Redox (A16) (LRR K, L R)         Histosoper Suffide (A4)       Loamy Gleyed Matrix (F2)       Dark Surface (S7) (LRR K, L)         Stratified Layers (A5)       Z Depleted Matrix (F2)       Dark Surface (S7) (LRR K, L)         Stratified Layers (A5)       Z Depleted Dark Surface (F6)       Thin Dark Surface (S1) (LRR K, L)         Thick Dark Surface (A11)       Redox Dark Surface (F7)       Hord Material (F2)         Sandy Micky Mineral (F3)       Depleted Matrix (F3)       Polyvalue Below Surface (S8) (LRR K, L)         Sandy Micky Mineral (F1)       Redox Dark Surface (F7)       Into Dark Surface (S7) (LRR K, L)         Sandy Gleyed Matrix (S6)       Poletometatic Material (F21)       WLRR 144A, 145, 145)         Stripped Matrix (S6)       Red Parent Material (F21)       Other (Explain in Remarks)         dicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.       Strifue Layer (If observed);         Type:       None       Hydric Soil Present?       Yes _ No         Depth (inches):       mone       Hydric Soil Present?       Yes _ No									
ype: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains.       *Location: PL = Pore Lining, M = Matrix.         tric Soil Indicators:       Indicators for Problematic Hydric Soils?.         Histos (A1)       Polyvalue Below Surface (S8) (LRR R, MLRA 199B)       2 cm Muck (A10) (LRR K, L, R)         Black Histic (A2)       Thin Dark Surface (S17) (LRR K, L, R)       2 cm Muck (A10) (LRR K, L, R)         Straffied Layers (A5)       Z Depleted Matrix (F2)       Dark Surface (S7) (LRR K, L, R)         Depleted Below Dark Surface (S11)       Redox Depressions (F8)       Polyvalue Below Surface (F7)         Thin Dark Surface (S11)       Redox Depressions (F8)       Poledmont Floodplain Soils (F19) (LRR K, L, R)         Sandy Mucky (Minerai (S1)       Redox Depressions (F8)       Pelemont Floodplain Soils (F19) (LRR K, L, R)         Sandy Redox (S5)       Red Parent Materiai (F21)       Thin Dark Surface (S12) (LRR K, L, R)         Sardy Redox (S5)       Red Parent Materiai (F21)       Other (Explain in Remarks)         dicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.       strictive Layer (f observed);         Type:       None       Hydric Soil Present?       Yes No         Depth (inches):       marks:       Hydric Soil Present?       Yes No									
ge: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains.       *Location: PL = Pore Lining, M = Matrix.         Histosol (A1)									
ype: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains.       *Location: PL = Pore Lining, M = Matrix.         Indicators for Poblematic Hydric Solis*:       Indicators for Poblematic Hydric Solis*:         Histic Epipedon (A2)       Thin Dark Surface (S9) (LRR R, MLRA 1498)									
ype: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains.       2Location: PL = Pore Lining, M = Matrix.         indicators:       Indicators:       Indicators (SR) (IRR R, MLRA 1498)       2 cm Muck (A10) (LRR K, L, MLRA 1498)         Histic Epipedon (A2)       Thin Dark Surface (S9) (LRR R, MLRA 1498)       2 com Muck (A10) (LRR K, L, R)         Black Histic (A3)       Loamy Mucky Mineral (F1) (LRR K, L)       5 cm Mucky Paet or Peet (S3) (LRR K, L, R)         Stratified Layers (A5)       Z Depleted Matrix (F2)       Dark Surface (S7) (LRR K, L)         Stratified Layers (A5)       Z Depleted Matrix (F2)       Dark Surface (S1) (LRR K, L)         Sandy Mucky Mineral (S1)       Redox Dark Surface (F7)       Thin Dark Surface (S1) (LRR K, L)         Sandy Gleyed Matrix (S4)       Piedmont Floodplain Solis (F19) (MLRA 1498)       Piedmont Floodplain Solis (F19) (MLRA 1498)         Sandy Mucky Mineral (S1)       Redox Depressions (F8)       Very Shallow Dark Surface (S7) (LRR K, L)         Stripped Matrix (S6)       Very Shallow Dark Surface (S7) (LRA K, LA 145, 1498)       Very Shallow Dark Surface (S7) (LRA K, LA 145, 1498)         Gleators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.       Stripped Matrix (S4)       Other (Explain in Remarks)         dicators of hydrophytic vegetation and wetland hydrology must be present?       Yes _< No									
gree: Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains.       *Location: PL = Pore Lining, M = Matrix.         dric Soll Indicators:       Indicators for Problematic Hydric Soils*:         Histosol (A1)									
pre: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains.       -Location: PL = Pore Lining, M = Matrix.         Irdicators:       Indicators:       Indicators:         Histosol (A1)       Polyvalue Below Surface (S9) (LRR R, MLRA 149B)       2 crm Muck (A10) (LRR K, L, MLRA 149B)         Black Histic (A3)       Loamy Mucky Mineral (F1) (LRR K, L)       2 crm Mucky Peat or Peat (S3) (LRR K, L, R)         Pydrogen Suifface (A4)       Loamy Gleved Matrix (F2)       5 crm Mucky Peat or Peat (S3) (LRR K, L)         Stratified Layers (A5)       Depleted Matrix (F3)       Polyvalue Below Surface (S3) (LRR K, L)         Depleted Below Dark Surface (A11)       Redox Dark Surface (F7)       Thin Dark Surface (F7)         Sandy Mucky Mineral (S1)       Redox Depressions (F8)       Piedmont Floodpialm Soils (F19) (MLRA 149B)         Sandy Redox (S5)       Bedox Depressions (F8)       Piedmont Floodpialm Soils (F19) (MLRA 149B)         Strictive Layer (if observed):       Very Shallow Dark Surface (T2)       Other (Explain in Remarks)         dicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.       strictive Layer (No         Type:       None       Hydric Soil Present?       Yes _ No         Depletin (inches):       mone       Hydric Soil Present?       Yes _ No									
dic Soil Indicators:       Polyvalue Below Surface (S8) (LRR R, MLRA 1498)         Histos Epipedon (A2)       Thin Dark Surface (S9) (LRR K, L19)         Black Histic (A3)       Loamy Mucky Mineral (F1) (LRR K, L)         Hydrogen Sulfide (A4)       Loamy Gleyed Matrix (F2)         Depleted Below Dark Surface (A11)       Red X Dark Surface (F6)         Startified Layers (A5)       Depleted Matrix (F2)         Sandy Mucky Mineral (F1)       Red X Dark Surface (F7)         Sandy Gleyed Matrix (S4)       Redox Depressions (F8)         Sandy Redox (S5)       Red Parent Material (F21)         Stripped Matrix (S6)       Red Parent Material (F21)         Dark Surface (T1/LS)       Red Parent Material (F21)         Stripped Matrix (S6)       Red Parent Material (F21)         Dark Surface (T1/LS)       Red Parent Material (F21)         Stripped Matrix (S6)       Wetry for Soil Present?         Ype:       None         Depth (inches):       None         Depth (inches):       None         Marks:       Hydric Soil Present?       Yes No	$v_{\text{De: C}} = C$	oncentration. D =	Depleti	on. RM = Reduce	d Mat	rix. MS =	Masked	Sand Grains, 2	ocation: PL = Pore Lining, M = Matrix
Histosol (A1) Polyvalue Below Surface (S9) (LRR R, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Histosol (A3) Loamy Gleyed Matrix (F2) Dark Surface (S7) (LRR K, L) So TM Lck (Part C) (LRR K, L, R) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Dark Surface (S7) (LRR K, L) Dark Surface (S7) (LRR K, L) Dark Surface (S9) (LRR K, L) Depleted Bolow Dark Surface (S9) (LRR K, L) Dark Surface (S9) (LRR K, L) Depleted Dark Surface (F7) Thin Dark Surface (F7) Thin Dark Surface (S9) (LRR K, L) In Dark Surface (F7) Thin Dark Surface (S9) (LRR K, L) In Orw Manganese Masses (S12) (MLRA 149B) Sandy Gleyed Matrix (S4) Red Parent Material (F21) Weis: Spodic (TA6) (MLRA 144A, 145, 149B) Mexic Spodic (TA6) (MLRA 144A, 145, 149B) Crew for the (Explain in Remarks) dicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. strictive Layer (if observed): Type: None Hydric Soil Present? Yes No Depth (inches): marks:	dric Soil	Indicators:	Depicti	on, nur neudee	amac	11,7,1113	musiceu		Indicators for Problematic Hydric Soils <sup>3</sup>
Instruction (A2)     Init Dark Surface (S9) (LRR k, LMLRA 1499)     Coast Painter Redox (A10) (LRR k, L, R)     Black Histic (A3)     Loamy Mucky Mineral (F1) (LRR k, L)     Stratified Layers (A5)     Depleted Matrix (F2)     Depleted Below Dark Surface (A11)     Redox Dark Surface (F6)     Thin Dark Surface (A2)     Sandy Gleyed Matrix (S4)     Sandy Gleyed Matrix (S5)     Stripped Matrix (S5)     Stripped Matrix (S5)     Stripped Matrix (S5)     Stripped Matrix (S6)     Dark Surface (S7) (LRR R, MLRA 1498)     dicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.     strictive Layer (If observed):     Type: None     Depth (inches):     Mone     Depth (inches):     Mone     Depth (inches):     Dept	Histosol	(A1)		Polyvalue Be	alow S	Surface (S	(I RR I	R MI RA 149B)	
Black Histic (A3)       Loamy Mucky Mineral (F1) (LRR K, L)	Histic Er	pipedon (A2)		Thin Dark Su	urface	(S9) (LRF	R. MLR	A 149B)	2 cm Muck (A10) (LRR K, L, MLRA 149B)
Llydrogen Sulfide (A4)      Loamy Gleyed Matrix (F2)      Dark Or Pear OF Pear	_ Black Hi	stic (A3)		Loamy Mucl	ky Mir	neral (F1)	(LRR K, L	.)	E cm Mucky Deat or Deat (S2) (LRR K, L, R)
Stratified Layers (A5) Depleted Matrix (F3) Dolk Soffice(58) (LRR K, L) Depleted Below Dark Surface (A11 Redox Dark Surface (F6) Thin Dark Surface (S9) (LRR K, L) Sandy Mucky Mineral (S1) Redox Depressions (F8) Piedmont Floodplain Solis (F19) (MLRR 1498) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) dicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. strictive Layer (if observed): Type: None Hydric Soil Present? Yes No Depth (inches): marks:	_ Hydroge	en Sulfide (A4)		Loamy Gleye	ed Ma	trix (F2)			Dark Surface (S7) (I PP K 1)
Depleted Below Dark Surface (A11) Redox Dark Surface (F6)	_ Stratifie	d Layers (A5)		Depleted Ma	atrix (	F3)			Polyvalue Below Surface (S8) (I RR K 1)
Thick Dark Surface (A12)Depleted Dark Surface (F7) Inno-Manganese Masses (F12) (LRR K, L, R) Sandy Mucky Mineral (S1) Redox Depressions (F8) Inno-Manganese Masses (F12) (LRR K, L, R) Sandy Redox (S5) Redox Depressions (F8) Mesic Spoolic (TA6) (MLRA 149B) Sandy Redox (S5) Redox Depressions (F8) Mesic Spoolic (TA6) (MLRA 1449B) Sardy Redox (S5) Redox Depressions (F8) Redox Depressions (F8) Redox Depressions (F8) Mesic Spoolic (TA6) (MLRA 1449B) Mesic Spoolic (TA6) (MLRA 1449B) Mesic Spoolic (TA6) (MLRA 1447 (F12) Depressions (F7) (LRR R, MLRA 149B) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) (dicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. strictive Layer (if observed): Hydric Soil Present? Yes No Depth (inches): Mark ark	_ Deplete	d Below Dark Surf	face (A11	1) Redox Dark	Surfa	ce (F6)			Thin Dark Surface (S9) (I RR K. I.)
Sandy Mucky Mineria (S1)      Redx Depressions (F8)      Piedmont Floodplain Soils (F19) (MLRA 149B)         Sandy Edox (S5)      Meic Spodic (TA6) (MLRA 144A, 145, 149B)      Meic Spodic (TA6) (MLRA 144A, 145, 149B)         Stripped Matrix (S6)      Med Parent Material (F21)      Meic Spodic (TA6) (MLRA 149B)        Dark Surface (S7) (LRR R, MLRA 149B)      Wery Shallow Dark Surface (TF12)        Dark Surface (S7) (LRR r, MLRA 149B)	_ Thick Da	ark Surface (A12)		Depleted Da	irk Su	rface (F7	)		Iron-Manganese Masses (F12) (LRR K, L, R)
Sandy Gleyed Matrix (S4)	_ Sandy N	lucky Mineral (S1)		Redox Depr	essior	าร (F8)			Piedmont Floodplain Soils (F19) (MLRA 149B)
	_ Sandy G	ileyed Matrix (S4)							Mesic Spodic (TA6) <b>(MLRA 144A, 145, 149B)</b>
	_ Sandy R	edox (S5)							Red Parent Material (F21)
Dark Surface (S7) (LRR R, MLRA 1499)Other (Explain in Remarks)  dicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.  strictive Layer (if observed):	_ Stripped	d Matrix (S6)							Very Shallow Dark Surface (TF12)
Idicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.  strictive Layer (if observed):  Type:NoneHydric Soil Present? Yes _∠_No Depth (inches):Marks:	_ Dark Su	rface (S7) <b>(LRR R,</b> I	MLRA 14	19B)					Other (Explain in Remarks)
strictive Layer (if observed): Type:NoneHydric Soil Present? Yes _/_No Depth (inches): marks:	ndicators	of hydrophytic ve	getation	and wetland hyd	Irolog	y must b	e preser	t, unless disturbe	ed or problematic.
Type: <u>Non</u> Depth (inches): marks:	strictive l	_ayer (if observed)	):						
Depth (inches):		Туре:		None			Hydric	Soil Present?	Yes 🖌 No
marks:		Depth (inches):			-				
	emarks:	•							

Vegetation Photos



Soil Photos



Photo of Sample Plot North



Northcentral and Northeast Region -- Version 2.0 Adapted by TRC

Photo of Sample Plot East



## WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Riverside	e Solar		City/County:	Chaumont, Je	effe	rson		Sampling Date: 2020-June-01		
Applicant/Owner: G	ieronimo					State: NY		Sampling Point:	W-NS	D-01_UPL-1
Investigator(s): Nick	DeJohn, Other	, Ben Popham		S	Sect	ion, Township, Ra	ange:			
Landform (hillslope, te	rrace, etc.):	Hillslope		Local re	lief	(concave, convex	, none):	Convex		Slope (%): 2 to 5
Subregion (LRR or MLF	RA): LRR F	R		L	at:	44.068490183	Long:	-76.1162875873		Datum: WGS84
Soil Map Unit Name:	FuFluvaque	nts-Udifluvents	complex, free	quently flood	ed			NWI classifi	ication	:
Are climatic/hydrologic	c conditions on	the site typical	for this time o	of year?		Yes 🟒 No _	(If n	o, explain in Rema	arks.)	
Are Vegetation,	Soil,	or Hydrology	significant	ly disturbed?		Are "Normal	Circums	tances" present?	Y	res 🟒 No
Are Vegetation,	Soil,	or Hydrology	naturally p	problematic?		(If needed, ex	oplain ar	ny answers in Rem	narks.)	1

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

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

#### HYDROLOGY

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

VEGETATION -- Use scientific names of plants.

Sampling Point: W-NSD-01\_UPL-1

Tree Stratum (Plot size:30 ft)	Absolute	Dominant	Indicator	Dominance Test worksh	eet:		
	% Cover	Species?	Status	Number of Dominant Sp	becies That	1	(A)
1. <u>Tilia americana</u>	40	Yes	FACU	Total Number of Domin	ant Spacias		
2. <u>Carya ovata</u>	15	Yes	FACU	Across All Strata:	ant species	5	(B)
3				Percent of Dominant Sp	ecies That		
4				Are OBL, FACW, or FAC:		20	(A/B)
5				Prevalence Index works	heet:		
6				Total % Cover of	<u>of:</u>	Multiply	By:
7				OBL species	0	x 1 =	0
	55	= Total Cov	er	FACW species	0	x 2 =	0
Sapling/Shrub Stratum (Plot size: <u>15 ft</u> )				FAC species	30	x 3 =	90
1. Lonicera morrowii	40	Yes	FACU	FACU species	110	x 4 =	440
2. <u>Rhamnus cathartica</u>	30	Yes	FAC	UPL species	0	x 5 =	0
3				Column Totals	140	(A)	530 (B)
4				Prevalence Inc	dex = B/A =	3.8	
5				Hydrophytic Vegetation	Indicators:		
6				1- Rapid Test for H	vdrophytic V	legetation	
7				2 - Dominance Tes	t is > 50%	egetation	
	70	= Total Cov	er	3 - Prevalence Inde	$x is < 3.0^{1}$		
<u>Herb Stratum</u> (Plot size: <u>5 ft</u> )				4 - Morphological A	Adaptations <sup>1</sup>	(Provide	supporting
1. <i>Lonicera morrowii</i>	15	Yes	FACU	data in Remarks or on a	separate sh	leet)	Supporting
2				Problematic Hydro	phytic Vege	tation <sup>1</sup> (Ex	(plain)
3				<sup>1</sup> Indicators of hydric soil	and wetlan	d hydrolo	gy must be
4				present, unless disturbe	d or probler	matic	
5				Definitions of Vegetation	n Strata:		
6				Tree – Woody plants 3 ir	n. (7.6 cm) or	more in o	diameter at
7				breast height (DBH), reg	ardless of h	eight.	
8				Sapling/shrub - Woody	plants less tl	han 3 in. D	OBH and
9				greater than or equal to	3.28 ft (1 m	) tall.	
10				Herb – All herbaceous (r	non-woody)	plants, reg	gardless of
11				size, and woody plants l	ess than 3.2	8 ft tall.	
12.				Woody vines – All woody	y vines great	er than 3.	.28 ft in
	15	= Total Cov	er	neight.			
Woody Vine Stratum (Plot size: <u>30 ft</u> )				Hydrophytic Vegetation	Present?	/es N	lo
1.							
2.							
3.							
4.							
	0	= Total Cov	er				
Remarks: (Include photo numbers here or on a separate	e sheet.)						

SOIL

## Sampling Point: W-NSD-01\_UPL-1

-	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup> Tex	ture	Remarks
- 16	10YR 3/2	100				Silty Cla	ay Loam	
		_						
				·				
		_						
		_						
		_						
e: C = ( ric Soil	Concentration, D = [ Indicators:	Depletio	n, RM = Reduced	Matr	rix, MS = I	Masked Sand Grains. <sup>2</sup> L	ocation: PL = Pore Lining, Indicators for Problem	. M = Matrix. atic Hvdric Soils³:
listoso	l (A1)		Polyvalue Bel	ow S	urface (S	8) (LRR R, MLRA 149B)	2 cm Muck (A10) <b>(L</b> l	RR K, L, MLRA 149B)
listic E Black H	pipedon (A2) istic (A3)		Loamy Muck	rface / Min	(S9) <b>(LRR</b> eral (F1) <b>(</b>	R, MLRA 149B) (LRR K, L)	Coast Prairie Redox	(A16) (LRR K, L, R)
lydrog	en Sulfide (A4)		Loamy Gleye	d Ma	trix (F2)		5 cm Mucky Peat or Dark Surface (S7) (I	r Peat (S3) (LRR K, L, R) RR K L)
Stratifie	ed Layers (A5)		Depleted Ma	trix (F	3)		Polyvalue Below Su	rface (S8) <b>(LRR K, L)</b>
Peplete bick D	ed Below Dark Surfa ark Surface (A12)	ice (A11)	Redox Dark S Depleted Dar	urfac k Sur	te (F6) face (F7)		Thin Dark Surface (	S9) <b>(LRR K, L)</b>
andy M	Mucky Mineral (S1)		Redox Depre	ssion	is (F8)		Iron-Manganese Ma	asses (F12) <b>(LRR K, L, R)</b>
iandy (	Gleyed Matrix (S4)						Piedmont Floodplai	in Soils (F19) <b>(MLRA 149B</b> )
Sandy F	Redox (S5)						Mesic Spodic (TA6)	(MLKA 144A, 145, 149B)
Strippe	d Matrix (S6)						Very Shallow Dark	Surface (TF12)
Dark Sı	urface (S7) <b>(LRR R, M</b>	ILRA 149	9B)				Other (Explain in Re	emarks)
	of hydrophytic yog	etation a	and wetland hydr	ology	/ must be	e present, unless disturbe	ed or problematic.	
cators	of flydropflytic vege						N.	NI 6
cators rictive	Layer (if observed):					Hydric Soil Present?	Yes	No 🖌
cators rictive	Layer (if observed): Type:		None					
ictive	Layer (if observed): Type: Depth (inches):		None			, <b>,</b>		
cators rictive arks:	Layer (if observed): Type: Depth (inches):		None			,		
cators rictive arks:	Layer (if observed): Type: Depth (inches):		None			,		
cators rictive	Layer (if observed): Type: Depth (inches):		None			,		
cators rictive arks:	Layer (if observed): Type: Depth (inches):		None			,		
cators rictive arks:	Layer (if observed): Type: Depth (inches):		None					
rictive	Layer (if observed): Type: Depth (inches):		None			,		
arks:	Layer (if observed): Type: Depth (inches):		None			,		
cators rictive arks:	Layer (if observed): Type: Depth (inches):		None	<u>.</u>		,		
cators rictive arks:	Layer (if observed): Type: Depth (inches):		None			,		
cators rictive arks:	Layer (if observed): Type: Depth (inches):		None			,		
arks:	Layer (if observed): Type: Depth (inches):		None					
cators rictive arks:	Layer (if observed): Type: Depth (inches):		None					
icators rictive arks:	Layer (if observed): Type: Depth (inches):		None					
cators rictive arks:	Layer (if observed): Type: Depth (inches):		None					

Vegetation Photos



Soil Photos

Photo of Sample Plot North



Photo of Sample Plot East Photo of Sample Plot South



Photo of Sample Plot West

## WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Riverside	Solar	City/County: Chaumor	it, Jefferson	Sampling Date: 2020-June-01		
Applicant/Owner:	ieronimo		State: NY	Sampling Point: W-NSD-01_PEM-2		
Investigator(s): Nick	DeJohn, Other, Ben Popham		Section, Township, Ra	ange:		
Landform (hillslope, te	errace, etc.): Flood Plain	Loca	l relief (concave, convex	, none):	Concave	Slope (%): 0 to 1
Subregion (LRR or ML	<b>₹A):</b> LRR R		Lat: 44.0690789279	Long:	-76.1151459721	Datum: WGS84
Soil Map Unit Name:	FU Fluvaquents-Udifluven	ts complex, frequently fl	ooded		NWI classifica	ition:
	Status					
	Slope Gradient - Dominant	Component 2.00				
	Slope Gradient - Weighted /	Average 1.50				
	Bedrock Depth - Minimum					
	Water Table Depth - Annual	I - Minimum 0				
	Water Table Depth - April - J	june - Minimum U				
	Flooding Frequency - Domin	nant Condition Frequent				
	Ponding Frequency - Maxin					
	Available Water Storage 0-2	75 cm - Weighted Average	<u>- 3 10</u>			
	Available Water Storage 0-5	0 cm - Weighted Average	e 5.60			
	Available Water Storage 0-1	00 cm - Weighted Avera	ge 10.60			
	Available Water Storage 0-1	50 cm - Weighted Avera	ge 15.60			
	Drainage Class - Dominant	Condition Well drained	-			
	Drainage Class - Wettest Po	orly drained				
	Hydrologic Group - Domina	nt Conditions A/D				
	Irrigated Capability Class - [	Dominant Condition				
	Irrigated Capability Class - [	Dominant Condition Agg	regate Percent 100			
	Non-Irrigated Capability Cla	iss - Dominant Condition	5			
	Non-Irrigated Capability Cla	iss - Dominant Condition	Aggregate Percent 90			
	ENG - Dwellings W/O Basen	nents - Dominant Condit	ion Very limited			
	ENG - Dwellings with Basen	nents - Dominant Condit	ion Very limited			
	ENG - Dwellings with Basen	nents - Least Limiting Ver	y limited			
	ENG - Sentic Tank Absorptic	n Fields - Dominant Cor	dition			
	ENG - Septic Tank Absorptic	on Fields - Least Limiting				
	ENG - Septic Tank Absorptic	on Fields - Most Limiting				
	ENG - Sewage Lagoons - Dc	minant Condition				
	ENG - Sewage Lagoons - Do	minant Component				
	ENG - Local Roads and Stre	ets - Dominant Conditior	n Very limited			
	ENG - Construction Materia	ls; Sand Source - Domina	ant Condition			
	ENG - Construction Materia	ls; Sand Source - Most P	robable			
	URB/REC - Paths and Trails	- Dominant Condition Ve	ry limited			
	URB/REC - Paths and Trails	- Weighted Average 0.70				
	FOR - Potential Erosion Haz	ard (Road/Trail) - Domin	ant Component Slight			
	Hydric Classification - Prese	ence Partially hydric				
	AWW - Manure and Food Pr	ocessing waste - weight	ed Average			
Aro climatic/budget==	conditions on the site to the	I for this time of year?	Voc / N-	(If		(c )
		significantly disturb	tes _✔_ NO		, explain in Kemari tanços" procent?	Voc / No
Are Vegetation,	Soil, Or Hydrology _	Significantly disturble	ic (If readed and	circums	tances" present?	Tes _ 🖌 NO
Are vegetation,	SUII, Or Hydrology _	naturally problemat	ic: (If needed, ex	ipiain an	iy answers in Rema	i KS.)

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

Hydrophytic Vegetation Present?	Yes 🟒 No		
Hydric Soil Present?	Yes 🟒 No	Is the Sampled Area within a Wetland?	Yes 🟒 No
Wetland Hydrology Present?	Yes 🟒 No	lf yes, optional Wetland Site ID:	W-NSD-01
Remarks: (Explain alternative procedures he	ere or in a separate report	)	
Covertype is PEM.			
US Army Corps of Engineers		Northcentral and Northeast Re	gion Version 2.0 Adapted by TRC

## HYDROLOGY

Wetland Hydrology Indicators:			
Primary Indicators (minimum of	<u>one is required; check all t</u>	Secondary Indicators (minimum of two required)	
<ul> <li>Surface Water (A1)</li> <li>High Water Table (A2)</li> <li>✓ Saturation (A3)</li> <li>Water Marks (B1)</li> <li>Sediment Deposits (B2)</li> <li>Drift Deposits (B3)</li> <li>Algal Mat or Crust (B4)</li> <li>Iron Deposits (B5)</li> <li>Inundation Visible on Aerial II</li> <li>Sparsely Vegetated Concave Statement</li> </ul>	Water-S Aquatic Marl De Hydrog Oxidize Presene Recent Thin Mi magery (B7) Other (1 Surface (B8)	Stained Leaves (B9) c Fauna (B13) eposits (B15) gen Sulfide Odor (C1) ed Rhizospheres on Living Roots (C3) ice of Reduced Iron (C4) : Iron Reduction in Tilled Soils (C6) uck Surface (C7) Explain in Remarks)	<ul> <li>Surface Soil Cracks (B6)</li> <li>Drainage Patterns (B10)</li> <li>Moss Trim Lines (B16)</li> <li>Dry-Season Water Table (C2)</li> <li>Crayfish Burrows (C8)</li> <li>✓ Saturation Visible on Aerial Imagery (C9)</li> <li>Stunted or Stressed Plants (D1)</li> <li>✓ Geomorphic Position (D2)</li> <li>Shallow Aquitard (D3)</li> <li>Microtopographic Relief (D4)</li> <li>✓ FAC-Neutral Test (D5)</li> </ul>
Field Observations:			
Surface Water Present?	Yes No 🟒	Depth (inches):	
Water Table Present?	Yes No 🟒	Depth (inches):	- Wetland Hydrology Present? Yes / No
Saturation Present?	Yes 🟒 No	Depth (inches): 0	
(includes capillary fringe)			
Describe Recorded Data (stream Remarks:	gauge, monitoring well, ae	erial photos, previous inspections), if	f available:

VEGETATION -- Use scientific names of plants.

Sampling Point: W-NSD-01\_PEM-2

Tree Christian (Distring, 20 ft.)	Absolute	Dominant	Indicator	Dominance Test works	heet:		
<u>Tree Stratum</u> (Plot Size: <u>30 It</u> )	% Cover	Species?	Status	Number of Dominant	Species That	3	(A)
1				Are OBL, FACW, or FAC	:		(/ ()
2.				Total Number of Domi	nant Species	3	(B)
3.				Across All Strata:			
4.				Percent of Dominant S	pecies That	100	(A/B)
5.				Are OBL, FACW, or FAC	; 		
6.				Tetal % Cover	sneet:	N.A. Jaim I	D
7.				OPL species	<u>OT:</u>		<u>ву:</u> 10
	0	= Total Cov	er		10	x I =	100
Sapling/Shrub Stratum (Plot size: <u>15 ft</u> )		-		FACW species	95	x Z =	190
1. Fraxinus pennsylvanica	10	Yes	FACW	FAC Species	0	x 3 =	0
2.				FACU species	0	x 4 =	0
3.					0	x 5 =	0
4.					105	(A)	200 (B)
5.				Prevalence li	ndex = B/A =	1.9	
6.				Hydrophytic Vegetatio	n Indicators:		
7.				1- Rapid Test for	Hydrophytic V	egetation/	
	10	= Total Cov	er	2 - Dominance Te	st is >50%		
Herb Stratum (Plot size: 5 ft )		-		3 - Prevalence Inc	dex is $\leq 3.0^1$		
1. Phalaris arundinacea	60	Yes	FACW	4 - Morphologica	Adaptations	(Provide	supporting
2. Impatiens capensis	25	Yes	FACW	data in Remarks or on	a separate sh	ieet)	
3. <i>Carex crinita</i>	10	No	OBL	Indicators of hydris se	opnytic vege	d budrolo	piain) mumust bo
4.				present unless disturk	and wettan	a nyarolog matic	gy must be
5.				Definitions of Vegetati	on Strata:	nauc	
6.				Tree - Woody plants 3	in (7.6 cm) or	r more in (	diameter at
7.				breast height (DBH), re	gardless of h	eight.	
8.				Sapling/shrub - Woody	/ plants less tl	han 3 in. D	OBH and
9.				greater than or equal t	o 3.28 ft (1 m	) tall.	
10.				Herb – All herbaceous	(non-woody)	plants, reg	gardless of
11.				size, and woody plants	less than 3.2	8 ft tall.	
12.				Woody vines – All woo	dy vines great	ter than 3.	28 ft in
····	95	= Total Cov	er	height.			
Woody Vine Stratum (Plot size: 30 ft )		-		Hydrophytic Vegetatic	n Present?	/es 🟒 N	lo
1.							
2				•			
3.				•			
4.				•			
	0	= Total Cov	er				
Remarks: (Include photo numbers here or on a separate	sheet.)			_			

SOIL

## Sampling Point: W-NSD-01\_PEM-2

Depth	inpuon. (Describe	to the d	epth needed to d	ocun	nent the i	ndicator o	r confirm the al	osence of indicators.)
	Matrix		Redox	Fea	ures			
(inches)	Color (moist)	%	Color (moist)	<u>%</u>	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0 - 3	10YR 3/1	100					Clay Loar	n
3 - 20	10YR 3/2	95	10YR 4/6	5	C	M	Clay Loar	n
		<b>.</b>						
		- <u> </u>						
		- <u> </u>						
<sup>1</sup> Type: C = C	oncentration, D =	Depletic	on, RM = Reduced	Mat	rix, MS =	Masked Sa	and Grains. <sup>2</sup> Lo	ocation: PL = Pore Lining, M = Matrix.
Hydric Soil I	Indicators:							Indicators for Problematic Hydric Soils <sup>3</sup> :
Histosol	(A1)		Polyvalue Be	low S	urface (S	8) (LRR R,	MLRA 149B)	2 cm Muck (A10) (I PB K   MI PA 149B)
Histic Ep	pipedon (A2)		Thin Dark Su	rface	(S9) (LRR	R, MLRA	149B)	Coast Prairie Redoy (A16) (I RP K   P)
Black Hi	stic (A3)		Loamy Muck	y Mir	eral (F1)	(LRR K, L)		5 cm Mucky Peat or Peat (S3) (I RR K I R)
Hydroge	en Sulfide (A4)		Loamy Gleye	d Ma	trix (F2)			Dark Surface (S7) (I RR K. I)
Stratifie	d Layers (A5)		Depleted Ma	trix (	-3)			Polyvalue Below Surface (S8) (LRR K. L)
Deplete	d Below Dark Surfa	ace (A11	)_✓ Redox Dark S	Surfa	ce (F6)			Thin Dark Surface (S9) (LRR K. L)
Thick Da	ark Surface (A12)		Depleted Da	rk Su	rface (F7)			Iron-Manganese Masses (F12) (LRR K, L, R)
Sandy N	lucky Mineral (S1)		Redox Depre	ssior	is (F8)			Piedmont Floodplain Soils (F19) (MLRA 149B)
Sandy G	ileyed Matrix (S4)							Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
Sandy R	edox (S5)							Red Parent Material (F21)
Stripped	d Matrix (S6)							Very Shallow Dark Surface (TF12)
Dark Su	rface (S7) <b>(LRR R, N</b>	ILRA 14	9B)					Other (Explain in Remarks)
<sup>3</sup> Indicators	of hydrophytic veg	etation	and wetland hydi	rolog	y must be	e present,	unless disturbe	d or problematic.
	_ayer (if observed):							
Restrictive L	-					Hydric So	oil Present?	Yes 🟒 No
Restrictive L	Туре:		None			-		
Restrictive L	Type: Depth (inches):		None					
Restrictive L	Type: Depth (inches):		None					
Restrictive L	Type: Depth (inches):		None	-				
Restrictive L	Type: Depth (inches):		None					
Restrictive I	Type: Depth (inches):		None					
Restrictive L	Type: Depth (inches):		None			<u> </u>		
Restrictive I	Type: Depth (inches):		None			1		
Restrictive I	Type: Depth (inches):		None			1		
Restrictive I	Type: Depth (inches):		None					
Restrictive I	Type: Depth (inches):		None					
Restrictive I Remarks:	Type: Depth (inches):		None					
Restrictive I	Type: Depth (inches):		None			1		
Restrictive I	Type: Depth (inches):		None			1		
Restrictive L	Type: Depth (inches):		None			1		
Restrictive L	Type: Depth (inches):		None					
Restrictive L	Type: Depth (inches):		None					
Restrictive L	Type: Depth (inches):		None					
Restrictive I	Type: Depth (inches):		None					
Restrictive L	Type: Depth (inches):		None					
Restrictive I	Type: Depth (inches):		None					
Restrictive I Remarks:	Type: Depth (inches):		None					

Vegetation Photos



#### Soil Photos



Photo of Sample Plot North



Photo of Sample Plot East Photo of Sample Plot South



Photo of Sample Plot West

## WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Riverside Sol	lar	City/County: Chaumont,	Jefferson	Sampling Date:	2020-June-01
Applicant/Owner: Gero	onimo		State: NY	Sampling Point:	W-NSD-01_PFO-1
Investigator(s): Nick DeJ	John, Other, Ben Popham		Section, Township, Range	:	
Landform (hillslope, terrad	ce, etc.): Flood Plain	Local re	elief (concave, convex, no	ne): Concave	Slope (%): 0 to 1
Subregion (LRR or MLRA):	LRR R		Lat: 44.0683378 Lo	ong: -76.1162523833	Datum: WGS84
Soil Map Unit Name: G	bBGaloo-Rock outcrop co	mplex, 0 to 8 percent slop	bes	NWI classifie	cation:
Are climatic/hydrologic co	nditions on the site typical	for this time of year?	Yes 🟒 No	If no, explain in Rema	rks.)
Are Vegetation, Soi	il, or Hydrology	significantly disturbed	? Are "Normal Circ	umstances" present?	Yes 🟒 No
Are Vegetation, Soi	il, or Hydrology	naturally problematic?	(If needed, explai	n any answers in Rem	arks.)

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

Hydrophytic Vegetation Present?	Yes 🟒 No		
Hydric Soil Present?	Yes 🟒 No	Is the Sampled Area within a Wetland?	Yes 🟒 No
Wetland Hydrology Present?	Yes 🟒 No	If yes, optional Wetland Site ID:	W-NSD-01
Remarks: (Explain alternative procedures he	ere or in a separate report	)	
Covertype is PFO.			

#### HYDROLOGY

Secondary Indicators (minimum of two required)           B9)
B9) Surface Soil Cracks (B6)
<ul> <li>Moss Trim Lines (B16)</li> <li>(C1)</li> <li>Dry-Season Water Table (C2)</li> <li>on Living Roots (C3)</li> <li>Crayfish Burrows (C8)</li> <li>Saturation Visible on Aerial Imagery (C9)</li> </ul>
ron (C4)       Stunted or Stressed Plants (D1)         in Tilled Soils (C6)       Geomorphic Position (D2)         Shallow Aquitard (D3)       Microtopographic Relief (D4)         FAC-Neutral Test (D5)
es):
es): 3 Wetland Hydrology Present? Yes 🟒 No
es): 0
vious inspections), if available:
r; r) ] ] ] ] ] ] ] ] ] ] ] ] ] ] ] ] ] ]

VEGETATION -- Use scientific names of plants.

Sampling Point: W-NSD-01\_PFO-1

Tree Stratum (Plot size: 30 ft )	Absolute	Dominant	Indicator	Dominance Test workshe	eet:		
	% Cover	Species?	Status	Number of Dominant Sp	ecies That	3	(A)
1. <i>Salix nigra</i>	40	Yes	OBL	Are OBL, FACW, or FAC:			
2. <i>Fraxinus pennsylvanica</i>	15	Yes	FACW	Across All Strata:	int Species	3	(B)
3				ACTOSS All Strata.	ciec That		
4						100	(A/B)
5				Prevalence Index worksh	neet:		
6				Total % Cover o	f	Multiply	Bv.
7				OBL species	<u>.</u> 48	x 1 =	<b>2y.</b> 48
	55	= Total Cov	er	EACW species	15	x 2 =	30
Sapling/Shrub Stratum (Plot size: <u>15 ft</u> )				EAC species	0	×3=	0
1				FACI I species	0	× 1 -	0
2					0	×4- ×5-	0
3				Column Totals	62	(^)	79 (P)
4.					D = D/A = D/A = 0	(A) _	70 (D)
5.					EX - B/A =	1.2	
6.				Hydrophytic Vegetation I	ndicators:		
7.				1- Rapid Test for Hy	drophytic V	egetation/	
	0	= Total Cov	er	2 - Dominance Test	is >50%		
Herb Stratum (Plot size: 5 ft )		-		3 - Prevalence Inde	$x \text{ is} \leq 3.0^1$		
1. Carex stricta	8	Yes	OBL	4 - Morphological A	daptations	(Provide	supporting
2.		·		data in Remarks or on a	separate sn	ieet)	سامات)
3.		·		Problematic Hydro	and wotlan	d bydrolog	piairi) nu must ho
4.				indicators of hydric soll	and wettan d or problem	a nyarolog matic	gy must be
5.				Definitions of Vegetation	Strata.	natic	
6.		·		Tree - Woody plants 3 in	(7.6  cm)  or	more in a	liamotor at
7.		·		breast height (DBH), reg	ardless of h	eight.	
8		·		Sapling/shrub – Woody r	plants less t	han 3 in. D	)BH and
9		·		greater than or equal to	3.28 ft (1 m	) tall.	
10				Herb – All herbaceous (n	on-woody)	plants, reg	ardless of
11				size, and woody plants le	ess than 3.2	8 ft tall.	
12		·		Woody vines - All woody	vines great	ter than 3.	28 ft in
12		- Total Cov	or	height.			
Woody Vine Stratum (Plot size: 30 ft )	0	- 10tal COV		Hydrophytic Vegetation	Present?	/es 🟒 N	0
2		·					
2.							
S		·					
4		Tatal Car					
	0		er				
Remarks: (Include photo numbers here or on a separate	e sheet.)						

SOIL

## Sampling Point: W-NSD-01\_PFO-1

Profile Deso	ription: (Describe t	o the d	lepth needed to o	locun	nent the	indicato	r or confirm the a	bsence of	indicators.)
(inchos)	Color (moist)	04	Color (moist)	04	Type1	1.002	Toyturo		Pomarka
		<u>%0</u>				<u>LOC-</u>		~	Remarks
0-20	1018 3/1	95	1018 5/0	<u> </u>					
		· —							
		· —							
		· —						<u> </u>	
		·							
		· —						<u> </u>	
		·							
		·							
		·							
		·							
		·							
		·							
Гуре: С = С	oncentration, D = [	Depleti	on, RM = Reduced	d Mat	rix, MS =	Masked	Sand Grains. <sup>2</sup> L	ocation: Pl	L = Pore Lining, M = Matrix.
lydric Soil	Indicators:							Indicato	rs for Problematic Hydric Soils <sup>3</sup> :
Histosol	(A1)		Polyvalue Be	low S	Surface (S	58) (LRR	R, MLRA 149B)	2 cm	Muck (A10) <b>(LRR K, L, MLRA 149B)</b>
Histic Ep	olpedon (A2)		Thin Dark Su	irface	e (S9) <b>(LRI</b> Doral (E1)	K K, MLK	A 149B)	Coas	t Prairie Redox (A16) <b>(LRR K, L, R)</b>
	suc (AS) on Sulfide (A4)			d Ma	ierar (F1) atrix (F2)	LKK K,	-)	5 cm	Mucky Peat or Peat (S3) <b>(LRR K, L, R)</b>
Stratifie	d Lavers (A5)		Depleted Ma	atrix (	F3)			Dark	Surface (S7) (LRR K, L)
 Deplete	d Below Dark Surfa	ce (A1 <sup>-</sup>	I)_✓ Redox Dark	Surfa	ce (F6)			Poly	value Below Surface (S8) (LRR K, L)
Thick Da	ark Surface (A12)		Depleted Da	rk Su	rface (F7	)		I hin	Dark Surface (S9) (LRR K, L)
Sandy N	lucky Mineral (S1)		Redox Depre	essior	าร (F8)			Iron-	Manganese Masses (F12) (LRR K, L, R)
Sandy G	ileyed Matrix (S4)							Plea	mont Floodplain Solis (F19) (MLRA 149B)
Sandy R	edox (S5)							IVIESI Rod I	Darent Material (E21)
Stripped	d Matrix (S6)							Keu i Verv	Shallow Dark Surface (TE12)
Dark Su	rface (S7) <b>(LRR R, M</b>	LRA 14	l9B)					Othe	er (Explain in Remarks)
Indicators	of hydrophytic yeg	etation	and wetland hyd	rolog	v must h	e nreser	nt unless disturbe	 d or probl	lematic
Restrictive	_ayer (if observed):		and wetand nya	10108	y mase s		it, unicos distarbe		
	Type:		None			Hydric	Soil Present?		Yes No
	Depth (inches):			-		5			
Remarks:						1			_
cindiks.									

Hydrology Photos



Vegetation Photos



#### Soil Photos



Photo of Sample Plot North Photo of Sample Plot East



Photo of Sample Plot South Photo of Sample Plot West



# WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Riverside	e Solar		City/County: C	haumont, Jeffe	erson		Sampling Date:	2020-June-02
Applicant/Owner: G	ieronimo				State: NY		Sampling Point:	W-NSD-01_PUB-3
Investigator(s): Nick	DeJohn, Othei	r, Ben Popham		Sec	tion, Township, Ra	inge:		
Landform (hillslope, te	rrace, etc.):	Depression		Local relief	(concave, convex	, none):	Concave	Slope (%): 0 to 1
Subregion (LRR or MLF	RA): LRR F	R		Lat:	44.0691971966	Long:	-76.1141925306	Datum: WGS84
Soil Map Unit Name:	FuFluvaque	nts-Udifluvents	complex, frequ	lently flooded			NWI classifi	cation:
Are climatic/hydrologic	c conditions or	the site typical	for this time of	f year?	Yes 🟒 No 🔄	(lf n	o, explain in Rema	irks.)
Are Vegetation,	Soil,	or Hydrology	significantly	/ disturbed?	Are "Normal (	Circums	tances" present?	Yes 🟒 No
Are Vegetation,	Soil,	or Hydrology	naturally pr	oblematic?	(If needed, ex	plain ar	ny answers in Rem	arks.)

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

Hydrophytic Vegetation Present?	Yes 🟒 No		
Hydric Soil Present?	Yes 🟒 No	Is the Sampled Area within a Wetland?	Yes 🟒 No _
Wetland Hydrology Present?	Yes 🟒 No	If yes, optional Wetland Site ID:	W-NSD-01
Remarks: (Explain alternative procedures h	nere or in a separate repor	t)	
Covertype is PUB.			

### HYDROLOGY

Wetland Hydrology Indicators:				
Primary Indicators (minimum of	one is required; check a	all that apply)		Secondary Indicators (minimum of two required)
<ul> <li>✓ Surface Water (A1)</li> <li>✓ High Water Table (A2)</li> <li>Saturation (A3)</li> <li>Water Marks (B1)</li> <li>Sediment Deposits (B2)</li> <li>Drift Deposits (B3)</li> <li>Algal Mat or Crust (B4)</li> </ul>	Wat Aqu Mar Hyd Oxio Pres Rec	er-Stained Leaves (B9) latic Fauna (B13) l Deposits (B15) lrogen Sulfide Odor (C1) dized Rhizospheres on Living sence of Reduced Iron (C4) ent Iron Reduction in Tilled S	g Roots (C3) Soils (C6)	<ul> <li>Surface Soil Cracks (B6)</li> <li>Drainage Patterns (B10)</li> <li>Moss Trim Lines (B16)</li> <li>Dry-Season Water Table (C2)</li> <li>Crayfish Burrows (C8)</li> <li>Saturation Visible on Aerial Imagery (C9)</li> <li>Stunted or Stressed Plants (D1)</li> <li>Geomorphic Position (D2)</li> </ul>
<ul> <li>Iron Deposits (B5)</li> <li>Inundation Visible on Aerial I</li> <li>Sparsely Vegetated Concave</li> </ul>	Thir magery (B7) Oth Surface (B8)	Shallow Aquitard (D3) Microtopographic Relief (D4) FAC-Neutral Test (D5)		
Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe)	Yes _✔_ No Yes _✔_ No Yes _✔_ No	Depth (inches): Depth (inches): Depth (inches):	12 0 0	_ 
Describe Recorded Data (stream	n gauge, monitoring wel	l, aerial photos, previous ins	pections), if	available:

VEGETATION -- Use scientific names of plants.

Sampling Point: W-NSD-01\_PUB-3

Tree Stratum (Plot size: _30 fL)       Absolute Dominant Indicator % Cover Species? Status       Dominanc Fest worksheet: Are OBL, FACW, or FAC:       Z       (A)         1							
1       % Gover Species? Status       Number of Dominant Species That Are OBL FACW, or FAC:       2       (A)         2	Tree Stratum (Plot size: 30 ft )	Absolute	Dominant	Indicator	Dominance Test worksheet:		
1.       Are OBL, FACU, or FAC:		% Cover	Species?	Status	Number of Dominant Species Tl	.at 2	(A)
2	1.				Are OBL, FACW, or FAC:		
3.	2.				Total Number of Dominant Spec	ies 🤈	(B)
4.       Percent of Dominant Species That       100       (A/B)         5.       Prevalence Index worksheet:       Total S.Cover of.       Multiply.By.         7.       0       = Total Cover       FAC Ware Constraints       0       Status         1.       0       = Total Cover       FAC Ware Constraints       0       Status       0         2.       0       = Total Cover       FAC Uspecies       0       x 4 =       0         3.       0       (A/B)       Prevalence Index = B/A =       1.       1.       (A/B)         5.       0       = Total Cover       FAC Uspecies       0       x 5 =       0         4.       0       = Total Cover       Image: C	3.				Across All Strata:		(8)
Are OBL, FACW, or FAC:       Itel: (FACW, or FAC:       Itel: (FACW, or FAC:         6.	4	·			<ul> <li>Percent of Dominant Species The</li> </ul>	at 100	(A/B)
7.	5	·			Are OBL, FACW, or FAC:		(,,,,,)
Description       Total & Cover of:       Multiply.By:         Saping/Shrub Stratum (Plot size: _15 ft_)       0       = Total Cover       FACW species       5       x.1 =       5         2.          PACU species       0       x.3 =       0         3.          PACU species       0       x.4 =       0         2.          Pacus species       0       x.4 =       0         3.           Prevalence Index = B/A =       1.5         4.             Prevalence Index is 4          7.                  1.       Phalaris arundinacea	· · · · · · · · · · · · · · · · · · ·	·	<u> </u>		<ul> <li>Prevalence Index worksheet:</li> </ul>		
	o	·			- <u>Total % Cover of:</u>	<u>Multiply</u>	By:
Sapling/Shrub Stratum (Plot size: _15.ft_)	/	·	<u> </u>		- OBL species 5	x 1 =	5
Sapling/Shrub Stratum (Plot size: _15.ft_)       FAC species       0       x 3 =       0         1.		0	= Total Cove	er	FACW species 5	x 2 =	10
1.	Sapling/Shrub Stratum (Plot size: <u>15 ft</u> )				FAC species 0		0
2.       UP: species       0       x.5 =       0         3.       Column Totals       10       (A)       15       (B)         5.       Column Totals       10       (A)       15       (B)         6.         1.       Phage Test for Hydrophytic Vegetation         7.        0       = Total Cover         1.       Phadaris arundinacea       5       Yes       FACW         1.       Phadaris arundinacea       5       Yes       OBL	1				- FACU species 0		0
3.	2						0
4.	3.				Column Totals		
5.	4.					(A)	12 (B)
6.	5.	·	······································		Prevalence Index = B/	<u>(=1.5</u>	
S.	6	·			<ul> <li>Hydrophytic Vegetation Indicate</li> </ul>	rs:	
0       = Total Cover         4       2       2       Dominance Test is >50%         5       Yes       FACW         2       Schoenoplectus tabernaemontani       5       Yes         3.	7	·			- 🖌 1- Rapid Test for Hydrophy	ic Vegetation	ı
Herb Stratum (Plot size: _5f)	/·		- Total Cau		- 🖌 2 - Dominance Test is >50%	i	
Herb Stratum (Plot size:STA)      4 - Morphological Adaptations' (Provide supporting data in Remarks or on a separate sheet)      4 - Morphological Adaptations' (Provide supporting data in Remarks or on a separate sheet)         3.		0		er	$\checkmark$ 3 - Prevalence Index is ≤ 3	0 <sup>1</sup>	
1.       Phalaris arundinacea       5       Yes       PACW         2.       Schoenoplectus tabernaemontani       5       Yes       OBL       Problematic Hydrophytic Vegetation 1(Explain)         3.	Herb Stratum (Plot size: <u>5 ft</u> )	_			4 - Morphological Adaptati	ons¹ (Provide	supporting
2.       Schoenoplectus tabernaemontani       5       Yes       OBL      Problematic Hydrophytic Vegetation1 (Explain)         3.	1. <u>Phalaris arundinacea</u>	5	Yes	FACW	- data in Remarks or on a separat	e sheet)	
3.	2. Schoenoplectus tabernaemontani	5	Yes	OBL	Problematic Hydrophytic V	egetation <sup>1</sup> (E>	kplain)
4.	3				- <sup>1</sup> Indicators of hydric soil and we	land hydrolo	gy must be
5.	4.				present, unless disturbed or pro	blematic	
6	5.				Definitions of Vegetation Strata:		
7.	6.				Tree – Woody plants 3 in. (7.6 cr	) or more in	diameter at
8.	7.		· · · · ·		breast height (DBH), regardless	of height.	
g. greater than or equal to 3.28 ft (1 m) tall.   10. greater than or equal to 3.28 ft (1 m) tall.   11. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.   12. 10   10 = Total Cover   Hydrophytic Vegetation Present? Yes _/ No   1	8.				Sapling/shrub – Woody plants le	ss than 3 in. [	OBH and
10.   11.   12.   10.   12.   10.   10.   11.   12.   10.   10.   10.   = Total Cover   Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.   Woody Vine Stratum (Plot size:30 ft)   1.   2.   3.   4.   0.   = Total Cover   Hydrophytic Vegetation Present? Yes No   Remarks: (Include photo numbers here or on a separate sheet.)	9	·			greater than or equal to 3.28 ft	1 m) tall.	
11.	10	·			Herb – All herbaceous (non-woo	dv) plants, re	gardless of
11.		·			size, and woody plants less than	3.28 ft tall.	0
12.       10       = Total Cover       height.         Woody Vine Stratum (Plot size:30 ft)       10       = Total Cover       Hight.         1.					- Woody vines - All woody vines a	reater than 3	.28 ft in
Moody Vine Stratum (Plot size:30 ft)   1.   2.   3.   4.   0   = Total Cover   Hydrophytic Vegetation Present? Yes No	12	·	<u> </u>		height.		
Woody Vine Stratum (Plot size:30 ft)   1.   2.   3.   4.   0   = Total Cover   Remarks: (Include photo numbers here or on a separate sheet.)		10	= Total Cove	er			
1.   2.   3.   4.   0   = Total Cover   Remarks: (Include photo numbers here or on a separate sheet.)	Woody Vine Stratum (Plot size: <u>30 ft</u> )				Hydrophytic vegetation Presen	f tes <u>7</u> h	NO
2.	1				_		
3.	2						
4	3.						
0 = Total Cover Remarks: (Include photo numbers here or on a separate sheet.)	4.				-		
Remarks: (Include photo numbers here or on a separate sheet.)		0	= Total Cove	er	-		
Remarks: (Include photo numbers here or on a separate sheet.)			-				
	Remarks: (Include photo numbers here or on a separat	e sheet.)					

SOIL

Profile Des	cription: (Describe to	o the c	lepth needed to o	docur	nent the	indicato	or or confirm the a	bsence of indicators.)
Depth	Matrix		Redox	Feat	ures			
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
-								
							-	
<sup>1</sup> Type: C = C	Concentration, D = D	Pepleti	on, RM = Reduce	d Mat	trix, MS =	Masked	l Sand Grains. <sup>2</sup> L	ocation: PL = Pore Lining, M = Matrix.
Hydric Soil	Indicators:							Indicators for Problematic Hydric Soils <sup>3</sup> :
Histoso	(A1)		Polyvalue Be	elow S	Surface (S	58) <b>(LRR</b>	R, MLRA 149B)	2 cm Muck (A10) <b>(LRR K</b> . L. <b>MLRA 149B)</b>
Histic E	oipedon (A2)		Thin Dark Su	urface	e (S9) <b>(LRF</b>	r r, mlr	A 149B)	Coast Prairie Redox (A16) (LRR K. L. R)
Black H	stic (A3)		Loamy Mucl	ky Mir	neral (F1)	(LRR K,	L)	5 cm Mucky Peat or Peat (S3) (LRR K. L. R)
Hydrog	en Sulfide (A4)		Loamy Gleye	ed Ma	atrix (F2)			Dark Surface (S7) (LRR K. L)
Stratifie	d Layers (A5)		Depleted Ma	atrix (	F3)			Polyvalue Below Surface (S8) (LRR K, L)
Deplete	d Below Dark Surfa	ce (A1	1) Redox Dark	Surfa	ce (F6)			Thin Dark Surface (S9) (LRR K, L)
Thick Da	ark Surface (A12)		Depleted Da	irk Su	rface (F7	)		Iron-Manganese Masses (F12) (LRR K, L, R)
Sandy N	lucky Mineral (S1)		Redox Depr	essio	ns (F8)			Piedmont Floodplain Soils (F19) (MLRA 149B)
Sandy C	leyed Matrix (S4)							Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
Sandy F	edox (S5)							Red Parent Material (F21)
Strippe	d Matrix (S6)							Very Shallow Dark Surface (TF12)
Dark Su	rface (S7) <b>(LRR R, M</b>	LRA 14	19B)					Other (Explain in Remarks)
3Indicators	of hydrophytic yogo	tation	and wotland by	Irolog	n must b		nt unloss disturb	ad ar problematic
Restrictive	aver (if observed):	lation			sy must b	ie prese		
	Type:		None			Hydric	Soil Present?	Yes / No
	Dopth (inchos):		None	-		inguite	Son resent.	
Deverage	Deptil (inches).			·				
Remarks:		<b>C</b> 1.					- h - h - duite	
Due to inur	idation a clear soil p	profile	was unobtainabl	e. Soi	is are ass	sumed to	o be hydric.	

Hydrology Photos



Vegetation Photos

#### Soil Photos



Photo of Sample Plot North
Photo of Sample Plot



Photo of Sample Plot South Photo of Sample Plot West



# WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Riverside	Solar		City/County:	Chaumont,	Jeffe	rson		Sampling Date	: 202	0-June-01
Applicant/Owner: Ge	eronimo					State: NY		Sampling Point:	W-NS	D-01_UPL-2
Investigator(s): Nick I	DeJohn, Other	, Ben Popham			Sect	ion, Township, Ra	nge:			
Landform (hillslope, ter	race, etc.):	Low Hill		Local re	elief	(concave, convex,	, none):	Convex		Slope (%): 1 to 3
Subregion (LRR or MLR/	A): LRR F	1			Lat:	44.0691896948	Long:	-76.1151554436		Datum: WGS84
Soil Map Unit Name:	FuFluvaque	nts-Udifluvents	complex, frec	quently flood	ded			NWI classifi	ication	:
Are climatic/hydrologic	conditions on	the site typical	for this time o	of year?		Yes 🟒 No 🔄	(lf n	o, explain in Rema	arks.)	
Are Vegetation,	Soil,	or Hydrology	significant	ly disturbed	?	Are "Normal (	Circums	tances" present?	Y	′es No
Are Vegetation,	Soil,	or Hydrology	naturally p	problematic?	<b>)</b>	(If needed, ex	plain ar	ny answers in Rem	narks.)	1

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

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

#### HYDROLOGY

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

VEGETATION -- Use scientific names of plants.

Sampling Point: W-NSD-01\_UPL-2

Tree Stratum (Plot size:30 ft)	Absolute	Dominant	Indicator	Dominance Test works	heet:		
	% Cover	Species?	Status		species i nat	1	(A)
1. Fraxinus americana	15	Yes	FACU	Total Number of Domi	nant Snecies		
2. <u>Tilia americana</u>	10	Yes	FACU	Across All Strata:	num species	6	(B)
3	·			Percent of Dominant S	pecies That		
4.				Are OBL, FACW, or FAC	:	16.7	(A/B)
5.				Prevalence Index work	sheet:		
6				<u>Total % Cover</u>	of:	Multiply	<u>By:</u>
7		Tatal Ca		OBL species	0	x 1 =	0
Cauling (Church Churchang (Distriction of Church Church	25	= lotal Cov	er	FACW species	8	x 2 =	16
Sapling/Shrub Stratum (Plot size:15 ft)	10		FAC	FAC species	40	x 3 =	120
1. Knamnus cathartica	40	Yes	FAC	FACU species	70	x 4 =	280
2. Lonicera morrowii	15	Yes	FACU	UPL species	20	x 5 =	100
3	·			Column Totals	138	(A)	516 (B)
4.				Prevalence In	ndex = B/A =	3.7	
5.	·			Hydrophytic Vegetation	n Indicators:		
6.	. <u> </u>			1- Rapid Test for I	Hydrophytic V	/egetation	
7				2 - Dominance Te	st is > 50%	•	
	55	= lotal Cov	er	3 - Prevalence Inc	dex is $\leq 3.0^1$		
Herb Stratum (Plot size: <u>5 ft</u> )				4 - Morphological	Adaptations	<sup>1</sup> (Provide :	supporting
1. Solidago canadensis	30	Yes	FACU	data in Remarks or on	a separate sh	neet)	
2. Fragaria vesca	20	Yes	UPL	Problematic Hydr	ophytic Vege	tation <sup>1</sup> (Ex	plain)
3. <u>Anemone canadensis</u>	8	No	FACW	<sup>1</sup> Indicators of hydric so	il and wetlan	d hydrolog	gy must be
4				present, unless disturb	ed or proble	matic	
5				Definitions of Vegetation	on Strata:		
6				Tree – Woody plants 3	in. (7.6 cm) oi	r more in o	liameter at
7				breast height (DBH), re	gardless of h	eight.	
8				Sapling/shrub - Woody	/ plants less t	han 3 in. D	BH and
9				greater than or equal t	:o 3.28 ft (1 m	) tall.	
10				Herb – All herbaceous	(non-woody)	plants, reg	gardless of
11					du vinos groat	tor than 2	20 ft in
12				height	uy villes grea	ter than 5.	201111
	58	= Total Cov	er			( N	
Woody Vine Stratum (Plot size: <u>30 ft</u> )				Hydrophytic vegetatic	on Present?	res N	0
1							
2							
3							
4							
	0	= Total Cov	er				
Remarks: (Include photo numbers here or on a separat	e sheet.)			_			

SOIL

### Sampling Point: W-NSD-01\_UPL-2

cnes) Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup> Text	ture	Remarks
- 17 10YR 2/2	100				Silty Cla	y Loam	
			·				
e: C = Concentration, D =	= Depletior	n, RM = Reduced	Matrix	, MS = N	Masked Sand Grains. <sup>2</sup> L	ocation: PL = Pore Lining	, M = Matrix.
ric Soil Indicators:						Indicators for Problem	atic Hydric Soils <sup>3</sup> :
Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Sur Thick Dark Surface (A12) Sandy Mucky Mineral (S1 Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, licators of hydrophytic ve	face (A11) face (A11) MLRA 149 getation a	<ul> <li>Thin Dark Sui</li> <li>Loamy Mucky</li> <li>Loamy Gleyed</li> <li>Depleted Material</li> <li>Redox Dark S</li> <li>Depleted Darered</li> <li>Redox Depres</li> </ul> B) nd wetland hydr	ology r	nust be	R, MLRA 149B) LRR K, L) present, unless disturbe	Coast Prairie Redo     S cm Mucky Peat o     Dark Surface (S7) (I     Polyvalue Below Su     Thin Dark Surface (     Iron-Manganese M     Piedmont Floodpla     Mesic Spodic (TA6)     Red Parent Materia     Very Shallow Dark     Other (Explain in R d or problematic.	x (A16) (LRR K, L, R) r Peat (S3) (LRR K, L, R) LRR K, L) urface (S8) (LRR K, L) (S9) (LRR K, L) asses (F12) (LRR K, L, R) in Soils (F19) (MLRA 149B) (MLRA 144A, 145, 149B) al (F21) Surface (TF12) emarks)
trictive Layer (if observed	):		0			· · · · · · · · · · · · · · · · · · ·	
Туре:		None			Hydric Soil Present?	Yes _	No
Depth (inches):							

Vegetation Photos



Soil Photos

Photo of Sample Plot North



Photo of Sample Plot East Photo of Sample Plot South



Photo of Sample Plot West

# WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Riverside	e Solar		City/County: C	haumont, Jeffe	erson		Sampling Date	2020-June-02
Applicant/Owner: G	ieronimo				State: NY		Sampling Point:	W-NSD-01_UPL-3
Investigator(s): Nick	DeJohn, Othei	r, Ben Popham		Sect	tion, Township, Ra	ange:		
Landform (hillslope, te	rrace, etc.):	Hillslope		Local relief	(concave, convex	, none):	Convex	Slope (%): 1 to 10
Subregion (LRR or MLF	RA): LRR F	R		Lat:	44.0692006331	Long:	-76.1142334343	Datum: WGS84
Soil Map Unit Name:	FUFluvaque	ents-Udifluvents	complex, frequ	uently flooded			NWI classifi	cation:
Are climatic/hydrologi	c conditions or	the site typical	for this time of	f year?	Yes 🟒 No 🔄	(lf n	o, explain in Rema	arks.)
Are Vegetation,	Soil,	or Hydrology	significantly	/ disturbed?	Are "Normal (	Circums	tances" present?	Yes 🟒 No
Are Vegetation,	Soil,	or Hydrology	naturally pr	oblematic?	(If needed, ex	plain ar	ny answers in Rem	narks.)

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

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

#### HYDROLOGY

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

VEGETATION -- Use scientific names of plants.

Sampling Point: W-NSD-01\_UPL-3

Tree Stratum (Plot size: <u>30 ft</u> )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test works Number of Dominant	<b>sheet:</b> Species That		
1. Tilia americana	30	Yes	FACU	Are OBL, FACW, or FAC		1	(A)
2		105	1///20	Total Number of Domi	nant Species		(D)
2				Across All Strata:		6	(B)
۶ ۸				Percent of Dominant S	pecies That	16.7	$(\Delta/B)$
5				Are OBL, FACW, or FAC	2		(,,,,,,)
6				Prevalence Index work	sheet:		
7		·		Total % Cover	<u>r of:</u>	<u>Multiply</u>	<u>By:</u>
7	20	- Total Cov	or	OBL species	0	x 1 =	0
Capling/Chruh Stratum (Diat ciza) 15 ft )		- 10tal COV		FACW species	0	x 2 =	0
<u>Sapiing/Sillub Stratum</u> (Plot Size. <u>15 it</u> )	20	Vac	FAC	FAC species	30	x 3 =	90
		Yes	FAC	FACU species	123	x 4 =	492
2. Lonicera morrowii	20	Yes	FACU	- UPL species	0	x 5 =	0
3.				Column Totals	153	(A)	582 (B)
4		. <u> </u>		Prevalence I	ndex = B/A =	3.8	
5		. <u> </u>		Hydrophytic Vegetatio	n Indicators:		
6.				1- Rapid Test for	Hydrophytic V	egetation	
7				2 - Dominance Te	st is > 50%	-8	
	50	= Total Cov	er	3 - Prevalence Inc	dex is $< 3.0^1$		
<u>Herb Stratum</u> (Plot size: <u>5 ft</u> )				4 - Morphologica	L Adaptations <sup>1</sup>	(Provide	sunnorting
1. <i>Plantago lanceolata</i>	30	Yes	FACU	- data in Remarks or on	a separate sh	(FTOVIDE)	Supporting
2. <i>Fragaria virginiana</i>	20	Yes	FACU	Problematic Hvd	rophytic Veget	tation <sup>1</sup> (Ex	plain)
3. Trifolium repens	15	Yes	FACU	<sup>1</sup> Indicators of hydric so	oil and wetland	d hvdrolog	ev must be
4. <i>Vicia americana</i>	8	No	FACU	present, unless distur	ped or probler	natic	5) 11450 80
5.				Definitions of Vegetati	on Strata:		
6.				Tree – Woody plants 3	in. (7.6 cm) or	more in a	diameter at
7.				breast height (DBH), re	egardless of h	eight.	
8.				Sapling/shrub - Wood	y plants less tl	han 3 in. D	OBH and
9.				greater than or equal	to 3.28 ft (1 m	) tall.	
10				Herb – All herbaceous	(non-woody)	plants, reg	gardless of
11				size, and woody plants	less than 3.2	8 ft tall.	
12				Woody vines - All woo	dy vines great	er than 3.	28 ft in
12.	73	= Total Cov	or	height.			
Woody Vino Stratum (Blot size: 20 ft )	/5	- 10tai Cov		Hydrophytic Vegetatio	on Present?	/esN	lo 🏒
1		·		-			
2.		<u> </u>		-			
3				-			
4		<u> </u>		-			
	0	= Total Cov	er				
Remarks: (Include photo numbers here or on a se	eparate sheet.)						

SOIL

### Sampling Point: W-NSD-01\_UPL-3

0-16       10YR 4/2       100	1-16       10YR 4/2       100		% Color (mo	ist) % Type	e <sup>1</sup> Loc <sup>2</sup>	Texture	Remarks
pe: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains.       2Location: PL = Pore Lining, M = Matrix.         Indicators:       Indicators for Problematic Hydric Soils?         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, MLRA 149B)         Histosol (A2)       Thin Dark Surface (S9) (LRR R, MLRA 149B)         Black Histic (A3)       Loamy Mucky Mineral (F1) (LRR K, L)         Hydrogen Suffide (A4)       Loamy Gleyed Matrix (F2)         Stratified Layers (A5)       Depleted Matrix (F2)         Sandy Mucky Mineral (F1)       Polyvalue Below Surface (S6)         Thin Dark Surface (F6)       Thin Dark Surface (S7) (LRR K, L)         Thick Dark Surface (A11)       Redox Dark Surface (F7)         Sandy Mucky Mineral (F1)       Redox Depressions (F8)         Sandy Mucky Mineral (S1)       Redox Depressions (F8)         Sandy Redox (S5)       Becket Parent Material (F21)         Stripped Matrix (S6)       Red Parent Material (F21)         Dark Surface (S7) (LRR R, L)       Weits Spodic (TA6) (MLRA 144A, 145, 149B)         Sandy Mucky Mineral (S1)       Redox Depressions (F8)         Sandy Redox (S5)       Beck Parent Material (F21)         Stripped Matrix (S6)       Sender and thetrial (F21)         Dark Surface (S7) (LRR R, MLRA 149B)       Other (Explain in Remarks)         ficators of hydrophy		0-16 10YR 4/2	100			Silty Clay Loam	
be: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains.       2Location: PL = Pore Lining, M = Matrix.         Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, MLRA 149B)       2 cm Muck (A10) (LRR K, L, MLRA 149B)         Histosol (A2)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       2 com Muck (A10) (LRR K, L, MLRA 149B)         Black Histic (A3)       Loamy Mucky Mineral (F1) (LRR K, L)       5 cm Mucky Peat or Peat (S3) (LRR K, L, R)         Stratified Layers (A5)       Depleted Matrix (F2)       Dark Surface (S7) (LRR K, L)         Depleted Below Dark Surface (A11)       Redox Dark Surface (F7)       Thin Dark Surface (S8) (LRR K, L)         Sandy Mucky Mineral (S1)       Redox Depressions (F8)       Peledmot Floodplain Soils (F19) (MLRA 144, 145, 149B)         Sandy Redox (S5)       Red Parent Material (F21)       Very Shallow Dark Surface (T12)         Stripped Matrix (S6)       Red Parent Material (F21)       Very Shallow Dark Surface (T12)         Dark Surface (S7) (LRR R, MLRA 149B)       Cost (S0) (LRR R, MLRA 149B)       Itematerial (F21)         Stripped Matrix (S6)       Red Parent Material (F21)       Very Shallow Dark Surface (T12)         Dark Surface (S7) (LRR R, MLRA 149B)       Other (Explain in Remarks)       Itematerial (F21)         Iterator       None       Hydric Soil Present?	be: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains.       *Location: PL = Pore Lining, M = Matrix.         Indicators:       Indicators:         Histos O(A1)       Polyvalue Below Surface (S8) (LRR R, MLRA 1498)         Jack Histic (A3)       Loamy Mucky Mineral (F1) (LRR K, L)         Stratified Layers (A5)       Depleted Matrix (F2)         Depleted Matrix (F3)       Depleted Matrix (F2)         Sandy Mucky Mineral (F1)       Depleted Matrix (F3)         Sandy Mucky Mineral (F1)       Depleted Matrix (F3)         Sandy Mucky Mineral (F1)       Depleted Matrix (F3)         Sandy Mucky Mineral (F1)       Redox Depressions (F8)         Sandy Mucky Mineral (F3)       Depleted Matrix (F3)         Sandy Mucky Mineral (F3)       Depleted Matrix (F3)         Sandy Mucky Mineral (F3)       Depleted Matrix (F3)         Sandy Redox (F5)       Mesic Spodic (TA6) (MLRA 144A, 145, 149B)         Stripped Matrix (F3)       Red Parent Material (F21)         Dark Surface (F7) (LRR K, MLRA 149B)       Very Shallow Dark Surface (TF12)         Dark Surface (S7) (LRR K, MLRA 149B)       Other (Explain in Remarks)         licators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.       Tritrite Layer (If Observed):         Type:       None       Hydric Soil Present?       Yes						
we: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. <sup>2</sup> Location: PL = Pore Lining, M = Matrix.         ric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histic Soil (A1)       Polyvalue Below Surface (S9) (LRR R, MLRA 149B)       2 cm Muck (A10) (LRR K, L, MLRA 149B)         Histic Epipedon (A2)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       Coast Prairie Redox (A16) (LRR K, L, R)         Hydrogen Sulfide (A4)       Loamy Mucky Mineral (F1) (LRR K, L)       5 cm Mucky Peat or Peat (S3) (LRR K, L)         Hydrogen Sulfide (A4)       Depleted Matrix (F2)       Dark Surface (S7) (LRR K, L)         Depleted Matrix (F3)       Polyvalue Below Surface (S6)       Thin Dark Surface (S7) (LRR K, L)         Sandy Below Dark Surface (A11)       Redox Depressions (F8)       Piedmont Floodplain Soils (F19) (MLRA 144, 145, 149B)         Sandy Gleyed Matrix (S6)       Red Parent Material (F12)       Very Shallow Dark Surface (TF2)         Stripped Matrix (S6)       Very Shallow Dark Surface (TF12)       Other (Explain in Remarks)         icators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.       Trice         Trice       None       Hydric Soil Present?       Yes No         Type:       None       Hydric Soil Present?       Yes	me: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains.       *Location: PL = Pore Lining, M = Matrix.         indicators :       indicators for Problematic Hydric Soils*:         istosol (A1)       Polyvalue Below Surface (S9) (LRR R, MLRA 149B)         istosol (A1)       Loamy Mucky Mineral (F1) (LRR K, L)         ydrogen Sulfide (A4)       Loamy Gleyed Matrix (F2)         Depleted Matrix (F3)       Depleted Dark Surface (F5)         Stratified Layers (A5)       Depleted Dark Surface (F7)         Dick Dark Surface (A11)       Redox Dark Surface (F7)         Stratified Layers (A5)       Depleted Dark Surface (F7)         Stratified Layers (S5)       Depleted Dark Surface (F7)         Stratified Sold Mucky Mineral (S1)       Redox Depressions (F8)         Sandy Gleyed Matrix (S6)       Pedmont Floodplain Soils (F19) (MLR K, L498)         Stripped Matrix (S6)       Red Parent Material (F21)         Dark Surface (S7) (LRR R, MLRA 149B)       Very Shallow Dark Surface (T12)         icators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.       Yes						
e: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains.       ?Location: PL = Pore Lining, M = Matrix.         itic Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         itistosol (A1)      Polyvalue Below Surface (S8) (LRR R, MLRA 149B)         istic Epipedon (A2)      Thin Dark Surface (S9) (LRR R, MLRA 149B)         istic CA3      Loamy Mucky Mineral (F1) (LRR K, L)         Hydrogen Sulfide (A4)      Loamy Gleyed Matrix (F2)         itratified Layers (A5)      Depleted Matrix (F3)         Depleted Below Dark Surface (A11)       Redox Dark Surface (F6)         Fink Dark Surface (A12)      Depleted Dark Surface (F7)         iandy Mucky Mineral (S1)	e: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. <sup>4</sup> Location: PL = Pore Lining, M = Matrix. Indicators: Indicators: Istoc Soil Indicators: Istoc Soil Indicators: Istoc Epipedon (A2)						
e: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. <sup>2</sup> Location: PL = Pore Lining, M = Matrix.         iric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)      Polyvalue Below Surface (S8) (LRR R, MLRA 149B)         Histic Epipedon (A2)      Thin Dark Surface (S9) (LRR R, MLRA 149B)         Histic (A3)      Loamy Mucky Mineral (F1) (LRR K, L)         Hydrogen Sulfide (A4)      Loamy Gleyed Matrix (F2)         Stratified Layers (A5)      Depleted Matrix (F3)         Depleted Below Dark Surface (A11) Redox Dark Surface (F6)      Thin Dark Surface (F7)         Thin Dark Surface (A12)      Depleted Dark Surface (F7)         Filte Dark Surface (S1)      Redox Depressions (F8)         Sandy Gleyed Matrix (S4)	e: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. 2Location: PL = Pore Lining, M = Matrix.   ric Soil Indicators: Indicators for Problematic Hydric Soils?:   tistic Epipedon (A2) Thin Dark Surface (S9) (LRR R, MLRA 149B)   Jack Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L)   tydrogen Sulfide (A4) Loamy Gleyed Matrix (F2)   tratfide Layers (A5) Depleted Matrix (F3)   Depleted Below Dark Surface (A11) Redox Dark Surface (F6)   Thin Dark Surface (A12) Depleted Dark Surface (F7)   Sandy Gleyed Matrix (S4) Redox Depressions (F8)   Sandy Redox (S5) Redox Depressions (F8)   Stripped Matrix (S6) Wery Shallow Dark Surface (T12)   Dark Surface (S7) (LRR R, MLRA 149B)   icators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.   ritrive Layer (if observed):   Type:   Dept (inches):						
Histosol (A1)      Polyvalue Below Surface (S8) (LRR R, MLRA 149B)         Histosol (A2)      Thin Dark Surface (S9) (LRR R, MLRA 149B)         Histosol (A2)      Thin Dark Surface (S9) (LRR R, MLRA 149B)         Black Histic (A3)      Loamy Mucky Mineral (F1) (LRR K, L)         Hydrogen Sulfide (A4)      Loamy Gleyed Matrix (F2)         Stratified Layers (A5)      Depleted Matrix (F3)         Depleted Below Dark Surface (A11)       Redox Dark Surface (F6)         Thin Dark Surface (F7)      Thin Dark Surface (F7)         Sandy Mucky Mineral (S1)      Redox Depressions (F8)         Sandy Gleyed Matrix (S4)      Medox Depressions (F8)         Sandy Redox (S5)	Initiation of the construction of t	e: C = Concentration, D = E	Depletion, RM = Red	uced Matrix, MS	5 = Masked Sand G	rains. <sup>2</sup> Location: PL = P	pre Lining, M = Matrix.
Histic Epipedon (A2)	Initiation of the surface (SP) (LRR R, MLRA 149B)	Histosol (A1)	Polyvalı	e Below Surface		149B)	
licators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. trictive Layer (if observed): Type:NoneHydric Soil Present? YesNo _✓ Depth (inches):	licators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. trictive Layer (if observed): Type: None Hydric Soil Present? Yes No _✓ Depth (inches): narks:	Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surfa Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, M	Thin Dai Loamy N Loamy C Depleter Redox D Redox D Redox D	rk Surface (S9) <b>(L</b> Mucky Mineral (F Gleyed Matrix (F3) d Matrix (F3) Dark Surface (F6) d Dark Surface ( Depressions (F8)	(I) (LRR K, L) (LRR K, L) 2)	2 cm Muc Coast Pra 5 cm Muc 5 cm Muc Dark Surf Polyvalue Thin Dark Iron-Man Piedmon Nesic Spo Red Pare Very Shal Other (Ex	irie Redox (A16) (LRR K, L, MLRA 149B) irie Redox (A16) (LRR K, L, R) ky Peat or Peat (S3) (LRR K, L, R) ace (S7) (LRR K, L) Below Surface (S8) (LRR K, L) Surface (S9) (LRR K, L) ganese Masses (F12) (LRR K, L, R) Floodplain Soils (F19) (MLRA 149B) odic (TA6) (MLRA 144A, 145, 149B) oth Material (F21) low Dark Surface (TF12) plain in Remarks)
trictive Layer (if observed): Type: None Hydric Soil Present? Yes No ✓ Depth (inches): narks:	Type: <u>None</u> Depth (inches): narks:	licators of hydrophytic vege	etation and wetland	hydrology must	t be present, unles	s disturbed or problema	tic.
narks:	narks:	trictive Layer (if observed): Type:	None		Hydric Soil Pre	sent?	Yes No⁄_
		narks:					

Vegetation Photos



Soil Photos

Photo of Sample Plot North



Photo of Sample Plot East Photo of Sample Plot South



Photo of Sample Plot West

# WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Riverside Solar	City/County: Chaumont, Jefferson	Sampling Date: 2020-June-02
Applicant/Owner: Geronimo	State: NY	Sampling Point: W-NSD-02_PEM-1
Investigator(s): Nick DeJohn, Other, Ben Popham	Section, Township, Range:	
Landform (hillslope, terrace, etc.): Depression	Local relief (concave, convex, none):	Concave Slope (%): 0 to 1
Subregion (LRR or MLRA): LRR R	Lat: 44.067146061 Long:	-76.1143743341 Datum: WGS84
Soil Map Unit Name: CIAChaumont silty clay, 0	to 3 percent slopes	NWI classification:
Are climatic/hydrologic conditions on the site typica	l for this time of year? Yes _∠_ No (If no	o, explain in Remarks.)
Are Vegetation, Soil, or Hydrology _	significantly disturbed? Are "Normal Circums	tances" present? Yes 🟒 No
Are Vegetation, Soil, or Hydrology _	naturally problematic? (If needed, explain ar	y answers in Remarks.)

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

Hydrophytic Vegetation Present?	Yes 🟒 No		
Hydric Soil Present?	Yes 🟒 No	Is the Sampled Area within a Wetland?	Yes 🯒 No _
Wetland Hydrology Present?	Yes 🟒 No	If yes, optional Wetland Site ID:	W-NSD-02
Remarks: (Explain alternative procedures	here or in a separate repo	rt)	
Covertype is PEM.			

#### HYDROLOGY

Wetland Hydrology Indicators:				
Primary Indicators (minimum of or	ne is required; check all th	nat apply)	Secondary Indicators (minimum o	of two required)
<ul> <li> Surface Water (A1)</li> <li> High Water Table (A2)</li> <li> Saturation (A3)</li> <li> Water Marks (B1)</li> <li> Sediment Deposits (B2)</li> </ul>	Water-S Aquatic Marl De Hydrog Oxidized	tained Leaves (B9) Fauna (B13) posits (B15) en Sulfide Odor (C1) d Rhizospheres on Living Roots (C3)	<ul> <li>Surface Soil Cracks (B6)</li> <li>Drainage Patterns (B10)</li> <li>Moss Trim Lines (B16)</li> <li>Dry-Season Water Table (C2)</li> <li>Crayfish Burrows (C8)</li> <li>Saturation Visible on Aerial Im</li> </ul>	nagery (C9)
Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Ima Sparsely Vegetated Concave Su	Presenc Recent Thin Mu agery (B7) Other (E rface (B8)	e of Reduced Iron (C4) Iron Reduction in Tilled Soils (C6) Ick Surface (C7) Explain in Remarks)	<ul> <li>Stunted or Stressed Plants (D</li> <li>Geomorphic Position (D2)</li> <li>Shallow Aquitard (D3)</li> <li>Microtopographic Relief (D4)</li> <li>FAC-Neutral Test (D5)</li> </ul>	1)
Field Observations:				
Surface Water Present?	Yes No 🟒	Depth (inches):	_	Y - N
Water Table Present?	Yes No 🟒	Depth (inches):	Wetland Hydrology Present?	Yes 🟒 No
Saturation Present?	Yes 🟒 No	Depth (inches): 0	_	
(includes capillary fringe)				
Remarks:	auge, monitoring well, ae	rial photos, previous inspections), i		

VEGETATION -- Use scientific names of plants.

Sampling Point: W-NSD-02\_PEM-1

1.	= Total Cov Yes = Total Cov Yes Yes Yes No No	er FAC er FACW FACW FAC OBL	Are OBL, FACW, or FAC Total Number of Domin Across All Strata: Percent of Dominant S Are OBL, FACW, or FAC Prevalence Index work Total % Cover OBL species FACW species FACU species FACU species UPL species Column Totals Prevalence In Hydrophytic Vegetation 1 - Rapid Test for H 2 - Dominance Te 3 - Prevalence Inc 4 - Morphological data in Remarks or on Problematic Hydr 1Indicators of hydric soc	: nant Species Species That : ssheet: <u>of:</u> <u>10</u> <u>40</u> <u>35</u> <u>0</u> <u>0</u> <u>85</u> nldex = B/A = <u>n Indicators:</u> Hydrophytic V est is >50% dex is ≤ 3.0 <sup>1</sup> I Adaptations <sup>1</sup> a separate sh rophytic Veget	3 100 Multiply I x 1 = x 2 = x 3 = (A) (A) (egetation (Provide s teet) tation <sup>1</sup> (Ex	(B) (A/B) By: 10 80 105 0 0 195 (B) supporting	
2.	= Total Cov Yes = Total Cov Yes Ves Yes No No	er FAC er FACW FAC OBL	Total Number of Domin         Across All Strata:         Percent of Dominant S         Are OBL, FACW, or FAC         Prevalence Index work         Total % Cover         OBL species         FACW species         FAC species         FACU species         OUL species         Column Totals         Prevalence In         Hydrophytic Vegetation        1 - Rapid Tist for Here        2 - Dominance Te        3 - Prevalence Inc        3 - Prevalence Inc        4 - Morphological         data in Remarks or on         Problematic Hydr         1Indicators of hydric sc	nant Species species That sheet: <u>fof:</u> 10 40 35 0 0 85 ndex = $B/A =$ n Indicators: Hydrophytic V est is >50% dex is $\leq 3.0^1$ I Adaptations <sup>1</sup> a separate sh rophytic Veget	3 $100$ $x 1 =$	(B) (A/B) 10 80 105 0 0 195 (B) supporting	
3.	= Total Cov Yes = Total Cov Yes = Total Cov Yes Yes No No	er FAC er FACW FAC OBL	<ul> <li>Percent of Dominant S</li> <li>Are OBL, FACW, or FAC</li> <li>Prevalence Index work</li> <li><u>Total % Cover</u></li> <li>OBL species</li> <li>FACW species</li> <li>FACU species</li> <li>Golumn Totals</li> <li><u>Prevalence In</u></li> <li>Hydrophytic Vegetation</li> <li>1- Rapid Test for H</li> <li>2 - Dominance Te</li> <li>2 - Dominance Te</li> <li>4 - Morphological</li> <li>data in Remarks or on</li> <li>Problematic Hydr</li> <li>Indicators of hydric sc</li> </ul>	species That scheet: 10 40 35 0 0 85 n Indicators: Hydrophytic V est is >50% dex is $\leq 3.0^1$ I Adaptations <sup>1</sup> a separate sh rophytic Veget	100 $x 1 =$	(A/B) 10 80 105 0 0 195 (B) supporting plain)	
5.	= Total Cov Yes = Total Cov = Total Cov Yes Yes No No	er FAC er FACW FAC OBL	<ul> <li>Prevalence Index work</li> <li><u>Total % Cover</u></li> <li>OBL species</li> <li>FACW species</li> <li>FAC species</li> <li>FACU species</li> <li>Column Totals</li> <li><u>Prevalence In</u></li> <li><u>Hydrophytic Vegetation</u></li> <li><u>1</u>- Rapid Test for I</li> <li><u>4</u> - Morphological</li> <li>data in Remarks or on</li> <li><u>Problematic Hydr</u></li> <li><u>1</u>- Indicators of hydric sc</li> </ul>	rsheet: rof: 10 40 35 0 0 85 n Indicators: Hydrophytic V est is >50% dex is ≤ 3.0 <sup>1</sup> I Adaptations <sup>1</sup> a separate sh	Multiply 1 x 1 = x 2 = x 3 = x 4 = (A) 2.3 (egetation (Provide size) tation <sup>1</sup> (Ex	By: 10 80 105 0 0 195 (B) 195 (B) supporting plain)	
6.	= Total Cov Yes 	er FAC er FACW FAC OBL	<ul> <li><u>Total % Cover</u></li> <li>OBL species</li> <li>FACW species</li> <li>FAC species</li> <li>FACU species</li> <li>UPL species</li> <li>Column Totals</li> <li><u>Prevalence In</u></li> <li><u>Hydrophytic Vegetation</u></li> <li><u>1</u>- Rapid Test for H</li> <li><u>2</u> - Dominance Te</li> <li><u>3</u> - Prevalence Inc</li> <li><u>4</u> - Morphological</li> <li>data in Remarks or on</li> <li><u>Problematic Hydro Species</u></li> </ul>	n Indicators: Hydrophytic V st is >50% dex is ≤ 3.0 <sup>1</sup> I Adaptations <sup>1</sup> a separate sh	$\begin{array}{c} \text{Multiply I} \\ \times 1 = \\ \times 2 = \\ \\ \times 3 = \\ \\ \times 4 = \\ \\ (A) \\ \\ 2.3 \end{array}$	By: 10 80 105 0 105 (B) 195 (B) supporting plain)	
7.       0         Sapling/Shrub Stratum (Plot size: _15 ft_)       10         2.       10         3.       -         4.       -         5.       -         6.       -         7.       -         10       -         4.       -         5.       -         6.       -         7.       -         10       -         Herb Stratum (Plot size: _5 ft_)       10         1.       Anemone canadensis       30         2.       Euthamia graminifolia       20         3.       Juncus effusus       10         4.       Carex grayi       10         5.       -       -         6.       -       -         7.       -       -         8.       -       -         9.       -       -         10.       -       -         11.       -       -	= Total Cov Yes = Total Cov = Total Cov Yes Yes No No	er FAC er FACW FAC OBL	OBL species     FACW species     FAC species     FAC species     FACU species     UPL species     Olumn Totals    1- Rapid Test for H     J- Rapid Test for H    2 - Dominance Te    3 - Prevalence Inc    4 - Morphological     data in Remarks or on    Problematic Hydr     'Indicators of hydric sco	10 40 35 0 0 85 n Indicators: Hydrophytic V est is >50% dex is ≤ 3.0 <sup>1</sup> I Adaptations <sup>1</sup> a separate sh rophytic Veget	x 1 = - $x 2 = -$ $x 3 = -$ $x 4 = -$ $x 5 = -$ $(A) -$ $(A$	10 80 105 0 195 (B) 195 (B)	
0           Sapling/Shrub Stratum (Plot size: _15 ft)           1. Cornus racemosa         10           2.	= Total Cov Yes = Total Cov = Total Cov Yes Yes No No	er FAC er FACW FAC OBL	<ul> <li>OBL Species</li> <li>FACW species</li> <li>FAC species</li> <li>FACU species</li> <li>UPL species</li> <li>Column Totals</li> <li>Prevalence In</li> <li>Hydrophytic Vegetation</li> <li>1 - Rapid Test for I</li> <li>2 - Dominance Te</li> <li>3 - Prevalence Inc</li> <li>4 - Morphological</li> <li>data in Remarks or on</li> <li>Problematic Hydr</li> <li>1Indicators of hydric social</li> </ul>	$\frac{10}{40}$ $\frac{35}{0}$ $0$ $\frac{85}{10}$ n Indicators: Hydrophytic V est is >50% dex is ≤ 3.0 <sup>1</sup> I Adaptations <sup>1</sup> a separate sh rophytic Veget	x + = - $x 2 = -$ $x 3 = -$ $x 4 = -$ $x 5 = -$ $(A) -$ $(A$	80 105 0 195 (B) supporting	
Sapling/Shrub Stratum (Plot size: _15 ft)         10           1.         Cornus racemosa         10           2.	Yes = Total Cov Yes Yes No No	FAC er FACW FAC OBL	<ul> <li>FACW species</li> <li>FAC species</li> <li>FACU species</li> <li>UPL species</li> <li>Column Totals</li> <li>Prevalence Ir</li> <li>Hydrophytic Vegetation</li> <li>1 - Rapid Test for I</li> <li>2 - Dominance Te</li> <li>3 - Prevalence Inc</li> <li>4 - Morphological</li> <li>data in Remarks or on</li> <li>Problematic Hydr</li> <li>1Indicators of hydric soc</li> </ul>	40 35 0 0 85 n Indicators: Hydrophytic V est is >50% dex is ≤ 3.0 <sup>1</sup> I Adaptations <sup>1</sup> a separate sh rophytic Veget	x 2 = - $x 3 = -$ $x 4 = -$ $x 5 = -$ $(A)	80 105 0 195 (B) supporting	
1. Cornus racemosa       10         2.       10         3.       10         4.       10         5.       10         6.       10         7.       10         Herb Stratum (Plot size: _5 ft)         1. Anemone canadensis       30         2. Euthamia graminifolia       20         3. Juncus effusus       10         4. Carex grayi       10         5. Cornus racemosa       5         6.       7         9.       10         10.       11	Yes = Total Cov Yes Yes No No	er FAC FACW FAC OBL	<ul> <li>FAC species</li> <li>FACU species</li> <li>UPL species</li> <li>Column Totals</li> <li>Prevalence In</li> <li>Hydrophytic Vegetation</li> <li>1 - Rapid Test for I</li> <li>2 - Dominance Te</li> <li>3 - Prevalence Inc</li> <li>4 - Morphological</li> <li>data in Remarks or on</li> <li>Problematic Hydri</li> <li>1Indicators of hydric social</li> </ul>	35 0 85 ndex = B/A = n Indicators: Hydrophytic V est is >50% dex is ≤ 3.0 <sup>1</sup> I Adaptations <sup>1</sup> a separate sh rophytic Veget	x 3 = $x 4 = $ $x 5 = $ $(A) $ $(A) $ $(Provide s)$ $(Provide s)$ $(Provide s)$ $(a c)$ $(a c)$ $(b c)$	105 0 195 (B) supporting	
10       10         2.	= Total Cov Yes Yes No No	er FACW FAC OBL	<ul> <li>FACU species</li> <li>UPL species</li> <li>Column Totals</li> <li>Prevalence Ir</li> <li>Hydrophytic Vegetation</li> <li>1- Rapid Test for I</li> <li>2 2 - Dominance Te</li> <li>2 3 - Prevalence Inc</li> <li>4 - Morphological</li> <li>data in Remarks or on</li> <li>Problematic Hydr</li> <li>1Indicators of hydric soc</li> </ul>	0 $0$ 85 ndex = B/A = n Indicators: Hydrophytic V est is >50% dex is ≤ 3.0 <sup>1</sup> I Adaptations <sup>1</sup> a separate sh rophytic Veget	x 4 = x 5 = (A) 'egetation '(Provide s heet) tation <sup>1</sup> (Ex	0 0 195 (B) supporting plain)	
2.	= Total Cov Yes Yes No No	er FACW FAC OBL	<ul> <li>UPL species</li> <li>Column Totals</li> <li>Prevalence In</li> <li>Hydrophytic Vegetation</li> <li>1- Rapid Test for I</li> <li>2 - Dominance Te</li> <li>3 - Prevalence Inc</li> <li>4 - Morphological</li> <li>data in Remarks or on</li> <li>Problematic Hydr</li> <li>1Indicators of hydric so</li> </ul>	0 85 ndex = B/A = n Indicators: Hydrophytic V est is >50% dex is ≤ 3.0 <sup>1</sup> I Adaptations <sup>1</sup> a separate sh rophytic Veget	x 5 =(A) 2.3 /'egetation (Provide s teet) tation <sup>1</sup> (Ex	0 195 (B) supporting plain)	
3.	= Total Cov Yes Yes No No	er FACW FAC OBL	<ul> <li>Column Totals</li> <li>Prevalence In</li> <li>Hydrophytic Vegetation</li> <li>1- Rapid Test for I</li> <li>2 2 - Dominance Te</li> <li>3 - Prevalence Inc</li> <li>4 - Morphological</li> <li>data in Remarks or on</li> <li>Problematic Hydr</li> <li>1Indicators of hydric soc</li> </ul>	85 ndex = $B/A =$ n Indicators: Hydrophytic V est is >50% dex is ≤ 3.0 <sup>1</sup> I Adaptations <sup>1</sup> a separate sh rophytic Veget	(A) 2.3 'egetation (Provide s leet) tation <sup>1</sup> (Ex	195 (B)	
4.	= Total Cov Yes Yes No No	er FACW FAC OBL	<ul> <li>Prevalence Ir</li> <li>Hydrophytic Vegetation</li> <li>1- Rapid Test for I</li> <li>2 - Dominance Te</li> <li>3 - Prevalence Inc</li> <li>4 - Morphological</li> <li>data in Remarks or on</li> <li>Problematic Hydr</li> <li>1Indicators of hydric soc</li> </ul>	ndex = $B/A =$ n Indicators: Hydrophytic V est is >50% dex is ≤ 3.0 <sup>1</sup> I Adaptations <sup>1</sup> a separate sh rophytic Veget	2.3 /egetation l (Provide s neet) tation <sup>1</sup> (Ex	supporting plain)	
5.	= Total Cov Yes Yes No No	er FACW FAC OBL	<ul> <li>Hydrophytic Vegetation</li> <li>1- Rapid Test for I</li> <li>✓ 2 - Dominance Te</li> <li>✓ 3 - Prevalence Inc</li> <li>▲ 4 - Morphological</li> <li>data in Remarks or on</li> <li>Problematic Hydr</li> <li>1Indicators of hydric so</li> </ul>	n Indicators: Hydrophytic V est is >50% dex is ≤ $3.0^1$ I Adaptations <sup>1</sup> a separate sh rophytic Veget	(Provide s leet) tation <sup>1</sup> (Ex	supporting plain)	
6.	= Total Cov Yes Yes No No	er FACW FAC OBL	<ul> <li>1- Rapid Test for I</li> <li>1- Rapid Test for I</li> <li>2 - Dominance Te</li> <li>3 - Prevalence Inc</li> <li>4 - Morphological</li> <li>data in Remarks or on</li> <li>Problematic Hydr</li> <li>1Indicators of hydric so</li> </ul>	Hydrophytic V est is >50% dex is ≤ $3.0^1$ I Adaptations <sup>1</sup> a separate sh rophytic Veget	(egetation (Provide s leet) tation <sup>1</sup> (Ex	supporting plain)	
7.	= Total Cov Yes Yes No No	FACW FAC OBL	<ul> <li>2 - Dominance Te</li> <li>2 - Dominance Te</li> <li>3 - Prevalence Inc</li> <li>4 - Morphological</li> <li>data in Remarks or on</li> <li>Problematic Hydr</li> <li>1Indicators of hydric soc</li> </ul>	est is >50% dex is $\leq 3.0^1$ I Adaptations <sup>1</sup> a separate sh rophytic Veget	(Provide s leet) tation <sup>1</sup> (Ex	supporting plain)	
10           Herb Stratum (Plot size: _5 ft)           1. Anemone canadensis         30           2. Euthamia graminifolia         20           3. Juncus effusus         10           4. Carex grayi         10           5. Cornus racemosa         5           6.	= Total Cov Yes Yes No No	FACW FAC OBL	2 Dominance reconstruction of the second secon	dex is $\leq 3.0^{1}$ l Adaptations <sup>1</sup> a separate sh rophytic Veget	(Provide s leet) tation <sup>1</sup> (Ex	supporting plain)	
Herb Stratum (Plot size: _5 ft)         1. Anemone canadensis       30         2. Euthamia graminifolia       20         3. Juncus effusus       10         4. Carex grayi       10         5. Cornus racemosa       5         6.	Yes Yes No No	FACW FAC OBL	data in Remarks or on     Problematic Hydr     'Indicators of hydric sc	l Adaptations <sup>1</sup> a separate sh rophytic Veget	(Provide s leet) tation <sup>1</sup> (Ex	supporting plain)	
1. Anemone canadensis     30       2. Euthamia graminifolia     20       3. Juncus effusus     10       4. Carex grayi     10       5. Cornus racemosa     5       6.	Yes Yes No No	FACW FAC OBL	<ul> <li>data in Remarks or on</li> <li> Problematic Hydr</li> <li> 1Indicators of hydric sc</li> </ul>	a separate sh rophytic Veget	tation <sup>1</sup> (Ex	plain)	
2.       Euthamia graminifolia       20         3.       Juncus effusus       10         4.       Carex grayi       10         5.       Cornus racemosa       5         6.	Yes No No	FAC OBL	<ul> <li>Problematic Hydr</li> <li>Indicators of hydric so</li> </ul>	rophytic Vege	tation <sup>1</sup> (Ex	plain)	
3. Juncus effusus       10         4. Carex grayi       10         5. Cornus racemosa       5         6.	No No	OBL	Indicators of hydric so			piairi)	
4.     Carex grayi     10       5.     Cornus racemosa     5       6.	No		- Indicators of figuric sc	<b><i><b>NII</b> NI /i></b> <i><i>NI</i> <b><i>NI</i></b> <i><i>NI NI <i>NI NI <i>NI NI NI </i></i></i></i></i>	$a$ $n_{a}$ $a$ $n_{a}$ $a$ $n_{a}$	w must ha	
5.     Cornus racemosa     5       6.		FACIN	present unless disturb	and or problem	u Hyurolog matic	sy must be	
6.	No	FAC		on Strata	natic		
			Trop Woody plants 2	in (7.6 cm) or	moroin	liamotor at	
10.			hree = woody plants 5	agardless of h	oight	nameter at	
9			- Sanling/shruh - Wood	v plants less th	han 3 in D	BH and	
9			greater than or equal t	to 3 28 ft (1 m)	) tall	biranu	
10			Herb – All herbaceous (non-woody) plants, reg			ardless of	
11						ai uless oi	
			Woody vines – All woody vines		reater than 3.28 ft in		
12			height.			2010111	
75	= Total Co	er		Drocont2		<u> </u>	
Woody Vine Stratum (Plot size: <u>30 ft</u> )			Hydrophytic vegetatio	on Present?	res N	0	
1			_				
2							
3.							
4.							
0	= Total Co	er	-				
	-						

SOIL

-9       10YR 4/1       95       7.5YR 4/6       5       C       M/PL       Clay Loam         20       10YR 5/1       85       7.5YR 4/6       15       C       M       Clay Loam         20       10YR 5/1       85       7.5YR 4/6       15       C       M       Clay Loam         20       10YR 5/1       85       7.5YR 4/6       15       C       M       Clay Loam         20       10YR 5/1       85       7.5YR 4/6       15       C       M       Clay Loam         20       10YR 5/1       85       7.5YR 4/6       15       C       M       Clay Loam         20       10YR 5/1       85       7.5YR 4/6       15       C       M       Clay Loam         20       10YR 5/1       85       7.5YR 4/6       15       C       M       Clay Loam       M       M         20       10YR 5/1       10       10       10       10       M	iches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	e	Remarks
20       10YR 5/1       85       7.5YR 4/6       15       C       M       Clay Loam         20       10YR 5/1       85       7.5YR 4/6       15       C       M       Clay Loam         20       10YR 5/1       85       7.5YR 4/6       15       C       M       Clay Loam         20       10YR 5/1       85       7.5YR 4/6       15       C       M       Clay Loam         20       10	0 - 9	10YR 4/1	95	7.5YR 4/6	5	С	M/PL	Clay Loa	am	
e: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains.       *Location: PL = Pore Lining, M = Matrix.         ic Soil Indicators:       Indicators for Problematic Hydric Soils*:         istict Epipedon (A2)       Thin Dark Surface (S9) (LRR R, MLRA 149B)         jack Histic (A3)       Loamy Mucky Mineral (F1) (LRR K, L)         jack Histic (A3)       Loamy Mucky Mineral (F1) (LRR K, L)         jack Histic (A3)       Depleted Matrix (F2)         jack Kurface (A11)       Redox Dark Surface (F6)         mick Dark Surface (A11)       Redox Dark Surface (F7)         mady Mucky Mineral (S1)       Depleted Matrix (F2)         jack Mineral (S1)       Redox Dark Surface (F7)         andy Gleyed Matrix (S4)       Polyvalue Below Surface (F7)         andy Gleyed Matrix (S4)       Redox Depressions (F8)         jandy Gleyed Matrix (S6)       Red Parent Material (F21)         bark Surface (S7) (LRR K, LAR 144B)       Other (Explain in Remarks)         cators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.         rictive Layer (if observed):       None         Type:       None         Depth (inches):       None         arks:       Hydric Soil Present?       Yes_No	) - 20	10YR 5/1	85	7.5YR 4/6	15	С	М	Clay Loa	am	
e: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. <sup>2</sup> Location: PL = Pore Lining, M = Matrix.         ic Soil Indicators:       Indicators for Problematic Hydric Soils?:         iistosol (A1)       Polyvalue Below Surface (S9) (LRR R, MLRA 149B)       2 cm Muck (A10) (LRR K, L, RA         listic Epipedon (A2)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       2 coast Prairie Redox (A16) (LRR K, L, R)         listic Epipedon (A2)       Thin Dark Surface (S9) (LRR R, L)       5 com Mucky Peat or Peat (S3) (LRR K, L, R)         lydrogen Sulfide (A4)       Loamy Gleyed Matrix (F2)       Dark Surface (S7) (LRR K, L)         lydrogen Sulfide (A4)       Loamy Gleyed Matrix (F2)       Dark Surface (S9) (LRR K, L)         hin bark Surface (A11)       Redox Dark Surface (F7)       Thin Dark Surface (S9) (LRR K, L)         hin bark Surface (S1)       Depleted Dark Surface (F7)       Thin Dark Surface (S9) (LRR K, L)         andy Gleyed Matrix (S4)       Depleted Dark Surface (F7)       Thin Dark Surface (S9) (LRK K, L, R)         andy Redox (S5)       Meeis Spociic (TA6) (MLRA 1449B)       Piedmont Roodplain Soils (F19) (MLRA 149B)         actors of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.       Trite Tet Payer (f observed):         Type:       None       Hydric Soil Present?       Yes No         Depth (inches):       None <td< td=""><td></td><td></td><td></td><td></td><td>. —</td><td></td><td></td><td></td><td></td><td></td></td<>					. —					
e: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains.       *Location: PL = Pore Lining, M = Matrix.         it Soil Indicators:       Indicators for Problematic Hydric Soils?         listic Epipedon (A2)			- —		· <u> </u>					
e: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. <sup>2</sup> Location: PL = Pore Lining, M = Matrix.         ic Soil Indicators:       Indicators for Problematic Hydric Soils?         listic Epipedon (A2)       Thin Dark Surface (S8) (LRR R, MLRA 149B)       2 cm Muck (A10) (LRR K, L, R)         lack Histic (A3)       Loamy Mucky Mineral (F1) (LRR K, L)       5 cm Muck (A10) (LRR K, L, R)         ylack Histic (A3)       Loamy Mucky Mineral (F1)       Dark Surface (S7) (LRR K, L)         ylack get (A11)       Redox Dark Surface (F6)       Dark Surface (S7) (LRR K, L)         hick Dark Surface (A12)       Depleted Matrix (F3)       Polyvalue Below Surface (S9) (LRR K, L)         upolyted Below Dark Surface (A11)       Redox Depressions (F8)       Polyvalue Below Surface (S9) (LRR K, L)         andy Mucky Mineral (S1)       Redox Depressions (F8)       Piedmont Floodplain Soils (F19) (MLRA 149B)         andy Gleyed Matrix (S6)       Red Parent Material (F21)       Very Shallow Dark Surface (TF12)         ark Surface (S7) (LRR K, MLRA 149B)       Very Shallow Dark Surface (TF12)       Other (Explain in Remarks)         cators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.       No					. —					
e: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains.       ?Location: PL = Pore Lining, M = Matrix.         ic Soil Indicators:       Indicators for Problematic Hydric Soils?:         listic Epipedon (A2)			- —		· <u> </u>					
e: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. <sup>2</sup> Location: PL = Pore Lining, M = Matrix.         ic Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         listosol (A1)					. —					
e: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. <sup>2</sup> Location: PL = Pore Lining, M = Matrix.         ic Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         listosol (A1)      Polyvalue Below Surface (S8) (LRR R, MLRA 149B)      2 cm Muck (A10) (LRR K, L, MLRA 149B)         listic Epipedon (A2)      Thin Dark Surface (S9) (LRR R, MLRA 149B)       Coast Prairie Redox (A16) (LRR K, L, R)         liack Histic (A3)      Loamy Mucky Mineral (F1) (LRR K, L)      S cm Mucky Peat or Peat (S3) (LRR K, L, R)         lydrogen Sulfide (A4)      Loamy Gleged Matrix (F3)      Dark Surface (S1) (LRR K, L)         lydrogen Sulfide Layers (A5)      Depleted Matrix (F3)      Dolyvalue Below Surface (S9) (LRR K, L)         lydrogen Sulfide (A11)       Redox Dark Surface (F7)      Thin Dark Surface (S1) (LRR K, L, R)         andy Mucky Mineral (S1)					·					
e: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains.       'Location: PL = Pore Lining, M = Matrix.         ic Soil Indicators:       Indicators for Problematic Hydric Soils?:         listosol (A1)      Polyvalue Below Surface (S8) (LRR R, MLRA 149B)         listic Epipedon (A2)      Thin Dark Surface (S9) (LRR R, MLRA 149B)         liack Histic (A3)      Loamy Mucky Mineral (F1) (LRR K, L)         lydrogen Sulfide (A4)      Loamy Gieyed Matrix (F2)         lydrogen Sulfide Layers (A5)										
it Sum Mutators.       Polyvalue Below Surface (S8) (LRR R, MLRA 149B)         itsitsc Epipedon (A2)       Thin Dark Surface (S9) (LRR R, MLRA 149B)         itsitsc Epipedon (A2)       Thin Dark Surface (S9) (LRR R, MLRA 149B)         itsitsc Epipedon (A2)       Loamy Mucky Mineral (F1) (LRR K, L)         itsitsc Epipedon (A2)       Loamy Mucky Mineral (F1) (LRR K, L)         itsitsc Epipedon (A2)       Loamy Mucky Mineral (F1) (LRR K, L)         itsits Epipedon (A2)       Loamy Mucky Mineral (F1) (LRR K, L)         itsits Epipedon (A2)       Depleted Matrix (F2)         itsits Epipedon Surface (A5)       Depleted Matrix (F3)         itsits Epipedon Surface (A1)       Redox Dark Surface (F6)         itsits Mucky Mineral (S1)       Depleted Dark Surface (F7)         itsits C5)       Depleted Dark Surface (F7)         itsits C50       Red ox Depressions (F8)         itsits C50       Mesic Spodic (TA6) (MLRA 1442A, 145, 149B)         itsits C50       Red Parent Material (F21)         itsitse C50 (LRR K, MLRA 149B)       Very Shallow Dark Surface (TF12)         itsits C50       Red Parent Material (F21)         itsits C50       Peidemont Floodplain Soils (F12)         itsits C50       Red Parent Material (F21)         itsits C50       Very Shallow Dark Surface (TF12)         itsits Cators of hydrop	e: C = C	Concentration, D =	Deplet	tion, RM = Reduce	ed Ma	itrix, MS =	= Masked	Sand Grains. <sup>2</sup>	Location: PL	- = Pore Lining, M = Matrix.
<pre>listic Epipedon (A2)Thin Dark Surface (S9) (LRR R, MLRA 149B) lack Histic (A3)Loamy Mucky Mineral (F1) (LRR K, L) ydrogen Sulfide (A4)Loamy Gleyed Matrix (F2)S cm Mucky Peat or Peat (S3) (LRR K, L, R) tratified Layers (A5)Depleted Matrix (F3)Depleted Dark Surface (F6)Thin Dark Surface (S9) (LRR K, L) neloted Below Dark Surface (A12)Depleted Dark Surface (F7)Thin Dark Surface (S9) (LRR K, L) andy Mucky Mineral (S1)Redox Depressions (F8)N redox Depressions (F8)N redox (S5)Red Parent Material (F21)Very Shallow Dark Surface (TF12)N there is present, unless disturbed or problematic. itcive Layer (if observed):NoneNoneNoneNoneNoNoNoNoNoNoNoNoNoNoNoNoNo</pre>	listoso	l (A1)		Polyvalue E	Below	Surface (	(S8) <b>(LRR</b>	R, MLRA 149B)	2 cm	
Hack Histic (A3)Loamy Mucky Mineral (F1) (LRR K, L)5 cm Mucky Peat or Peat (S3) (LRR K, L, R) bydrogen Sulfide (A4)Loamy Gleyed Matrix (F2)5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Depleted Below Dark Surface (A11) Redox Dark Surface (F6)Thin Dark Surface (S9) (LRR K, L) hick Dark Surface (A12)Depleted Dark Surface (F7)Iron-Manganese Masses (F12) (LRR K, L, R) piedmont Floodplain Soils (F19) (MLRA 149B) andy Gleyed Matrix (S6)Redox Depressions (F8)Red Parent Material (F21)Very Shallow Dark Surface (TF12)Other (Explain in Remarks) cators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. rictive Layer (if observed): Type:None Depth (inches):	listic Ep	pipedon (A2)		Thin Dark S	surfac	e (S9) <b>(LR</b>	R R, MLR	A 149B)	2 cm	t Prairie Redox (A16) (LRR K. L. R)
hydrogen Sulfide (A4)      Loamy Gleyed Matrix (F2)      Dark Surface (S7) (LRR K, L)         tratified Layers (A5)      Depleted Matrix (F3)      Dark Surface (S7) (LRR K, L)         bepleted Below Dark Surface (A11) Redox Dark Surface (F6)      Thin Dark Surface (S9) (LRR K, L)         hick Dark Surface (A12)      Depleted Dark Surface (F7)      Thin Dark Surface (S9) (LRR K, L)         andy Mucky Mineral (S1)      Redox Depressions (F8)      Iron-Manganese Masses (F12) (MLRA 1448, 149B)         andy Gleyed Matrix (S6)	3lack Hi	istic (A3)		Loamy Muo	:ky Mi	ineral (F1	) (LRR K, I	_)	5 cm	Mucky Peat or Peat (S3) (LRR K. L. R)
tratified Layers (A5) Depleted Matrix (F3) Polyvalue Below Surface (S8) (LRR K, L) pepleted Below Dark Surface (A11) Redox Dark Surface (F6) Thin Dark Surface (S9) (LRR K, L) hick Dark Surface (A12) Depleted Dark Surface (F7) Iron-Manganese Masses (F12) (LRR K, L, R) andy Mucky Mineral (S1) Redox Depressions (F8) Piedmont Floodplain Soils (F19) (MLRA 149B) iandy Gleyed Matrix (S4) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) mady Redox (S5) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) cators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. rictive Layer (if observed): Type: None Hydric Soil Present? Yes No Depth (inches): Ans.	Hydroge	en Sulfide (A4)		Loamy Gley	/ed M	atrix (F2)			Dark	Surface (S7) <b>(LRR K. L)</b>
bepleted Below Dark Surface (A11) Redox Dark Surface (F6) Thin Dark Surface (S9) (LRR K, L)   hick Dark Surface (A12) Depleted Dark Surface (F7) Iron-Manganese Masses (F12) (LRR K, L, R)   andy Mucky Mineral (S1) Redox Depressions (F8) Piedmont Floodplain Soils (F19) (MLRA 149B)   iandy Redox (S5) Red Parent Material (F21) Very Shallow Dark Surface (TF12)   itripped Matrix (S6) Very Shallow Dark Surface (TF12)   other (Explain in Remarks) Other (Explain in Remarks)   cators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.   rictive Layer (if observed):	Stratifie	d Layers (A5)		_✓ Depleted N	latrix	(F3)			Polyv	value Below Surface (S8) (LRR K, L)
hick Dark Surface (A12) Depleted Dark Surface (F7) Iron-Manganese Masses (F12) (LRR K, L, R) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 1498 Jandy Redox (S5) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) cators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. rictive Layer (if observed): None Hydric Soil Present? Yes No Pers No Arks:	Deplete	d Below Dark Surf	ace (A1	1) Redox Dark	(Surfa	ace (F6)			Thin	Dark Surface (S9) (LRR K. L)
andy Mucky Mineral (S1)Redox Depressions (F8) andy Gleyed Matrix (S4) andy Redox (S5) tripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) cators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. rictive Layer (if observed): Type:None Depth (inches): arks:	「hick Da	ark Surface (A12)		Depleted D	ark Si	urface (F	7)		lron-l	Manganese Masses (F12) (LRR K. L. R)
andy Gleyed Matrix (S4)										
andy Redox (S5)	Sandy №	Aucky Mineral (S1)		Redox Dep	ressio	ons (F8)			Piedr	nont Floodplain Soils (F19) (MLRA 149B)
itripped Matrix (S6)   Dark Surface (S7) (LRR R, MLRA 149B)   cators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.   rictive Layer (if observed):   Type:   None   Depth (inches):   Arks:	Sandy N Sandy G	Aucky Mineral (S1) Gleyed Matrix (S4)		Redox Dep	ressic	ons (F8)			Piedr Mesio	nont Floodplain Soils (F19) <b>(MLRA 149B</b> ) Spodic (TA6) <b>(MLRA 144A, 145, 149B</b> )
Dark Surface (S7) (LRR R, MLRA 149B)   Cother (Explain in Remarks)   cators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.   rictive Layer (if observed):   Type:   None   Depth (inches):   Arks:	Sandy N Sandy G Sandy R	Aucky Mineral (S1) Gleyed Matrix (S4) Redox (S5)		Redox Dep	ressic	ons (F8)			Piedr Mesic	nont Floodplain Soils (F19) (MLRA 149B) c Spodic (TA6) (MLRA 144A, 145, 149B) Parent Material (F21)
cators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.         rictive Layer (if observed):         Type:       None         Depth (inches):         arks:	Sandy N Sandy G Sandy R Stripped	Aucky Mineral (S1) Gleyed Matrix (S4) Redox (S5) d Matrix (S6)		Redox Dep	ressic	ons (F8)			Piedr Mesio Red F Verv	nont Floodplain Soils (F19) <b>(MLRA 149B</b> c Spodic (TA6) <b>(MLRA 144A, 145, 149B)</b> Parent Material (F21) Shallow Dark Surface (TE12)
rictive Layer (if observed): Type: None Hydric Soil Present? Yes _ ✓ No Depth (inches): arks:	Sandy N Sandy G Sandy R Stripped Dark Su	Aucky Mineral (S1) Gleyed Matrix (S4) Redox (S5) d Matrix (S6) ırface (S7) <b>(LRR R, I</b>	ИLRA 1	Redox Dep 49B)	ressic	ons (F8)			Piedr Mesic Red F Very 1 Othe	nont Floodplain Soils (F19) (MLRA 149B) c Spodic (TA6) (MLRA 144A, 145, 149B) Parent Material (F21) Shallow Dark Surface (TF12) r (Explain in Remarks)
Type: None   Depth (inches):    arks:	Sandy N Sandy G Sandy R Stripped Dark Su licators	Aucky Mineral (S1) Gleyed Matrix (S4) Redox (S5) d Matrix (S6) Irface (S7) <b>(LRR R, I</b> of hydrophytic ves	VLRA 1	Redox Dep 49B) h and wetland hy	ressic	ons (F8) gy must l	be preser	ıt, unless disturb	Piedr Mesic Red F Very : Other	nont Floodplain Soils (F19) <b>(MLRA 149B)</b> c Spodic (TA6) <b>(MLRA 144A, 145, 149B)</b> Parent Material (F21) Shallow Dark Surface (TF12) r (Explain in Remarks) ematic.
Depth (inches): arks:	Sandy N Sandy G Sandy R Stripped Dark Su <u>dicators</u> <b>trictive l</b>	Aucky Mineral (S1) Gleyed Matrix (S4) Redox (S5) d Matrix (S6) Irface (S7) <b>(LRR R, I</b> <u>of hydrophytic veş</u> <b>Layer (if observed)</b>	<b>VLRA 1</b> रुetatioा :	Redox Dep <b>49B)</b> n and wetland hy	drolo;	ons (F8) gy must l	be preser	ıt, unless disturb	Piedr Mesic Red F Very : Other red or proble	nont Floodplain Soils (F19) <b>(MLRA 149B)</b> c Spodic (TA6) <b>(MLRA 144A, 145, 149B)</b> Parent Material (F21) Shallow Dark Surface (TF12) r (Explain in Remarks) ematic.
arks:	Sandy N Sandy G Sandy R Stripped Dark Su licators <b>trictive l</b>	Mucky Mineral (S1) Gleyed Matrix (S4) Redox (S5) d Matrix (S6) Irface (S7) <b>(LRR R, I</b> <u>of hydrophytic veş</u> <b>Layer (if observed)</b> Type:	<b>VLRA 1</b> getatioi	Redox Dep <b>49B)</b> None	drolo;	ons (F8) gy must l	be preser	it, unless disturb ioil Present?	Piedr Mesic Red F Very 1 Othe ned or proble	nont Floodplain Soils (F19) (MLRA 149B) c Spodic (TA6) (MLRA 144A, 145, 149B) Parent Material (F21) Shallow Dark Surface (TF12) r (Explain in Remarks) ematic. YesNo
	Sandy N Sandy G Sandy R Stripped Dark Su Dark Su icators <b>rictive I</b>	Aucky Mineral (S1) Gleyed Matrix (S4) Redox (S5) d Matrix (S6) Irface (S7) (LRR R, I of hydrophytic veg Layer (if observed) Type: Depth (inches):	<b>VLRA 1</b> <u>zetation</u> :	Redox Dep <b>49B)</b> n and wetland hy None	drolo;	ons (F8) gy must l	be preser	it, unless disturb ioil Present?	Piedr Mesic Red F Very 1 Othen ned or proble	nont Floodplain Soils (F19) (MLRA 149B) c Spodic (TA6) (MLRA 144A, 145, 149B) Parent Material (F21) Shallow Dark Surface (TF12) r (Explain in Remarks) ematic.
	Sandy N Sandy C Sandy R Stripped Dark Su icators rictive I arks:	Aucky Mineral (S1) Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) (LRR R, I of hydrophytic veg Layer (if observed) Type: Depth (inches):	ylra 1 getation :	Redox Dep <b>49B)</b> n and wetland hy None	drolo;	gy must l	be preser	it, unless disturb ioil Present?	Piedr Mesia Red F Very : Othe red or proble	nont Floodplain Soils (F19) (MLRA 149B) c Spodic (TA6) (MLRA 144A, 145, 149B) Parent Material (F21) Shallow Dark Surface (TF12) r (Explain in Remarks) ematic. Yes _/_ No
	Sandy N Sandy C Sandy R Stripped Dark Su <u>'icators</u> trictive I narks:	Mucky Mineral (S1) Gleyed Matrix (S4) Redox (S5) d Matrix (S6) Irface (S7) <b>(LRR R, I</b> <u>of hydrophytic veg</u> Layer (if observed) Type: Depth (inches):	VLRA 1 3etation :	Redox Dep <b>49B)</b> <u>n and wetland hy</u> <u>None</u>	drolo;	gy must l	be preser Hydric S	it, unless disturb ioil Present?	Piedr Mesia Red F Very t Othe red or proble	nont Floodplain Soils (F19) (MLRA 149B) c Spodic (TA6) (MLRA 144A, 145, 149B) Parent Material (F21) Shallow Dark Surface (TF12) r (Explain in Remarks) ematic. Yes No
	Sandy N Sandy C Sandy R Stripped Dark Su icators rictive I iarks:	Mucky Mineral (S1) Gleyed Matrix (S4) Redox (S5) d Matrix (S6) Irface (S7) <b>(LRR R, I</b> of hydrophytic vea Layer (if observed) Type: Depth (inches):	VLRA 1 getation :	Redox Dep <b>49B)</b> n and wetland hy None	drolo;	gy must l	be preser Hydric S	it, unless disturb ioil Present?	Piedr Mesic Red F Very : Other red or proble	nont Floodplain Soils (F19) (MLRA 149B) c Spodic (TA6) (MLRA 144A, 145, 149B) Parent Material (F21) Shallow Dark Surface (TF12) r (Explain in Remarks) ematic. Yes No
	Gandy N Gandy C Gandy R Stripped Dark Su icators rictive I marks:	Mucky Mineral (S1) Gleyed Matrix (S4) Redox (S5) d Matrix (S6) Irface (S7) <b>(LRR R, I</b> of hydrophytic veg Layer (if observed) Type: Depth (inches):	VLRA 1 getation ::	Redox Dep <b>49B)</b> n and wetland hy None	drolo;	gy must l	be preser Hydric S	it, unless disturb	Piedr Mesic Red F Very : Othe sed or proble	nont Floodplain Soils (F19) (MLRA 149B) c Spodic (TA6) (MLRA 144A, 145, 149B) Parent Material (F21) Shallow Dark Surface (TF12) r (Explain in Remarks) ematic. Yes No
	Sandy N Sandy C Sandy F Stripped Dark Su icators rictive I iarks:	Aucky Mineral (S1) Gleyed Matrix (S4) Redox (S5) d Matrix (S6) Irface (S7) <b>(LRR R, I</b> of hydrophytic vea Layer (if observed) Type: Depth (inches):	VLRA 1 getation ::	Redox Dep <b>49B)</b> n and wetland hy None	drolo,	gy must l	be preser Hydric S	it, unless disturb	Piedr Mesic Red F Very 1 Othe red or proble	nont Floodplain Soils (F19) (MLRA 149B) c Spodic (TA6) (MLRA 144A, 145, 149B) Parent Material (F21) Shallow Dark Surface (TF12) r (Explain in Remarks) ematic. Yes <u>/</u> No
	Sandy N Sandy C Sandy F Stripped Dark Su icators rrictive I	Mucky Mineral (S1) Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) <b>(LRR R, I</b> <u>of hydrophytic veş</u> <b>Layer (if observed)</b> Type: <u>Depth (inches):</u>	VLRA 1 getatio :	Redox Dep 49B) n and wetland hy None	drolo,	gy must l	be preser Hydric S	it, unless disturb	Piedr Mesia Red F Very 1 Othe ned or proble	nont Floodplain Soils (F19) (MLRA 149B c Spodic (TA6) (MLRA 144A, 145, 149B) Parent Material (F21) Shallow Dark Surface (TF12) r (Explain in Remarks) ematic. Yes <u>/ No</u>
	Sandy N Sandy C Sandy F Stripped Dark Su icators trictive I	Mucky Mineral (S1) Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) <b>(LRR R, I</b> <u>of hydrophytic veş</u> <b>Layer (if observed)</b> Type: <u>Depth (inches):</u>	VLRA 1 getatio :	Redox Dep 49B) n and wetland hy None	drolo,	gy must l	be preser	it, unless disturb	Piedr Mesia Red F Very 1 Othe ned or proble	nont Floodplain Soils (F19) (MLRA 149B c Spodic (TA6) (MLRA 144A, 145, 149B) Parent Material (F21) Shallow Dark Surface (TF12) r (Explain in Remarks) ematic. Yes <u>/</u> No
	Sandy N Sandy C Sandy F Stripped Dark Su icators rictive I	Mucky Mineral (S1) Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) <b>(LRR R, I</b> <u>of hydrophytic veş</u> <b>Layer (if observed)</b> Type: <u>Depth (inches):</u>	VLRA 1 getatio :	Redox Dep 49B) n and wetland hy None	drolo,	gy must l	be preser	it, unless disturb	Piedr Mesia Red F Very 1 Othe ned or proble	nont Floodplain Soils (F19) (MLRA 149B c Spodic (TA6) (MLRA 144A, 145, 149B) Parent Material (F21) Shallow Dark Surface (TF12) r (Explain in Remarks) ematic. Yes No
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	Sandy N Sandy C Sandy F Stripped Dark Su licators trictive I	Aucky Mineral (S1) Gleyed Matrix (S4) Redox (S5) d Matrix (S6) Irface (S7) <b>(LRR R, I</b> of hydrophytic veş <b>Layer (if observed)</b> Type: Depth (inches):	VLRA 1 getatio I:	Redox Dep 49B) n and wetland hy None	drolo,	gy must l	be preser	it, unless disturb	Piedr Mesia Red F Very : Othe	nont Floodplain Soils (F19) (MLRA 149B) c Spodic (TA6) (MLRA 144A, 145, 149B) Parent Material (F21) Shallow Dark Surface (TF12) r (Explain in Remarks) ematic. Yes No
	Sandy N Sandy C Sandy F Stripped Dark Su licators trictive I	Aucky Mineral (S1) Gleyed Matrix (S4) Redox (S5) d Matrix (S6) Irface (S7) <b>(LRR R, I</b> of hydrophytic veg Layer (if observed) Type: Depth (inches):	VILRA 1 getation r:	Redox Dep 49B) n and wetland hy None	drolo,	gy must l	be preser	it, unless disturb	Piedr Mesia Red F Very : Othe red or proble	nont Floodplain Soils (F19) (MLRA 149B) c Spodic (TA6) (MLRA 144A, 145, 149B) Parent Material (F21) Shallow Dark Surface (TF12) r (Explain in Remarks) ematic. Yes No
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	Sandy A Sandy C Sandy F Stripper Dark Su Jicators trictive I narks:	Aucky Mineral (S1) Gleyed Matrix (S4) Redox (S5) d Matrix (S6) Irface (S7) <b>(LRR R, I</b> of hydrophytic veg Layer (if observed) Type: Depth (inches):	VILRA 1 getatio I:	Redox Dep 49B) n and wetland hy None	drolo,	gy must l	be preser	it, unless disturb ioil Present?	Piedr Mesia Red F Very : Othe red or proble	nont Floodplain Soils (F19) (MLRA 149B) c Spodic (TA6) (MLRA 144A, 145, 149B) Parent Material (F21) Shallow Dark Surface (TF12) r (Explain in Remarks) ematic. Yes No
	Sandy A Sandy C Sandy F Stripper Dark Su licators trictive I narks:	Aucky Mineral (S1) Gleyed Matrix (S4) Redox (S5) d Matrix (S6) Irface (S7) <b>(LRR R, I</b> of hydrophytic veg Layer (if observed) Type: Depth (inches):	VILRA 1 getatio I:	Redox Dep 49B) n and wetland hy None	drolo	gy must l	be preser	it, unless disturb ioil Present?	Piedr Red F Very : Othe red or proble	nont Floodplain Soils (F19) (MLRA 149B) c Spodic (TA6) (MLRA 144A, 145, 149B) Parent Material (F21) Shallow Dark Surface (TF12) r (Explain in Remarks) ematic. Yes No
	Sandy N Sandy C Sandy F Stripped Dark Su licators trictive I narks:	Aucky Mineral (S1) Gleyed Matrix (S4) Redox (S5) d Matrix (S6) Irface (S7) <b>(LRR R, I</b> of hydrophytic veg Layer (if observed) Type: Depth (inches):	MLRA 1 getatio	Redox Dep 49B) n and wetland hy None	drolo	gy must l	be preser	it, unless disturb	Piedr Mesia Red F Very : Othe red or proble	nont Floodplain Soils (F19) (MLRA 149B c Spodic (TA6) (MLRA 144A, 145, 149B) Parent Material (F21) Shallow Dark Surface (TF12) r (Explain in Remarks) ematic. Yes No
	Sandy N Sandy C Sandy F Strippe Dark Su icators rictive I	Aucky Mineral (S1) Gleyed Matrix (S4) Redox (S5) d Matrix (S6) Irface (S7) <b>(LRR R, I</b> <u>of hydrophytic veş</u> <b>Layer (if observed)</b> Type: Depth (inches):	MLRA 1 getatio	Redox Dep 49B) n and wetland hy None	drolo	gy must l	be preser	it, unless disturb	Piedr Mesia Red F Very : Othe red or proble	nont Floodplain Soils (F19) (MLRA 149B c Spodic (TA6) (MLRA 144A, 145, 149B) Parent Material (F21) Shallow Dark Surface (TF12) r (Explain in Remarks) ematic. Yes No

Vegetation Photos



Soil Photos

Photo of Sample Plot North



Photo of Sample Plot East Photo of Sample Plot South



Photo of Sample Plot West

# WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Riverside So	olar	City/Cou	nty: Chaumont, J	efferson		Sampling Date:	2020-June-02	
Applicant/Owner: Ger	onimo			State: NY		Sampling Point: V	V-NSD-02_UPL-1	
Investigator(s): Nick DeJohn, Other, Ben Popham Section, Township, Range:								
Landform (hillslope, terra	ace, etc.): Fl	at	Local re	lief (concave, convex	, none):	Undulating	Slope (%): 1 to 3	
Subregion (LRR or MLRA)	LRR R		L	at: 44.067203058	Long:	-76.1145677884	Datum: WGS84	
Soil Map Unit Name:	CIAChaumont s	ilty clay, 0 to 3 perce	nt slopes			NWI classific	ation:	
Are climatic/hydrologic conditions on the site typical for this time of year? Yes 🖌 No (If no, explain in Remarks.)								
Are Vegetation, So	oil, or H	lydrology signif	icantly disturbed?	Are "Normal	Circumst	ances" present?	Yes 🟒 No	
Are Vegetation, So	oil,        or H	lydrology natur	ally problematic?	(If needed, ex	plain an	y answers in Rema	arks.)	

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

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

#### HYDROLOGY

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

VEGETATION -- Use scientific names of plants.

Sampling Point: W-NSD-02\_UPL-1

Absolute % Cover	Dominant	Indicator	Dominance Test works	heet:		
	species:	Status	Are OBL. FACW. or FAC	species mac	0	(A)
			Total Number of Domi	nant Species		
			Across All Strata:		3	(B)
			Percent of Dominant S	pecies That	0	(4 (D)
			Are OBL, FACW, or FAC	:		(A/B)
	·		Prevalence Index work	sheet:		
	·		- <u>Total % Cover</u>	of:	<u>Multiply</u>	By:
	- Total Cou		- OBL species	0	x 1 =	0
0	- 10tai Cov		FACW species	0	x 2 =	0
20	Vac	FACU	FAC species	7	x 3 =	21
		FACU	FACU species	80	x 4 =	320
/	NO	FAC	UPL species	0	x 5 =	0
	·		Column Totals	87	(A)	341 (B)
			Prevalence li	ndex = B/A =	3.9	
			Hydrophytic Vegetatio	n Indicators:		
			1- Rapid Test for	Hydrophytic \	/egetatior	า
	<u> </u>		2 - Dominance Te	st is > 50%	U	
37	= Total Cov	ver	3 - Prevalence Inc	dex is $\leq 3.0^1$		
			4 - Morphologica	Adaptations	<sup>1</sup> (Provide	supporting
25	Yes	FACU	- data in Remarks or on	a separate sh	neet)	
25	Yes	FACU	Problematic Hydi	rophytic Vege	tation <sup>1</sup> (E	xplain)
			<sup>1</sup> Indicators of hydric so	oil and wetlan	d hydrolo	gy must be
			present, unless disturb	bed or proble	matic	
			Definitions of Vegetati	on Strata:		
			Tree – Woody plants 3	in. (7.6 cm) o	r more in	diameter at
			breast height (DBH), re	gardless of h	eight.	
			Sapling/shrub - Woody	y plants less t	han 3 in. I	DBH and
			greater than or equal t	:o 3.28 ft (1 m	ı) tall.	
			Herb – All herbaceous	(non-woody)	plants, re	gardless of
			size, and woody plants	less than 3.2	8 ft tall.	20.6
			woody vines – All woo	dy vines grea	ter than 3	.28 ft in
50	= Total Cov	ver	neight.			
			Hydrophytic Vegetatio	on Present?	Yes N	No 🔽
			=			
	TILC		=			
	Absolute % Cover 	Absolute Dominant % Cover Species? 0 = Total Cov 30 Yes 7 No 30 Yes 7 No 31 Total Cov 32 Yes 37 = Total Cov 25 Yes 25 Yes 37 = Total Cov 25 Yes 37 = Total Cov	Absolute Dominant       Indicator $\%$ Cover       Species?       Status $\bigcirc$ <	Absolute Dominant Indicator % Cover Species?       Dominance Test works Number of Dominant 1 Are OBL, FACW, or FAC Total Number of Domi Across All Strata:	Absolute Dominant       Indicator       Dominance lest worksheet:         % Cover       Species?       Status         Mumber of Dominant Species       Are OBL, FACW, or FAC:         Total Number of Dominant Species       Across All Strata:         Percent of Dominant Species       0         30       Yes         FACU       FACU         7       No         FAC       Species         7       No         FACU       FACU species         7       No         FACU       FACU species         7       No         Satistication       Batter Strata         9       Prevalence Index = B/A =         Hydrophytic Vegetation Indicators:       1- Rapid Test for Hydrophytic Vegetation Indicators:         1- Rapid Test for Hydrophytic Vegetation Indicators:       3.0'         25       Yes       FACU         25       Yes       FACU         9       Problematic Hydrophytic Vegetation Strata:         10       Sapling/Shrub - Woody plants less than 3.2 </td <td>Absolute Dominant Indicator       Dominance lest worksheet:       0         % Cover Species?       Status       Number of Dominant Species That       0         Across All Strata:       Percent of Dominant Species That       0         Are OBL, FACW, or FAC:       0         Are OBL, FACW, or FAC:       0         Percent of Dominant Species That       0         Are OBL, FACW, or FAC:       0         Prevalence Index worksheet:       0         0       = Total Cover         30       Yes         FACU       FACU         FAC species       0       x1 =         FAC species       0       x5 =         Column Totals       87       (A)         Prevalence Index = B/A =       .3.9         Hydrophytic Vegetation Indicators:      </td>	Absolute Dominant Indicator       Dominance lest worksheet:       0         % Cover Species?       Status       Number of Dominant Species That       0         Across All Strata:       Percent of Dominant Species That       0         Are OBL, FACW, or FAC:       0         Are OBL, FACW, or FAC:       0         Percent of Dominant Species That       0         Are OBL, FACW, or FAC:       0         Prevalence Index worksheet:       0         0       = Total Cover         30       Yes         FACU       FACU         FAC species       0       x1 =         FAC species       0       x5 =         Column Totals       87       (A)         Prevalence Index = B/A =       .3.9         Hydrophytic Vegetation Indicators:

SOIL

Sampling Point: W-NSD-02\_UPL-1

nunes)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup> Tex	ture	Remarks
0 - 20	10YR 4/2	100				Silty Cla	ay Loam	
		·		_				
/pe: C = C	oncentration, D = [	Pepletio	n, RM = Reduced	Matr	ix, MS = N	Masked Sand Grains. <sup>2</sup> L	ocation: PL = Pore Linin	g, M = Matrix.
dric Soil I	ndicators:						Indicators for Probler	natic Hydric Soils <sup>3</sup> :
_ Histic Ep _ Black Hii _ Hydroge _ Stratified _ Depleted _ Thick Da _ Sandy N _ Sandy R _ Sandy R _ Strippec _ Dark Su	vipedon (A2) stic (A3) en Sulfide (A4) d Layers (A5) d Below Dark Surfa irk Surface (A12) lucky Mineral (S1) leyed Matrix (S4) edox (S5) l Matrix (S6) rface (S7) (LRR R, M	ce (A11) LRA 149	Loamy Mucky Loamy Gleyed Depleted Mat Redox Dark S Depleted Dar Redox Depre	Mine Mine Mat rix (F urfac k Sur ssion	(59) (LRR eral (F1) ( rix (F2) 3) e (F6) face (F7) s (F8)	К, MLKA 1496) [LRR K, L]	Coast Prairie Redd 5 cm Mucky Peat Dark Surface (S7) Polyvalue Below S Thin Dark Surface Iron-Manganese M Piedmont Floodpl Mesic Spodic (TA6 Red Parent Mater Very Shallow Dark Other (Explain in	ox (A16) (LRR K, L, R) or Peat (S3) (LRR K, L, R) (LRR K, L) (JRR K, L) (S9) (LRR K, L) Masses (F12) (LRR K, L, R) ain Soils (F19) (MLRA 149B) ) (MLRA 144A, 145, 149B) ial (F21) c Surface (TF12) Remarks)
dicators	of hydrophytic vege	etation a	nd wetland hydr	ology	must be	e present, unless disturbe	ed or problematic.	
strictive L	ayer (if observed):		-				·	
	Type: Depth (inches):		None			Hydric Soil Present?	Yes_	No
marks:								

Vegetation Photos



Soil Photos

Photo of Sample Plot North



Photo of Sample Plot East

Photo of Sample Plot South



Photo of Sample Plot West

# WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Riverside Solar		City/County: Chaumont, Je	efferson		Sampling Date:	2020-June-02		
Applicant/Owner: Geronir	no		State: NY		Sampling Point: W	-NSD-03_PFO-1		
Investigator(s): Nick DeJohn, Other, Ben Popham Section, Township, Range:								
Landform (hillslope, terrace,	etc.): Depression	Local rel	ief (concave, convex,	none):	Concave	Slope (%): 0 to 1		
Subregion (LRR or MLRA):	LRR R	Lä	at: 44.0665343916	Long:	-76.1127956864	Datum: WGS84		
Soil Map Unit Name:	ivingston mucky silty cla	ау			NWI classifica	tion:		
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 C	ircumsta	ances" present?	Yes 🟒 No		
Are Vegetation, Soil	, or Hydrology	naturally problematic?	(If needed, exp	olain any	/ answers in Remar	rks.)		

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

Hydrophytic Vegetation Present?	Yes 🟒 No								
Hydric Soil Present?	Yes 🟒 No	Is the Sampled Area within a Wetland?	Yes 🯒 No						
Wetland Hydrology Present?	Yes 🟒 No	If yes, optional Wetland Site ID:	W-NSD-03						
Remarks: (Explain alternative procedures here or in a separate report)									
Covertype is PFO.									

#### HYDROLOGY

Wetland Hydrology Indicators:				
Primary Indicators (minimum of or	ne is required; check all t	that apply)		Secondary Indicators (minimum of two required)
<ul> <li> Surface Water (A1)</li> <li> High Water Table (A2)</li> <li> Saturation (A3)</li> <li> Water Marks (B1)</li> <li> Sediment Deposits (B2)</li> </ul>	Water- Aquati Marl D Hydrog Oxidize	Stained Leaves (B9) c Fauna (B13) leposits (B15) gen Sulfide Odor (C1) ed Rhizospheres on Livin	g Roots (C3)	<ul> <li>Surface Soil Cracks (B6)</li> <li>Drainage Patterns (B10)</li> <li>Moss Trim Lines (B16)</li> <li>Dry-Season Water Table (C2)</li> <li>Crayfish Burrows (C8)</li> <li>Saturation Visible on Aerial Imagery (C9)</li> </ul>
<ul> <li>Drift Deposits (B3)</li> <li>Algal Mat or Crust (B4)</li> <li>Iron Deposits (B5)</li> <li>Inundation Visible on Aerial Im</li> <li>Sparsely Vegetated Concave Summer Summ</li></ul>	Presen Recent Thin M agery (B7) Other ( urface (B8)	nce of Reduced Iron (C4) t Iron Reduction in Tilled Iuck Surface (C7) (Explain in Remarks)	Soils (C6)	<ul> <li> Stunted or Stressed Plants (D1)</li> <li> Geomorphic Position (D2)</li> <li> Shallow Aquitard (D3)</li> <li> Microtopographic Relief (D4)</li> <li> FAC-Neutral Test (D5)</li> </ul>
Field Observations:				
Surface Water Present?	Yes No 🟒	Depth (inches):		
Water Table Present?	Yes No 🟒	Depth (inches):		Wetland Hydrology Present? Yes No
Saturation Present?	Yes 🟒 No	Depth (inches):	0	_
(includes capillary fringe)				
Describe Recorded Data (stream g	auge, monitoring well, a	erial photos, previous in	spections), if	available:

VEGETATION -- Use scientific names of plants.

Sampling Point: W-NSD-03\_PFO-1

Tree Stratum (Plot size: <u>30 ft</u> )	Absolute	Dominant	Indicator	Dominance Test works	heet:		
1. Ourseens kinstern	% Cover	species?	Status		species mat	3	(A)
1. Quercus bicolor		Yes	FACW	Total Number of Domi	nant Species		
2. Carya ovata	10	NO	FACU	Across All Strata:	in an openeo	3	(B)
3.				Percent of Dominant S	pecies That	100	(1 (5)
4.				Are OBL, FACW, or FAC		100	(A/B)
5.				Prevalence Index work	sheet:		
b				- <u>Total % Cover</u>	of:	<u>Multiply</u>	<u>By:</u>
7				- OBL species	10	x 1 =	10
	80	= lotal Cov	er	FACW species	145	x 2 =	290
Sapling/Shrub Stratum (Plot size: <u>15 ft</u> )				FAC species	15	x 3 =	45
1. Cornus racemosa		Yes	FAC	FACU species	18	x 4 =	72
2. Lonicera morrowii	3	No	FACU	- UPL species	0	x 5 =	0
3				Column Totals	188	(A)	417 (B)
4				Prevalence li	ndex = B/A =	2.2	
5				Hydrophytic Vegetation	n Indicators:		
6				1- Rapid Test for I	Hydrophytic V	/egetation	ı
7				- 2 - Dominance Te	st is >50%		•
	18	= Total Cov	er	✓ 3 - Prevalence Inc	dex is $< 3.0^1$		
<u>Herb Stratum</u> (Plot size: <u>5 ft</u> )				4 - Morphological	Adaptations <sup>1</sup>	<sup>1</sup> (Provide	supporting
1. <i>Carex bromoides</i>	60	Yes	FACW	- data in Remarks or on	a separate sh	neet)	Supporting
2. Anemone canadensis	15	No	FACW	Problematic Hydr	rophytic Vege	tation <sup>1</sup> (E)	(plain)
3. <i>Carex crinita</i>	10	No	OBL	Indicators of hydric soil and wetland hydrology must be			
4. Parthenocissus quinquefolia	5	No	FACU	present, unless disturb	bed or probler	matic	
5				Definitions of Vegetation	on Strata:		
6				Tree – Woody plants 3	in. (7.6 cm) or	r more in	diameter at
7				breast height (DBH), re	gardless of h	eight.	
8				Sapling/shrub - Woody	y plants less tl	han 3 in. I	OBH and
9.				greater than or equal t	:o 3.28 ft (1 m	) tall.	
10.				Herb – All herbaceous (non-woody) plants, regardl			gardless of
11.				size, and woody plants	less than 3.2	8 ft tall.	
12.				Woody vines – All woo	dy vines great	ter than 3	.28 ft in
	90	= Total Cov	er	height.			
Woody Vine Stratum (Plot size: <u>30 ft</u> )		•		Hydrophytic Vegetatic	on Present?	Yes 🟒 N	No
1.							
2.				-			
3.				-			
4.				-			
	0	= Total Cov	er	-			
Remarks: (Include photo numbers here or on a se	parate sheet.)						

SOIL

### Sampling Point: W-NSD-03\_PFO-1

(inches)	Matrix	to the c	lepth needed to ( Redox	Geati	hent the i ures	ndicator or confirm the	absence of indicators.)	
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup> Te	cture	Remarks
0-6	10YR 3/1	98	10YR 3/6	2	<u> </u>	M Silty C	av Loam	
6 - 20	5YR 5/1	90	7.5YR 4/6	10	С	M Clay	Loam	
				· <u>· · ·</u>				
·				·				
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				·				
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				·				
·				· —				
$\overline{\Gamma_{1}}$	oncontration D - I	 Doploti	on PM - Poduco	d Mat	iv MC -	Macked Sand Grains	l ocation: PL - Poro Lini	ng M - Matrix
ype. $C = C$	ndicators:	Dehieti	ייי, גוע – גפטעכפ	u ivið(l	ix, ivis =	iviaskeu Sahu Grains.	Indicators for Broble	matic Hydric Saile3
yuric Soll li			Debaselese D		unforce (C		indicators for Proble	ematic Hydric Solis <sup>a</sup> :
HISTOSOI	(AT)		Polyvalue Be	elow S	urtace (S	δ) (LKK K, MLKA 149B)	2 cm Muck (A10)	(LRR K, L, MLRA 149B)
Black His	stic (A3)			w Min	eral (F1)	(I RR K. I )	Coast Prairie Rec	dox (A16) <b>(LRR K, L, R)</b>
Hvdroge	n Sulfide (A4)		Loamy Glev	ed Ma	trix (F2)		5 cm Mucky Peat	t or Peat (S3) <b>(LRR K, L, R)</b>
Stratified	d Layers (A5)		Depleted M	atrix (I	=3)		Dark Surface (S7	) (LRR K, L)
Depleted	d Below Dark Surfa	ace (A1	1) Redox Dark	Surfa	ce (F6)		Polyvalue Below	SUITACE (S8) (LRR K, L)
Thick Da	rk Surface (A12)		Depleted Da	ırk Su	rface (F7)		Inin Dark Suriac	e (S9) (LKK K, L) Massas (E12) (LDD K L D)
Sandy M	lucky Mineral (S1)		Redox Depr	essior	ns (F8)			Nasses (FIZ) (LKK K, L, K)
Sandy G	leyed Matrix (S4)						Mesic Spodic (TA	6) (MI RA 144A 145 149B)
Sandy Re	edox (S5)						Red Parent Mate	erial (F21)
_ Stripped	l Matrix (S6)						Very Shallow Dar	rk Surface (TF12)
_ Dark Sur	rface (S7) <b>(LRR R, N</b>	ILRA 14	19B)				Other (Explain in	Remarks)
ndicators o	of hydrophytic veg	etation	and wetland hyd	rolog	y must be	e present, unless distur	bed or problematic.	
estrictive L	ayer (if observed):		-		-			
	Type:		None			Hydric Soil Present?	Yes_	_∕_ No
	51							
	Depth (inches):							
emarks:	Depth (inches):							
emarks:	Depth (inches):							
emarks:	Depth (inches):							
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emarks:	Depth (inches):							
emarks:	Depth (inches):							



Soil Photos



Photo of Sample Plot North Photo of Sample Plot East



Photo of Sample Plot South Photo of Sample Plot West



# WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Riverside	Solar		City/County: C	haumont, Je	fferson			Sampling Date:	2020-June-02
Applicant/Owner: G	eronimo				Sta	te: NY		Sampling Point:	W-NSD-03_PSS-2
Investigator(s): Nick	DeJohn, Other	, Ben Popham		Se	ection, To	wnship, Ra	ange:		
Landform (hillslope, ter	rrace, etc.):	Depression		Local reli	ief (conca	ve, convex	, none):	Concave	Slope (%): 0 to 1
Subregion (LRR or MLR	A): LRR R	1		La	nt: 44.065	5169124	Long:	-76.1134954077	Datum: WGS84
Soil Map Unit Name:	LcLivingstor	n mucky silty cla	у					NWI classific	ation:
Are climatic/hydrologic	conditions on	the site typical	for this time of	year?	Yes _	🖌 No	(If no	o, explain in Rema	rks.)
Are Vegetation,	Soil,	or Hydrology	significantly	disturbed?	Are	"Normal	Circums	tances" present?	Yes 🟒 No
Are Vegetation,	Soil, o	or Hydrology	naturally pro	oblematic?	(If r	needed, ex	plain an	y answers in Rem	arks.)

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

Hydrophytic Vegetation Present? Hydric Soil Present?	Yes 🧹 No Yes 🖌 No	Is the Sampled Area within a Wetland?	Yes 🖌 No
Wetland Hydrology Present?	Yes No	If yes, optional Wetland Site ID:	W-NSD-03
Remarks: (Explain alternative procedure	es here or in a separate rep	port)	
Covertype is PSS.			

#### HYDROLOGY

Wetland Hydrology Indicators:						
Primary Indicators (minimum of o	ne is required; check all	Secondary Indicators (minimum of two required)				
Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2)	Water Aquat Marl I Hydro Oxidiz	-Stained Leaves (B9) cic Fauna (B13) Deposits (B15) ogen Sulfide Odor (C1) zed Rhizospheres on Living	g Roots (C3)	<ul> <li>Surface Soil Cracks (B6)</li> <li>Drainage Patterns (B10)</li> <li>Moss Trim Lines (B16)</li> <li>Dry-Season Water Table (C2)</li> <li>Crayfish Burrows (C8)</li> <li>Saturation Vicible on Acrial Imageny (C0)</li> </ul>		
<ul> <li>Drift Deposits (B3)</li> <li>Algal Mat or Crust (B4)</li> <li>Iron Deposits (B5)</li> <li>Inundation Visible on Aerial Im</li> <li>Sparsely Vegetated Concave Summer Summ</li></ul>	Prese Recen Thin N agery (B7) Other urface (B8)	nce of Reduced Iron (C4) at Iron Reduction in Tilled 5 Muck Surface (C7) (Explain in Remarks)	Soils (C6)	<ul> <li> Stunted or Stressed Plants (D1)</li> <li> Geomorphic Position (D2)</li> <li> Shallow Aquitard (D3)</li> <li> Microtopographic Relief (D4)</li> <li> FAC-Neutral Test (D5)</li> </ul>		
Field Observations:						
Surface Water Present?	Yes No 🟒	Depth (inches):				
Water Table Present?	Yes 🟒 No	Depth (inches):	6	Wetland Hydrology Present?   Yes No		
Saturation Present?	Yes 🟒 No	Depth (inches):	0			
(includes capillary fringe)						
Describe Recorded Data (stream g	auge, monitoring well, a	aerial photos, previous ins	pections), if	available:		

VEGETATION -- Use scientific names of plants.

Sampling Point: W-NSD-03\_PSS-2

Tree Stratum (Plot size: <u>30 ft</u> )	Absolute	Dominant	Indicator	Dominance Test worksh	eet:		
1. Frankrige a same de anisa	10	Species:		Are OBL FACW or FAC:	pecies mat	4	(A)
	10	res	FACW	Total Number of Dominant Spec		s	
2.				Across All Strata:		4	(B)
				Percent of Dominant Sp	ecies That	100	(A/R)
۲ ۲				Are OBL, FACW, or FAC:			(A/D)
6		·		Prevalence Index works	heet:		
7.				Total % Cover of	<u>of:</u>	Multiply	<u>By:</u>
···	10	= Total Cov	er	OBL species	10	x 1 =	10
Sanling/Shrub Stratum (Plot size: 15 ft )		-		FACW species	150	x 2 =	300
1. Spiraea alba	70	Yes	FACW	FAC species	0	x 3 =	0
2 Ouercus bicolor	10	No	FACW	FACU species	0	x 4 =	0
3	10	110	17.00	UPL species	0	x 5 =	0
				Column Totals	160	(A)	310 (B)
т. Б				Prevalence In	dex = B/A =	1.9	
о				Hydrophytic Vegetation	Indicators:		
7				1- Rapid Test for H	ydrophytic V	egetation	
/·	80	- Total Cov	or	2 - Dominance Tes	t is >50%		
Harb Stratum (Blat size: Eft.)	00	- 10tai COV	ei	3 - Prevalence Inde	ex is $\leq 3.0^1$		
<u>nerb stratum</u> (Flot size. <u>_5 it</u> )	40	Voc		4 - Morphological /	Adaptations <sup>1</sup>	(Provide	supporting
Spiraca alba     Bhalaris arundinacea	20	Voc	FACW	data in Remarks or on a	separate sh	ieet)	
2. Colium acorollum	10	No		<ul> <li>Problematic Hydrophytic Vegetation<sup>1</sup> (Explain)</li> </ul>			
	10	NU	UBL	<sup>1</sup> Indicators of hydric soi	l and wetlan	d hydrolog	gy must be
4. 				present, unless disturbe	ed or probler	matic	
с				Definitions of Vegetatio	n Strata:		
0				Iree – Woody plants 3 in	n. (7.6 cm) or	more in a	liameter at
/				Sanling/shrub Woody	plants loss th	eigi it. han 2 in 1	
8				greater than or equal to	) 3 28 ft (1 m	) tall	
9				Herb – All herbaceous (	non-woody)	nlants reg	ardless of
		<u> </u>		size, and woody plants l	less than 3.2	8 ft tall.	
12		<u> </u>		Woody vines – All wood	y vines great	er than 3.	28 ft in
12		Tatal Car		height.	, 0		
	70	= lotal Cov	er	Hydrophytic Vegetation	Present?	(es 🖌 N	0
$\frac{\text{Woody Vine Stratum}}{4}$ (Plot size: <u>30 ft</u> )							
2							
3							
4							
	0	= lotal Cov	er				
Remarks: (Include photo numbers here or on a separate	e sheet.)						

SOIL

Depui	Matrix		Pedeo	/ Eost		nuicator or co	onfirm the al	osence of indicato	JIS.)
(inches)	Color (moist)	06	Color (moist)	06		1002	Toyt	Iro	Bemarks
		<u> </u>		<u> </u>	<u>Type</u>		Ciltar Clas		Remarks
	2.51 4/1	95	7.51R 4/4	<u> </u>					
7 - 20	5YR 5/1	85	10YR 5/8	15	<u> </u>	N	Clay L	oam	
<u> </u>				·					
				·					
<u> </u>				·	·				
				·					
				·					
				·					
				·					
				·					
				·					
<sup>1</sup> Type: C = C	Concentration, D =	Depleti	on, RM = Reduce	d Mat	rix, MS =	Masked Sand	Grains. <sup>2</sup> Lo	ocation: PL = Pore	e Lining, M = Matrix.
Hydric Soil I	Indicators:							Indicators for P	roblematic Hydric Soils <sup>3</sup> :
Histosol	(A1)		Polyvalue Be	elow S	urface (S	8) <b>(LRR R, ML</b>	RA 149B)	2 cm Muck (	A10) <b>(LRR K, L, MLRA 149B)</b>
Histic Ep	oipedon (A2)		Thin Dark Su	urface	(S9) (LRR	R, MLRA 149	B)	Coast Prairie	e Redox (A16) <b>(LRR K, L, R)</b>
Black Hi	Stic (A3)		Loamy Muci	ky Mir ad Ma	eral (F1) triv (E2)	(LRR K, L)		5 cm Mucky	Peat or Peat (S3) <b>(LRR K, L, R)</b>
Tyuruge	d Lavers (A5)		Loaniy Gley	eu Ma atrix (l	UIX (FZ) =3)			Dark Surfac	e (S7) <b>(LRR K, L)</b>
Deplete	d Below Dark Surfa	ace (A1	1) Redox Dark	Surfa	5) ce (F6)			Polyvalue Be	elow Surface (S8) <b>(LRR K, L)</b>
Thick Da	ark Surface (A12)		Depleted Da	ark Su	rface (F7)			Thin Dark Si	urface (S9) <b>(LRR K, L)</b>
Sandy M	1ucky Mineral (S1)		Redox Depr	essior	ns (F8)			Iron-Manga	nese Masses (F12) <b>(LRR K, L, R)</b>
Sandy G	ileyed Matrix (S4)							Piedmont Fl	oodplain Soils (F19) <b>(MLRA 149B)</b>
Sandy R	edox (S5)							Mesic Spoal	C (TA6) (MLRA 144A, 145, 149B)
Stripped	d Matrix (S6)								Material (F2T)
Dark Su	rface (S7) <b>(LRR R, N</b>	ILRA 14	19B)					Other (Expla	ain in Remarks)
a							10 × 1		in in Keniarksy
<sup>3</sup> Indicators	of hydrophytic veg	etation	and wetland hyc	Irolog	y must be	e present, uni	ess disturbe	d or problematic.	
Resultance L	Type.		None			Hydric Soil B	recent?		Ves / No
	Type. Donth (inchos):		None	•		riyuric son r	resent:		
	Depth (inches).								<u>.</u>
Remarks:									
## Hydrology Photos



Vegetation Photos

#### Soil Photos



Photo of Sample Plot North

Photo of Sample Plot East



Photo of Sample Plot South Photo of Sample Plot West



# WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Riverside Solar	City/County: Chaumont, Jefferson	Sampling Date: 2020-June-02
Applicant/Owner: Geronimo	State: NY	Sampling Point: W-NSD-03_UPL-1
Investigator(s): Nick DeJohn, Other, Ben Popham	Section, Township, Range:	
Landform (hillslope, terrace, etc.): Flat	Local relief (concave, convex, none):	Undulating Slope (%): 0 to 1
Subregion (LRR or MLRA): LRR R	Lat: 44.0663724533 Long:	-76.1127493345 Datum: WGS84
Soil Map Unit Name: LcLivingston mucky silty cl	ау	NWI classification:
Are climatic/hydrologic conditions on the site typica	for this time of year? Yes 🖌 No (If no	o, explain in Remarks.)
Are Vegetation, Soil, or Hydrology	significantly disturbed? Are "Normal Circums	tances" present? Yes 🟒 No
Are Vegetation, Soil, or Hydrology _	naturally problematic? (If needed, explain ar	iy answers in Remarks.)

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

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

#### HYDROLOGY

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

VEGETATION -- Use scientific names of plants.

Sampling Point: W-NSD-03\_UPL-1

Tree Stratum (Plot size:30 ft)	Absolute	Dominant	Indicator	Dominance Test works	heet:		
	% Cover	Species?	Status	Are OBL_EACW_or EAC	pecies That	2	(A)
1. Carya ovata	40	Yes	FACU	Total Number of Domin	nant Species		
2. Quercus bicolor	20	Yes	FACW	Across All Strata:		6	(B)
3.		<u> </u>		Percent of Dominant Species That			(4 (D)
4		<u> </u>		Are OBL, FACW, or FAC		33.3	(A/B)
S	·			Prevalence Index works	sheet:		
o				Total % Cover	<u>of:</u>	Multiply	<u>By:</u>
/		- Tatal Cau		OBL species	0	x 1 =	0
Capling/Chrub Stratum (Diat cize) 15 ft )	60	- 10tal COV	er	FACW species	20	x 2 =	40
<u>Sapling/Shrub Stratum</u> (Piot Size: <u>15 it</u> )	20	Vac	FAC	FAC species	30	x 3 =	90
		Vee	FAC	FACU species	65	x 4 =	260
2. Loncera morrown	10	res	FACU	UPL species	50	x 5 =	250
3.		<u> </u>		Column Totals	165	(A)	640 (B)
4.				Prevalence Ir	ndex = B/A =	3.9	
5				Hydrophytic Vegetation	Indicators:		
6.				1- Rapid Test for H	lydrophytic V	egetation	
/				2 - Dominance Te	st is > 50%	•	
	40	= Total Cov	er	3 - Prevalence Ind	ex is $\leq 3.0^1$		
Herb Stratum (Plot size: <u>5 ft</u> )				4 - Morphological	Adaptations <sup>1</sup>	(Provide	supporting
1. Fragaria vesca	50	Yes	UPL	data in Remarks or on	a separate sh	leet)	
2. <u>Ribes oxyacanthoides</u>	15	Yes	FACU	Problematic Hydr	ophytic Vege	tation¹ (Ex	plain)
3				<sup>1</sup> Indicators of hydric so	il and wetlan	d hydrolog	gy must be
4				present, unless disturb	ed or probler	matic	
5				Definitions of Vegetation	on Strata:		
6				Tree – Woody plants 3 i	n. (7.6 cm) or	more in c	liameter at
7				breast height (DBH), re	gardless of h	eight.	
8				Sapling/shrub – Woody	plants less t	han 3 in. D	BH and
9				greater than or equal to	o 3.28 ft (1 m	) tall.	
10				Herb – All nerbaceous (	non-woody)	plants, reg o ft tall	ardless of
11				Woody vines All wood	less than 3.2	or than 3	28 ft in
12				height.	iy vines great	er than 5.	201111
	65	= Total Cov	er	Ludrophytic Vogotatio	n Drocont2 \	/ac N	o (
Woody Vine Stratum (Plot size: <u>30 ft</u> )					in Present?	res N	0_7
1							
2							
3							
4							
	0	= Total Cov	er				
Remarks: (Include photo numbers here or on a separate	e sheet.)						

SOIL

## Sampling Point: W-NSD-03\_UPL-1

017 10YR 4/2 100	icnes)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup> Te	exture	Remarks
se: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains.       *Location: PL = Pore Lining, M = Matrix.         Indicators:       Indicators for Problematic Hydric Soils?         Histosol (A1)       Polyvalue Below Surface (S8) (LRR, MLRA 1496)	- 17	10YR 4/2	100				Silty C	lay Loam	
we: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains.       *Location: PL = Pore Lining, M = Matrix.         iric Soil Indicators:       indicators for Problematic Hydric Soils?         Histos Gold (A1)      Polyvalue Below Surface (Sb) (LRR K, MLRA 1498)         Black Histic (A3)									
e: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains.       *Location: PL = Pore Lining, M = Matrix.         ic Soll Indicators:       Indicators:       Indicators:         istisc Epipedon (A2)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       2 cm Muck (A10) (LRR K, L, MLRA 149B)         lack Histi (A3)       Loamy Mucky Minerai (F1) (LRR K, L)       5 cm Mucky Pato Paet (S3) (LRR K, L)         ydrogen Suffice (A1)       Depleted Matrix (F2)       Dark Surface (S7) (LRR K, L)         yepleted Below Dark Surface (A11)       Redox Dark Surface (F6)       Thin Dark Surface (S9) (LRR K, L)         hick Nark Surface (A12)       Depleted Dark Surface (F7)       — Polysolue Below Surface (S9) (LRR K, L)         andy Mucky Minerai (S1)									
e: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains.       *Location: PL = Pore Lining, M = Matrix.         it Scoll Indicators:       Indicators for Problematic Hydric Soils?         itstosol (A1)									
e: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains.       ?Location: PL = Pore Lining, M = Matrix.         its Cool Indicators:       Indicators for Problematic Hydric Soils?         its Cool Indicators:       Indicators for Problematic Hydric Soils (IRR K, L)         its Cool Indicators:       Indicators for Problematic Hydric Soil (IRR K, L)         its Cool Indicators:       Indicators for Problematic Hydric Soil (IRR K, L)         its Cool Int Instruct (So)       Instruct (F)         its Cool Int Instruct (So)       Instruct (F)									
e: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. <sup>2</sup> Location: PL = Pore Lining, M = Matrix. Indicators: Indicators: Indicators for Problematic Hydric Soils?: Idstosol (A1) Polyvalue Below Surface (S9) (LRR R, MLRA 149B) Jack Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) Jakek Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) Jepleted Below Dark Surface (S3) (LRR K, I, MLRA 149B) Jepleted Below Dark Surface (A11) Redox Dark Surface (F6) Inhic Dark Surface (A12) Depleted Dark Surface (F7) Jandy Mucky Mineral (S1) Depleted Dark Surface (F7) Jandy Gleyed Matrix (S4) Jandy Gleyed Matrix (S4) Cators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Trictive Layer (if observed): 									
e:C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. <sup>2</sup> Location: PL = Pore Lining, M = Matrix. indicators: Indicators: Indicators for Problematic Hydric Soils: itstosol (A1) Polyvalue Below Surface (S8) (LRR R, MLRA 1498) Coast Prairie Redox (A10) (LRR K, L) Jack Histic (A3) Loamy Mucky (Mineral (F1) (LRR K, L) Jydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Depleted Dark Surface (F6) Thick Dark Surface (A11) Redox Depressions (F8) Tion Dark Surface (S9) (LRR K, L) Depleted Dark Surface (F7) Tion Dark Surface (S9) (LRR K, L) Depleted Matrix (S4) Depleted Dark Surface (F7) Tion Dark Surface (S9) (LRR K, L) Trin Dark Surface (S1) Redox Depressions (F8) Very Shallow Dark Surface (F12) (LRR K, L] Simpped Matrix (S6) Very Shallow Dark Surface (T72) Very Shallow Dark Surface (T12) Other (Explain in Remarks) icators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Trictive Layer (if Observed):									
<pre>Histosol (A1) Polyvalue Below Surface (S8) (LRR R, MLRA 149B) Histic Epipedon (A2) Thin Dark Surface (S9) (LRR R, MLRA 149B) Histic Epipedon (A2) Thin Dark Surface (S9) (LRR R, LI hydrogen Sulfde (A4) Loamy Mucky Mineral (F1) (LRR K, L) Sort Mucky Peat or Peat (S3) (LRR K, L) Depleted Matrix (F3) Depleted Matrix (F3) Depleted Below Dark Surface (A11) Redox Dark Surface (F7) Hink Dark Surface (A12) Depleted Matrix (F3) Depleted Matrix (S4) Thin Dark Surface (F7) Hindy Mucky Mineral (S1) Redox Depressions (F8) Piedemont Floodplain Soils (F19) (MLRA 144A, 145, 14 Bandy Gleyed Matrix (S5) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) Licators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. rictive Layer (if observed):  Type: None  Depth (inches):</pre>	e: C = C ric Soil	Concentration, D = I Indicators:	Depletio	n, RM = Reduced	Matr	rix, MS =	Masked Sand Grains.	<sup>2</sup> Location: PL = Pore Lining Indicators for Problem	, M = Matrix. atic Hydric Soils³:
Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) Coast maine Recook (n10) (LRR K, L) Coast maine Recook (n10) (LRR K, L) Statified Layers (A4) Loamy Gleyed Matrix (F2) Depleted Matrix (F3) Polyvalue Below Surface (S9) (LRR K, L) Polyvalue Below Surface (S9) (LRR K, L) Ton-Manganese Masses (F12) (LRR K, L) Tin-Manganese Masses (F12) (LRR K, L) Ton-Manganese Masses (F12) (LRR K, L) Ton-Manganese Masses (F12) (LRR K, L)	listosol listic Ep	l (A1) pipedon (A2)		Polyvalue Bel Thin Dark Su	low S rface	urface (S (S9) <b>(LRR</b>	8) (LRR R, MLRA 149B) R, MLRA 149B)	2 cm Muck (A10) <b>(L</b> l	RR K, L, MLRA 149B)
	3lack Hi Hydroge	istic (A3) en Sulfide (A4)		Loamy Mucky	y Min d Ma	eral (F1) ( trix (F2)	(LRR K, L)	5 cm Mucky Peat or	r Peat (S3) <b>(LRR K, L, R)</b>
Depleted below Dark Surface (A1) Redox Depressions (F8)	Stratifie	d Layers (A5)	(111)	Depleted Mar	trix (F	=3)		Dark Surface (S7) <b>(L</b> Polyvalue Below Su	. <b>RR K, L)</b> ırface (S8) <b>(LRR K, L)</b>
andy Mucky Mineral (S1)Redox Depressions (F8)	Thick Da	ark Surface (A12)	ice (ATT	Depleted Dark	k Sur	face (F6)		Thin Dark Surface (	S9) (LRR K, L)
Image: Start of the start	Sandy M Sandy G	Aucky Mineral (S1) Gleved Matrix (S4)		Redox Depre	ssion	ıs (F8)		Piedmont Floodplai	in Soils (F19) <b>(MLRA 149B)</b>
Stripped Matrix (S6)	Sandy R	Redox (S5)						Mesic Spodic (TA6) Red Parent Materia	(MLRA 144A, 145, 149B) II (F21)
icators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.  Type: None Hydric Soil Present? Yes No Depth (inches):  harks:	Sundy I								
rrctive Layer (if observed):           Type:         None           Depth (inches):         Hydric Soil Present?   YesNo narks:	Stripped Dark Su	d Matrix (S6) Irface (S7) <b>(LRR R, N</b>	ILRA 149	9B)				Very Shallow Dark S Other (Explain in Re	Surface (TF12) emarks)
Depth (inches): aarks:	Stripped Dark Su	d Matrix (S6) Irface (S7) <b>(LRR R, M</b> of hydrophytic veg	ILRA 149	9 <b>B)</b> and wetland hydr	ology	y must be	e present, unless disturi	Very Shallow Dark S Other (Explain in Re bed or problematic.	Surface (TF12) emarks)
narks:	Stripped Dark Su icators rrictive I	d Matrix (S6) irface (S7) <b>(LRR R, M</b> of hydrophytic veg L <b>ayer (if observed):</b> Type:	ILRA 149	9 <b>B)</b> and wetland hydr None	ology	y must be	e present, unless distur Hydric Soil Present?	Very Shallow Dark S Other (Explain in Re bed or problematic. Yes	Surface (TF12) emarks) No
	Stripped Dark Su icators rictive I	d Matrix (S6) irface (S7) <b>(LRR R, M</b> of hydrophytic veg Layer (if observed): Type: Depth (inches):	ILRA 149	9 <b>B)</b> and wetland hydr None	ology -	y must be	e present, unless disturl Hydric Soil Present?	Very Shallow Dark S Other (Explain in Re bed or problematic. Yes	Surface (TF12) emarks) No
	Stripper Dark Su cators rictive I arks:	d Matrix (S6) irface (S7) <b>(LRR R, M</b> <u>of hydrophytic veg</u> L <b>ayer (if observed):</b> Type: Depth (inches):	ILRA 149	9 <b>B)</b> and wetland hydr None	ology -	y must be	e present, unless disturl Hydric Soil Present?	Very Shallow Dark S Other (Explain in Re bed or problematic. Yes	Surface (TF12) emarks) No
	cators cators rictive I arks:	d Matrix (S6) irface (S7) <b>(LRR R, M</b> <u>of hydrophytic veg</u> L <b>ayer (if observed):</b> Type: Depth (inches):	ILRA 149	9 <b>B)</b> and wetland hydr None	ology -	y must be	e present, unless distur Hydric Soil Present?	Very Shallow Dark S Other (Explain in Re bed or problematic. Yes	Surface (TF12) emarks) No
	tripped Dark Su cators rictive I	d Matrix (S6) irface (S7) <b>(LRR R, M</b> of hydrophytic veg L <b>ayer (if observed):</b> Type: Depth (inches):	ILRA 149	9 <b>B)</b> and wetland hydr None	ology 	y must be	e present, unless distur Hydric Soil Present?	Very Shallow Dark S Other (Explain in Re bed or problematic. Yes	Surface (TF12) emarks) No
	tripped Dark Su cators rictive I	d Matrix (S6) irface (S7) <b>(LRR R, M</b> <u>of hydrophytic veg</u> L <b>ayer (if observed):</b> Type: Depth (inches):	ILRA 149	9 <b>B)</b> and wetland hydr None	ology	y must be	e present, unless disturl Hydric Soil Present?	Very Shallow Dark S Other (Explain in Re bed or problematic. Yes	Surface (TF12) emarks) No
	arky is cators cators rictive I arks:	d Matrix (S6) irface (S7) <b>(LRR R, M</b> <u>of hydrophytic veg</u> L <b>ayer (if observed):</b> Type: Depth (inches):	ILRA 149	9 <b>B)</b> and wetland hydr None	ology	y must be	e present, unless disturi	Very Shallow Dark S Other (Explain in Re bed or problematic. Yes	Surface (TF12) emarks) No
	arky is cators cators rictive I arks:	d Matrix (S6) irface (S7) <b>(LRR R, M</b> of hydrophytic veg L <b>ayer (if observed):</b> Type: Depth (inches):	ILRA 149	9 <b>B)</b> and wetland hydr None	ologj	y must be	e present, unless distur Hydric Soil Present?	Very Shallow Dark S Other (Explain in Re bed or problematic.  Yes	Surface (TF12) emarks) No
	arity is Stripped Dark Su cators rictive I arks:	d Matrix (S6) irface (S7) <b>(LRR R, M</b> <u>of hydrophytic veg</u> L <b>ayer (if observed):</b> Type: Depth (inches):	ILRA 149	9 <b>B)</b> and wetland hydr None	<u>-</u>	y must be	e present, unless distur Hydric Soil Present?	Very Shallow Dark S Other (Explain in Re bed or problematic. Yes	Surface (TF12) emarks) No
	icators rictive I	d Matrix (S6) irface (S7) <b>(LRR R, M</b> of hydrophytic veg L <b>ayer (if observed):</b> Type: Depth (inches):	ILRA 149	9 <b>B)</b> and wetland hydr None	<u>-</u>	y must be	e present, unless disturi	Very Shallow Dark S Other (Explain in Re bed or problematic.  Yes	Surface (TF12) emarks) No
	arks Suripped Dark Su icators rictive I	d Matrix (S6) Irface (S7) <b>(LRR R, M</b> of hydrophytic veg Layer (if observed): Type: Depth (inches):	ILRA 149	9 <b>B)</b> and wetland hydr None	ology	y must be	e present, unless distur Hydric Soil Present?	Very Shallow Dark S Other (Explain in Re bed or problematic. Yes	Surface (TF12) emarks) No
	arks in Stripped Dark Su cators rictive I arks:	d Matrix (S6) irface (S7) <b>(LRR R, M</b> <u>of hydrophytic veg</u> Layer (if observed): Type: Depth (inches):	ILRA 149	9 <b>B)</b> and wetland hydr None	<u>-</u>	y must be	e present, unless disturi	Very Shallow Dark S Other (Explain in Re bed or problematic.  Yes	Surface (TF12) emarks) No
	icators rictive I	d Matrix (S6) irface (S7) <b>(LRR R, M</b> <u>of hydrophytic veg</u> L <b>ayer (if observed):</b> Type: Depth (inches):	ILRA 149	98) and wetland hydr None	<u>-</u>	y must be	e present, unless disturi	Very Shallow Dark S Other (Explain in Re bed or problematic.  Yes	Surface (TF12) emarks)

Vegetation Photos



Soil Photos



Photo of Sample Plot North Photo of Sample Plot East



Photo of Sample Plot South Photo of Sample Plot West



# WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Riverside So	olar	(	City/County: C	haumont, Jeffe	erson		Sampling Date:	2020-June-02	
Applicant/Owner: Ger	onimo				State: NY		Sampling Point: W-NSD-03_UPL-2		
Investigator(s): Nick De	eJohn, Other,	Ben Popham		Sec	tion, Township, Ra	nge:			
Landform (hillslope, terra	ace, etc.):	Flat		Local relief	(concave, convex,	none):	Undulating	Slope (%): 0 to 1	
Subregion (LRR or MLRA)	LRR R			Lat:	44.0657627536	Long:	-76.1138145906	Datum: WGS84	
Soil Map Unit Name:	_cLivingston	mucky silty clay	/				NWI classifi	cation:	
Are climatic/hydrologic co	onditions on t	he site typical f	for this time of	year?	Yes 🟒 No 🔄	(If no	o, explain in Rema	rks.)	
Are Vegetation, So	oil, 🛛 o	r Hydrology	significantly	disturbed?	Are "Normal O	Circums	tances" present?	Yes 🟒 No	
Are Vegetation, So	oil, 🛛 o	r Hydrology	naturally pr	oblematic?	(If needed, ex	plain ar	y answers in Rem	arks.)	

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

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

#### HYDROLOGY

Wetland Hydrology Indicators:				
Primary Indicators (minimum of or	ne is required; check all th	Secondary Indicators (minimum of two required)		
Surface Water (A1) High Water Table (A2) _✔ Saturation (A3) Water Marks (B1) Sediment Deposits (B2)	Water-S Aquatic Marl De Hydroge Oxidizee	g Roots (C3)	<ul> <li>Surface Soil Cracks (B6)</li> <li>Drainage Patterns (B10)</li> <li>Moss Trim Lines (B16)</li> <li>Dry-Season Water Table (C2)</li> <li>Crayfish Burrows (C8)</li> <li>Saturation Visible on Aerial Imagery (C9)</li> </ul>	
<ul> <li>Drift Deposits (B3)</li> <li>Algal Mat or Crust (B4)</li> <li>Iron Deposits (B5)</li> <li>Inundation Visible on Aerial Ima</li> <li>Sparsely Vegetated Concave Su</li> </ul>	Presenc Recent   Thin Mu agery (B7) Other (E ırface (B8)	<ul> <li>Stunted or Stressed Plants (D1)</li> <li>Geomorphic Position (D2)</li> <li>Shallow Aquitard (D3)</li> <li>Microtopographic Relief (D4)</li> <li>FAC-Neutral Test (D5)</li> </ul>		
Field Observations:				
Surface Water Present?	Yes No 🟒	Depth (inches):		
Water Table Present?	Yes No 🟒	Depth (inches):		Wetland Hydrology Present? Yes No
Saturation Present?	Yes 🟒 No	Depth (inches):	4	
(includes capillary fringe)				
Describe Recorded Data (stream g	auge, monitoring well, ae	rial photos, previous ins	pections), if	available:

# VEGETATION -- Use scientific names of plants.

## Sampling Point: W-NSD-03\_UPL-2

Tree Stratum (Plot size: <u>30 ft</u> )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test works	<b>heet:</b> Species That		
1 Carva ovata	60	Yes	FACU	Are OBL, FACW, or FAC	:	1	(A)
2 Ouercus bicolor	10	No	FACW	Total Number of Domi	nant Species		(D)
3			interr	Across All Strata:		5	(B)
4				Percent of Dominant S	pecies That	20	(A/R)
т. 				Are OBL, FACW, or FAC	:		(7,10)
с. 				Prevalence Index work	sheet:		
7				Total % Cover	of:	<u>Multiply</u>	<u>By:</u>
/·	70	= Total Cov	or	OBL species	0	x 1 =	0
Sanling/Shruh Stratum (Plot size: 15 ft )				FACW species	10	x 2 =	20
1 Lonicera morrowii	40	Voc	FACU	FAC species	40	x 3 =	120
2 Phampus cathartica	25	Voc	FACO	FACU species	120	x 4 =	480
	15	No		UPL species	50	x 5 =	250
	15	NO	FAC	Column Totals	220	(A)	870 (B)
4				Prevalence Ir	ndex = B/A =	4	
S				Hydrophytic Vegetatio	n Indicators:		
0				1- Rapid Test for I	- Hydrophytic V	/egetation	
/		Tabal Car		2 - Dominance Te	st is > 50%		
Line Stratum (Distring 5 ft )	80		er	3 - Prevalence Inc	lex is $\leq 3.0^1$		
Herb Stratum (Plot size: <u>5 ft</u> )	50	Vee		4 - Morphological	Adaptations	<sup>1</sup> (Provide	supporting
1. Fragaria vesca	50	Yes		data in Remarks or on	a separate sh	neet)	
2. Ribes oxyacantholdes		res	FACU	Problematic Hydr	ophytic Vege	tation <sup>1</sup> (Ex	plain)
3. Galium mollugo	5	NO	FACU	<sup>1</sup> Indicators of hydric so	il and wetlan	d hydrolo	gy must be
4				present, unless disturb	ed or proble	matic	
5.				Definitions of Vegetation	on Strata:		
6.				Tree – Woody plants 3	in. (7.6 cm) oi	r more in o	diameter at
7				breast height (DBH), re	gardless of h	eight.	
8				Sapling/shrub – Woody	/ plants less t	han 3 in. E	OBH and
9				greater than or equal t	0 3.28 IL ( I M	) tall.	ne velle se sef
10				Herb – All nerbaceous	(non-woody)	plants, reg	gardless of
11				Woody vines All wood		tor than 3	28 ft in
12				height.	uy villes gi ea		.201111
	70	= Total Cov	er		m Dressent2	/a.a	
Woody Vine Stratum (Plot size: <u>30 ft</u> )				Hydrophytic vegetatio	on Present?	res N	10
1							
2							
3							
4							
	0	= Total Cov	er				
Remarks: (Include photo numbers here or on a separat	e sheet.)						

SOIL

## Sampling Point: W-NSD-03\_UPL-2

Profile Deso Depth	ription: (Describe t Matrix	o the d	epth needed to d Redox	locum Feati	ient the i ures	ndicator	or confirm the al	osence of indicato	ors.)
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Textu	Jre	Remarks
0 - 18	10YR 3/1	98	10YR 3/6	2	C	M	Silty Clay	/ Loam	
		_				_			
		_							
'Type: C = C	Concentration, D = [	Depleti	on, RM = Reduced	Mati	rix, MS =	Masked	Sand Grains. <sup>2</sup> Lo	ocation: PL = Pore	e Lining, M = Matrix.
Hydric Soil	Indicators:							Indicators for P	roblematic Hydric Soils <sup>3</sup> :
Histosol Histic Ep Black Hi Hydroge Stratifie Deplete Thick Da Sandy M Sandy R Sandy R Strippee Dark Su	(AT) pipedon (A2) stic (A3) en Sulfide (A4) d Layers (A5) d Below Dark Surfa ark Surface (A12) fucky Mineral (S1) fileyed Matrix (S4) iedox (S5) d Matrix (S6) rface (S7) <b>(LRR R, M</b>	ce (A11 L <b>RA 14</b>	<ul> <li> PolyValue Be</li> <li> Thin Dark Su</li> <li> Loamy Muck</li> <li> Loamy Gleye</li> <li> Depleted Ma</li> <li> Redox Dark 1</li> <li> Depleted Da</li> <li> Redox Depres</li> </ul>	y Min d Ma trix (F Surfac rk Sui	urrace (S (S9) <b>(LRR</b> eral (F1) trix (F2) <sup>-</sup> 3) :e (F6) :face (F7) is (F8)	8) (LRR F R, MLRA (LRR K, L	, MERA 149B) \ 149B) }	2 cm Muck ( Coast Prairie 5 cm Mucky Dark Surfac Polyvalue Be Thin Dark Se Iron-Manga Piedmont Fl Mesic Spodi Red Parent Very Shallov Other (Expla	(A10) (LRR K, L, MLRA 149B) e Redox (A16) (LRR K, L, R) r Peat or Peat (S3) (LRR K, L, R) e (S7) (LRR K, L) elow Surface (S8) (LRR K, L) urface (S9) (LRR K, L) nese Masses (F12) (LRR K, L, R) loodplain Soils (F19) (MLRA 149B) ic (TA6) (MLRA 144A, 145, 149B) Material (F21) w Dark Surface (TF12) ain in Remarks)
<sup>3</sup> Indicators	of hydrophytic vege	etation	and wetland hyd	rolog	/ must be	e presen	t, unless disturbe	d or problematic.	
Restrictive l	ayer (if observed):								
	Type: Depth (inches):		None	-		Hydric	Soil Present?		Yes 🟒 No
Remarks:									

Vegetation Photos



Soil Photos

# WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Riverside	Solar		City/County:	Chaumont, Jef	ferson			Sampling Date	: 2020-June-02
Applicant/Owner:	ieronimo				State:	NY		Sampling Point:	W-NSD-04_PSS-2
Investigator(s): Nick	DeJohn, Othe	r, Ben Popham		Se	ction, Towns	ship, Ra	nge:		
Landform (hillslope, te	rrace, etc.):	Depression		Local relie	ef (concave, o	convex,	none):	Concave	Slope (%): 0 to 1
Subregion (LRR or MLF	RA): LRR	R		Lat	: 44.062532	27034	Long:	-76.1172998697	Datum: WGS84
Soil Map Unit Name:	CpCovingto	on silty clay						NWI classifi	cation:
Are climatic/hydrologic	c conditions o	n the site typical	for this time o	of year?	Yes 🟒	_No	(If no	o, explain in Rema	arks.)
Are Vegetation,	Soil,	or Hydrology	significantl	y disturbed?	Are "N	ormal C	ircums	tances" present?	Yes 🟒 No
Are Vegetation,	Soil,	or Hydrology	naturally p	roblematic?	(If need	ded, exp	olain an	y answers in Rem	narks.)

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

Hydrophytic Vegetation Present? Hydric Soil Present?	Yes 🧹 No Yes 🏑 No	Is the Sampled Area within a Wetland?	Yes / No
Wetland Hydrology Present?	Yes No	If yes, optional Wetland Site ID:	W-NSD-04
Remarks: (Explain alternative procedur	res here or in a separate rep	oort)	
Covertype is PSS.			

#### HYDROLOGY

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

VEGETATION -- Use scientific names of plants.

Sampling Point: W-NSD-04\_PSS-2

Tree Stratum (Plot size: <u>30 ft</u> )	Absolute % Cover	Dominant	Indicator Status	Dominance Test works	heet:		
1		opecies.	Status	Are OBL, FACW, or FAC	:	4	(A)
י. י				Total Number of Domir	nant Species		
2				Across All Strata:	·	4	(B)
				Percent of Dominant S	pecies That	100	(A/P)
ч				Are OBL, FACW, or FAC	:	100	(A/B)
۶				<ul> <li>Prevalence Index works</li> </ul>	sheet:		
7				- <u>Total % Cover</u>	of:	Multiply E	<u>By:</u>
7		- Total Cou		- OBL species	25	x 1 =	25
Capling (Church Stratum (Distaine) 15 ft )	0	- 10tal Cov	er	FACW species	38	x 2 =	76
<u>Sapling/Shrub Stratum</u> (Plot Size: <u>15 it</u> )	20	Vee	FAC	FAC species	30	x 3 =	90
1. Cornus racemosa		Yes	FAC	- FACU species	8	x 4 =	32
2. Salix nigra		<u>No</u>	OBL	- UPL species	0	x 5 =	0
3. Fraxinus pennsylvanica	8	No	FACW	- Column Totals	101	(A)	223 (B)
4. Lonicera morrowii	8	No	FACU	Prevalence Ir	ndex = B/A =	2.2	
5				Hydrophytic Vegetation	n Indicators:		
6				1- Rapid Test for H	Hydrophytic V	egetation	
7				- 2 - Dominance Te	st is >50%	0	
	56	= Total Cov	ver	✓ 3 - Prevalence Ind	lex is $\leq 3.0^1$		
<u>Herb Stratum</u> (Plot size: <u>5 ft</u> )				4 - Morphological	Adaptations	Provide s	upporting
1. <i>Persicaria punctata</i>	15	Yes	OBL	- data in Remarks or on	a separate sh	neet)	apporting
2. <i>Carex bromoides</i>	15	Yes	FACW	Problematic Hydr	ophytic Vege	tation <sup>1</sup> (Exp	olain)
3. <i>Phalaris arundinacea</i>	10	Yes	FACW	<sup>1</sup> Indicators of hydric so	il and wetlan	d hydrolog	y must be
4. Anemone canadensis	5	No	FACW	present, unless disturb	ed or probler	matic	
5				Definitions of Vegetation	on Strata:		
6				Tree – Woody plants 3 i	in. (7.6 cm) or	r more in d	liameter at
7				breast height (DBH), re	gardless of h	eight.	
8.				Sapling/shrub - Woody	/ plants less tl	han 3 in. D	BH and
9.				greater than or equal t	o 3.28 ft (1 m	) tall.	
10.				Herb – All herbaceous	(non-woody)	plants, reg	ardless of
11.				size, and woody plants	less than 3.2	8 ft tall.	
12.				Woody vines – All wood	dy vines great	ter than 3.2	28 ft in
	45	= Total Cov	ver	height.			
Woody Vine Stratum (Plot size: <u>30 ft</u> )		-		Hydrophytic Vegetatio	n Present?	/es 🟒 N	0
1.							
2.				-			
3.				-			
4.				-			
	0	= Total Cov	/er	-			
			-				
Remarks: (Include photo numbers here or on a se	parate sheet.)						

SOIL

repuir achae) Ca	lor (maint)	0/-	Color (maint)	n.	Turcal	1002	Toytura	Domarka
1 - 17	2 5Y 4/1	<u>%0</u> 90	7 5VR 4/6	<u>%0</u> 10			lav Loam	
	2.51 4/1		7.511(4/0	10			lidy Lodin	
				·				
				·				
		<u> </u>		·		· ·		
				·		<u> </u>		
	ntration D - C	<u> </u>	on PM - Poduco	d Mat	riv MS -	Masked Sand Gr	vins 21 ocation	PI - Pore Lining M - Matrix
ric Soil Indica	itors:	epieti	on, RM – Reduce	u wat	TIX, 1013 -			tors for Problematic Hydric Soils <sup>3</sup>
Histosol (A1)			Polvvalue Be	elow S	urface (S	8) (LRR R. MLRA 1	49B)	
Histic Epipedo	on (A2)		Thin Dark Su	urface	(S9) (LRR	R, MLRA 149B)	2	ast Prairie Redox (A16) (LRR K, L, MERA 1496)
Black Histic (A	43)		Loamy Mucl	ky Mir	eral (F1)	(LRR K, L)		cm Mucky Peat or Peat (S3) (I RR K. I. R)
Hydrogen Sul	fide (A4)		Loamy Gley	ed Ma	trix (F2)		Da	ark Surface (S7) <b>(LRR K. L)</b>
Stratified Laye	ers (A5)		Depleted M	atrix (	F3)		Pc	blyvalue Below Surface (S8) (LRR K, L)
Doplated Pala	w Dark Surfa	ce (A1)	<ol> <li>Redox Dark</li> </ol>	Surfa	ce (F6)			in Dark Surface (S9) (LRR K, L)
Depleted Beit			, <u> </u>					
Thick Dark Su	irface (A12)		Depleted Da	ark Su	rface (F7)	1	Irc	on-Manganese Masses (F12) (LRR K, L, R)
Thick Dark Su Sandy Mucky	nface (A12) Mineral (S1)		Depleted Da Redox Depr	ark Su essior	rface (F7) ns (F8)		Irc Pi	on-Manganese Masses (F12) <b>(LRR K, L, R)</b> edmont Floodplain Soils (F19) <b>(MLRA 149B</b>
Thick Dark Su Sandy Mucky Sandy Gleyed	Mineral (S1) Mineral (S1)		Depleted Da Redox Depr	ark Su essior	rface (F7) ıs (F8)		Iro Pi	on-Manganese Masses (F12) <b>(LRR K, L, R)</b> edmont Floodplain Soils (F19) <b>(MLRA 149B</b> ) esic Spodic (TA6) <b>(MLRA 144A, 145, 149B)</b>
Thick Dark Su Sandy Mucky Sandy Gleyed Sandy Redox	Inface (A12) Mineral (S1) Matrix (S4) (S5)		Depleted Da Redox Depr	ark Su essior	rface (F7) 1s (F8)		Irc Pi M Re	on-Manganese Masses (F12) <b>(LRR K, L, R)</b> edmont Floodplain Soils (F19) <b>(MLRA 149B</b> esic Spodic (TA6) <b>(MLRA 144A, 145, 149B)</b> ed Parent Material (F21)
Thick Dark Su Sandy Mucky Sandy Gleyed Sandy Redox Stripped Mati	Inface (A12) Mineral (S1) Matrix (S4) (S5) rix (S6)		Depleted Da Redox Depr	ark Su essior	rface (F7) ns (F8)		Irc Piu M Re Ve	on-Manganese Masses (F12) <b>(LRR K, L, R)</b> edmont Floodplain Soils (F19) <b>(MLRA 149B</b> esic Spodic (TA6) <b>(MLRA 144A, 145, 149B)</b> ed Parent Material (F21) ery Shallow Dark Surface (TF12)
Thick Dark Su Sandy Mucky Sandy Gleyed Sandy Redox Stripped Mate Dark Surface	Irface (A12) Mineral (S1) I Matrix (S4) (S5) rix (S6) (S7) <b>(LRR R, M</b>	LRA 14	Depleted Da Redox Depr	ark Su essior	rface (F7) ıs (F8)		Iro Pi M Re Ve Ot	on-Manganese Masses (F12) <b>(LRR K, L, R)</b> edmont Floodplain Soils (F19) <b>(MLRA 149B</b> ) esic Spodic (TA6) <b>(MLRA 144A, 145, 149B)</b> ed Parent Material (F21) ery Shallow Dark Surface (TF12) cher (Explain in Remarks)
Thick Dark Su Sandy Mucky Sandy Gleyed Sandy Redox Stripped Mati Dark Surface dicators of hyce	Irface (A12) Mineral (S1) I Matrix (S4) (S5) rix (S6) (S7) <b>(LRR R, M</b> i drophytic vege	LRA 14	Depleted Da     Redox Depr	ark Su essior Irolog	rface (F7) is (F8) y must be	e present, unless	Irc Pi M Re Ve Of disturbed or pro	on-Manganese Masses (F12) <b>(LRR K, L, R)</b> edmont Floodplain Soils (F19) <b>(MLRA 149B</b> ) esic Spodic (TA6) <b>(MLRA 144A, 145, 149B)</b> ed Parent Material (F21) ery Shallow Dark Surface (TF12) cher (Explain in Remarks) oblematic.
Thick Dark Su Sandy Mucky Sandy Gleyed Sandy Redox Stripped Mati Dark Surface dicators of hyce trictive Layer	Inface (A12) Mineral (S1) I Matrix (S4) (S5) rix (S6) (S7) (LRR R, Mi drophytic vege (if observed):	LRA 14	Depleted Da Redox Depr  PB) and wetland hyc	ark Su essior Irolog	rface (F7) ıs (F8) y must be	e present, unless	Irc Pi M Re Ve Ot disturbed or pre	on-Manganese Masses (F12) <b>(LRR K, L, R)</b> edmont Floodplain Soils (F19) <b>(MLRA 149B</b> ) esic Spodic (TA6) <b>(MLRA 144A, 145, 149B)</b> ed Parent Material (F21) ery Shallow Dark Surface (TF12) ther (Explain in Remarks) oblematic.
Thick Dark Su Sandy Mucky Sandy Gleyed Sandy Redox Stripped Mati Dark Surface dicators of hyce trictive Layer Type:	in Sun Sun A Irface (A12) Mineral (S1) I Matrix (S4) (S5) rix (S6) (S7) (LRR R, M drophytic vege (if observed):	LRA 14	Depleted Da Redox Depr 	ark Su essior Irolog	rface (F7) ıs (F8) y must be	e present, unless	Irc Pi M Re Ve Of disturbed or pro	on-Manganese Masses (F12) (LRR K, L, R) edmont Floodplain Soils (F19) (MLRA 149B) esic Spodic (TA6) (MLRA 144A, 145, 149B) ed Parent Material (F21) ery Shallow Dark Surface (TF12) ther (Explain in Remarks) oblematic.
Thick Dark Su Sandy Mucky Sandy Gleyed Sandy Redox Stripped Matu Dark Surface licators of hyc trictive Layer Type: Deptl	Inface (A12) Mineral (S1) I Matrix (S4) (S5) rix (S6) (S7) (LRR R, M drophytic vege (if observed): : h (inches):	LRA 14	Depleted Da Redox Depr <b>I9B)</b> and wetland hyc	ark Su essior Irolog	rface (F7) ns (F8) y must be	e present, unless	Irc Pi M Re Ve Of disturbed or pro	on-Manganese Masses (F12) (LRR K, L, R) edmont Floodplain Soils (F19) (MLRA 149B) esic Spodic (TA6) (MLRA 144A, 145, 149B) ed Parent Material (F21) ery Shallow Dark Surface (TF12) ther (Explain in Remarks) oblematic.
Thick Dark Su Sandy Mucky Sandy Gleyed Sandy Redox Stripped Math Dark Surface icators of hyce icators of hyce icators of hyce Type: 	Mineral (S1) Mineral (S1) I Matrix (S4) (S5) rix (S6) (S7) (LRR R, Mi drophytic vege (if observed): : h (inches):	LRA 14	Depleted Da Redox Depr <b>I9B)</b> and wetland hyc None	ark Su essior Irolog	rface (F7) ns (F8) y must be	e present, unless Hydric Soil Pres	Ira Pi M Re Ve Of disturbed or pro	on-Manganese Masses (F12) (LRR K, L, R) edmont Floodplain Soils (F19) (MLRA 1498 esic Spodic (TA6) (MLRA 144A, 145, 1498) ed Parent Material (F21) ery Shallow Dark Surface (TF12) ther (Explain in Remarks) oblematic.
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## Vegetation Photos





Photo of Sample Plot North



Photo of Sample Plot East



Northcentral and Northeast Region -- Version 2.0 Adapted by TRC

#### Photo of Sample Plot South



Photo of Sample Plot West

# WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Riverside Solar	City/County: Chaumont, Jefferson	Sampling Date: 2020-June-02
Applicant/Owner: Geronimo	State: NY	Sampling Point: W-NSD-04_UPL-1
Investigator(s): Nick DeJohn, Other, Ben Pop	bham Section, Township, Range	:
Landform (hillslope, terrace, etc.): Flat	Local relief (concave, convex, no	ne): Undulating Slope (%): 0 to 1
Subregion (LRR or MLRA): LRR R	Lat: 44.0625153948 Lo	ng: -76.1171525997 Datum: WGS84
Soil Map Unit Name: KgAKingsbury silty cl	ay, 0 to 2 percent slopes	NWI classification:
Are climatic/hydrologic conditions on the site	typical for this time of year? Yes 🧹 No (	lf no, explain in Remarks.)
Are Vegetation, Soil, or Hydrol	logy significantly disturbed? Are "Normal Circu	ımstances" present? 🛛 Yes 🟒 No
Are Vegetation, Soil, or Hydrol	logy naturally problematic? (If needed, explai	n any answers in Remarks.)

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

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

#### HYDROLOGY

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

VEGETATION -- Use scientific names of plants.

Sampling Point: W-NSD-04\_UPL-1

	Absolute	Dominant	Indicator	Dominance Test works	heet:		
	% Cover	Species?	Status	Are OBL_EACW, or EAC	Species That	2	(A)
1.		<u> </u>		- Total Number of Domi	 nant Snecies		
2.				Across All Strata:	nanc species	5	(B)
3.				Percent of Dominant S	pecies That		
4.				Are OBL, FACW, or FAC		40	(A/B)
5.		·		Prevalence Index work	sheet:		
b		·		- <u>Total % Cover</u>	<u>of:</u>	<b>Multiply</b>	<u>By:</u>
7				– OBL species	0	x 1 =	0
	0	= lotal Cov	rer	FACW species	30	x 2 =	60
<u>Sapling/Shrub Stratum</u> (Plot size: <u>15 ft</u> )				FAC species	32	x 3 =	96
1. Lonicera morrowii	30	Yes	FACU	– FACU species	55	x 4 =	220
2. Cornus racemosa	15	Yes	FAC	– UPL species	18	x 5 =	90
3		·		Column Totals	135	(A)	466 (B)
4				Prevalence I	ndex = B/A =	3.5	
5.				- Hydrophytic Vegetatio	n Indicators:		
6				1- Rapid Test for	Hydrophytic V	egetation	I
7				2 - Dominance Te	est is > 50%	0	
	45	= Total Cov	rer	3 - Prevalence Inc	dex is $\leq 3.0^1$		
<u>Herb Stratum</u> (Plot size: <u>5 ft</u> )				4 - Morphologica	l Adaptations <sup>1</sup>	(Provide	supporting
1. Phalaris arundinacea	30	Yes	FACW	– data in Remarks or on	a separate sh	leet)	
2. Phleum pratense	25	Yes	FACU	– Problematic Hyd	rophytic Vege	tation¹ (E>	(plain)
3. Fragaria vesca		Yes	UPL	<ul> <li><sup>1</sup>Indicators of hydric so</li> </ul>	oil and wetlan	d hydrolo	gy must be
4. Euthamia graminifolia	12	No	FAC	_ present, unless distur	ped or probler	matic	
5. Cornus racemosa	5	No	FAC	Definitions of Vegetati	on Strata:		
6.				_ Tree – Woody plants 3	in. (7.6 cm) or	more in	diameter at
7				breast height (DBH), re	egardless of h	eight.	
8		·		_ Sapling/shrub - Wood	y plants less ti	han 3 in. [	OBH and
9		·		- Use All borbaccous	(non woodu)	) lall. planta ra	ardlace of
10				size and woody plants	(non-woody)	piants, reį 8 ft tall	gardiess of
11				- Woody vines - All woo	dy vines great	er than 3	28 ft in
12		<u> </u>		height.	ay vines great		.2010111
	90	= Total Cov	er	Hydrophytic Vegetatic	n Procont2		
<u>Woody Vine Stratum</u> (Plot size: <u>30 ft</u> )						les I	NU _ <b>V</b> _
1				_			
2		. <u> </u>		-			
3		. <u> </u>		-			
				-			
4	0	= Total Cov	/er	1			

SOIL

## Sampling Point: W-NSD-04\_UPL-1

icricoj	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture		Remarks
) - 13	10YR 4/2	100				S	ilty Clay Loam		
<u> </u>									
e: C = Cor	icentration, D = [	Depletio	n, RM = Reduced	Matı	rix, MS =	Masked Sand Grain	ns. <sup>2</sup> Location: PL = Pc	Problema	M = Matrix. tic Hydric Soils <sup>3</sup>
Histosol (A	1)		Polyvalue Bel	ow S	urface (S	B) (LRR R, MLRA 14	9B) 2 cm Muc	k (A10) <b>(I R</b>	R K. L. MI RA 149B)
Histic Epip	edon (A2)		Thin Dark Su	rface	(S9) <b>(LRR</b>	R, MLRA 149B)	Coast Pra	irie Redox	(A16) (LRR K, L, R)
slack Histi Hydrogen	c (A3) Sulfide (A4)		Loamy Mucky	y iviin d Ma	eral (FT) ( trix (F2)	LKK K, L)	5 cm Muc	ky Peat or	Peat (S3) <b>(LRR K, L, R)</b>
Stratified L	ayers (A5)		Depleted Ma	trix (F	-3)		Dark Surfa	ace (S7) <b>(LF</b>	RR K, L)
Depleted E	Below Dark Surfa	ice (A11)	 C Redox Dark S	Surfac	ce (F6)		Polyvalue	Below Sur	ace (S8) (LRR K, L)
hick Dark	Surface (A12)		Depleted Dar	'k Sui	face (F7)		Iron-Man	anese Ma	sses (F12) (LRR K. L. R)
Sandy Muo	ky Mineral (S1)		Redox Depre	ssior	ıs (F8)		Piedmont	Floodplair	n Soils (F19) <b>(MLRA 149B</b>
Sandy Gley	/ed Matrix (S4)						Mesic Spc	dic (TA6) <b>(I</b>	MLRA 144A, 145, 149B)
Sandy Red	ox (S5)						Red Parer	nt Material	(F21)
Stripped N	latrix (S6)						Very Shall	ow Dark Si	urface (TF12)
	ce (S7) <b>(LRR R. M</b>	ILRA 149	9B)				Other (Exp	olain in Rei	marks)
Dark Surfa					( must be	present, unless di	sturbed or problemat	ic.	
Dark Surfa licators of	hydrophytic vege	etation a	and wetland hydr	ology	y must be				
Dark Surfa licators of <b>trictive Lay</b>	hydrophytic vege rer (if observed):	etation a	and wetland hydr	ology	y must be		<b>h</b> +7	Voc	
Dark Surfa icators of r <b>ictive Lay</b> Ty	hydrophytic vega er (if observed): pe:	etation a	and wetland hydr	<u>- 0108</u>	y must be	Hydric Soil Preser	nt?	Yes	_ No _
Dark Surfa cators of rictive Lay Ty De arks:	hydrophytic veg rer (if observed): pe: pth (inches):	etation a	and wetland hydr Compaction 13	<u>.</u>		Hydric Soil Preser	nt?	Yes	_ No _
Dark Surfa icators of rictive Lay Ty De arks:	hydrophytic veg r <b>er (if observed):</b> pe: pth (inches):	etation a	and wetland hydr Compaction 13	<u>-</u>	y must be	Hydric Soil Preser	nt?	Yes	_ No _
Dark Surfa cators of rictive Lay Ty De arks:	hydrophytic veg rer (if observed): pe: pth (inches):	etation a	and wetland hydr Compaction 13	<u>.</u>	y must be	Hydric Soil Presei	nt?	Yes	_ No
Dark Surfa cators of rictive Lay Ty De arks:	hydrophytic vege rer (if observed): pe: pth (inches):	etation a	and wetland hydr Compaction 13	<u>.</u>		Hydric Soil Preser	nt?	Yes	_ No
Dark Surfa cators of rictive Lay Ty De arks:	hydrophytic veg rer (if observed): pe: ppth (inches):	etation a	and wetland hydr Compaction 13			Hydric Soil Preser	nt?	Yes	_ No
Dark Surfa cators of rictive Lay Ty De arks:	hydrophytic veg rer (if observed): pe: pth (inches):	etation a	and wetland hydr Compaction 13	<u>.</u>		Hydric Soil Preser	nt?	Yes	No⁄_
Dark Surfa cators of rictive Lay Ty De arks:	hydrophytic veg rer (if observed): pe: pth (inches):	etation a	and wetland hydr Compaction 13	<u>.</u>	y musi be	Hydric Soil Preser	nt?	Yes	No⁄_
Dark Surfa icators of rictive Lay Ty De arks:	hydrophytic veg rer (if observed): pe: pth (inches):	etation a	and wetland hydr Compaction 13		y must be	Hydric Soil Preser	nt?	Yes	No⁄_
Dark Surfa icators of rictive Lay Ty De aarks:	hydrophytic veg rer (if observed): pe: pth (inches):	etation a	and wetland hydr Compaction 13	<u>.</u>	y must be	Hydric Soil Preser	nt?	Yes	_ No
Dark Surfa icators of rrictive Lay Ty De narks:	hydrophytic veg rer (if observed): pe: pth (inches):	etation a	and wetland hydr Compaction 13	<u>.</u>	y must be	Hydric Soil Presei	nt?	Yes	_ No
Dark Surfa icators of trictive Lay Ty De narks:	hydrophytic veg rer (if observed): pe: epth (inches):	etation a	and wetland hydr Compaction 13		y must be	Hydric Soil Presei	nt?	Yes	_ No
Dark Surfa licators of trictive Lay Ty De narks:	hydrophytic vege rer (if observed): pe: ppth (inches):	etation a	and wetland hydr Compaction 13	- -		Hydric Soil Presei	nt?	Yes	_ No
Dark Surfa licators of trictive Lay Ty De narks:	hydrophytic vege rer (if observed): pe: ppth (inches):	etation a	and wetland hydr Compaction 13	- -		Hydric Soil Presei	nt?	Yes	_ No _Z
Dark Surfa licators of trictive Lay Ty De narks:	hydrophytic veg rer (if observed): pe: ppth (inches):	etation a	and wetland hydr Compaction 13			Hydric Soil Presei	nt?	Yes	_ No _Z
Dark Surfa licators of trictive Lay Ty De narks:	hydrophytic veg rer (if observed): pe: ppth (inches):	etation a	and wetland hydr Compaction 13	- -		Hydric Soil Preser	nt?	Yes	_ No _Z
Dark Surfa dicators of trictive Lay Ty De narks:	hydrophytic veg rer (if observed): pe: pth (inches):	etation a	and wetland hydr Compaction 13	- -	y must be	Hydric Soil Preser	nt?	Yes	_ No
Dark Surfa licators of trictive Lay Ty De narks:	hydrophytic veg rer (if observed): pe: pth (inches):	etation a	and wetland hydr Compaction 13	- -	y must be	Hydric Soil Preser	nt?	Yes	_ No



Soil Photos



Photo of Sample Plot North Photo of Sample Plot East



Photo of Sample Plot South Photo of Sample Plot West



# WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Riverside	Solar		City/County: C	haumont, Jefl	erson		Sampling Date:	2020-June-03
Applicant/Owner: Ge	eronimo				State: NY		Sampling Point:	W-NSD-05_PEM-2
Investigator(s): Nick I	DeJohn, Other,	, Ben Popham		See	ction, Township, I	Range:		
Landform (hillslope, ter	race, etc.):	Depression		Local relie	f (concave, conve	ex, none):	Concave	Slope (%): 0 to 1
Subregion (LRR or MLR/	A): LRR R			Lat	44.0607902315	Long:	-76.113894973	Datum: WGS84
Soil Map Unit Name:	LcLivingstor	n mucky silty cla	у				NWI classifi	cation:
Are climatic/hydrologic	conditions on	the site typical	for this time of	year?	Yes 🟒 No	(If n	o, explain in Rema	arks.)
Are Vegetation,	Soil,	or Hydrology	significantly	disturbed?	Are "Norma	l Circums	tances" present?	Yes 🟒 No
Are Vegetation,	Soil,	or Hydrology	naturally pro	oblematic?	(If needed, e	explain ar	iy answers in Rem	arks.)

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

Hydrophytic Vegetation Present?	Yes 🖌 No	Is the Sampled Area within a Wetland?	Vec ( No
Wetland Hydrology Present?	Yes _ 🖌 No	If yes, optional Wetland Site ID:	W-NSD-05
Remarks: (Explain alternative procedur	es here or in a separate rep	port)	
Covertype is PEM.			

#### HYDROLOGY

Primary Indicators (minimum of one is required; check all that apply)       Seconda	a <mark>ry Indicators (minimum of two required)</mark> ace Soil Cracks (B6) nage Patterns (B10) s Trim Lines (B16)
	ace Soil Cracks (B6) nage Patterns (B10) s Trim Lines (B16)
Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Cray	Season Water Table (C2) fish Burrows (C8) ration Visible on Aerial Imagery (C9)
Drift Deposits (B3)      Presence of Reduced Iron (C4)      Stun        Algal Mat or Crust (B4)      Recent Iron Reduction in Tilled Soils (C6)       _ <geor< td="">        Iron Deposits (B5)      Thin Muck Surface (C7)      Shall        Inundation Visible on Aerial Imagery (B7)      Other (Explain in Remarks)      KAC-        Sparsely Vegetated Concave Surface (B8)      FAC-      FAC-</geor<>	ted or Stressed Plants (D1) morphic Position (D2) low Aquitard (D3) otopographic Relief (D4) Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No Depth (inches):	
Water Table Present? Yes No 🖌 Depth (inches): Wetland	Hydrology Present? Yes 🟒 No
Saturation Present? Yes 🖌 No Depth (inches): 0	
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	

VEGETATION -- Use scientific names of plants.

Sampling Point: W-NSD-05\_PEM-2

<u>Tree Stratum</u> (Plot size: <u>30 ft</u> )	Absolute % Cover	Dominant	Indicator Status	Dominance Test work	<b>(sheet:</b> t Species That		
1	70 00101	species.	510105	- Are OBL FACW or FA	C:	1	(A)
1				- Total Number of Don	ninant Species		
2				- Across All Strata:	initiant species	1	(B)
3.				Percent of Dominant	Species That		
4				Are OBL, FACW, or FA	IC:	100	(A/B)
5				- Prevalence Index wo	rksheet:		
6				- <u>Total % Cove</u>	<u>er of:</u>	Multiply E	<u>By:</u>
/				<ul> <li>OBL species</li> </ul>	10	x 1 =	10
	0	= Total Cov	ver	FACW species	65	x 2 =	130
<u>Sapling/Shrub Stratum</u> (Plot size: <u>15 ft</u> )				FAC species	15	x 3 =	45
1				- FACU species	0	x 4 =	0
2				– UPL species	0	x 5 =	0
3				– Column Totals	90	(A)	185 (B)
·				- Prevalence	Index = B/A =	2.1	100 (0)
5					on Indicators:		
6				1 Bapid Test for	on indicators.	logotation	
7					Find the second se	regelation	
	0	= Total Cov	ver	2 - Dominance	200%		
<u>Herb Stratum</u> (Plot size: <u>5 ft</u> )		_		5 - Prevalence in	$10ex IS \leq 5.0^{\circ}$	(Duouido o	
1. Phalaris arundinacea	65	Yes	FACW	4 - Morphologic	ai Auapialions n a senarate sh		upporting
2. Euthamia graminifolia	15	No	FAC	Problematic Hy	dronhytic Vege	tation <sup>1</sup> (Evr	alain)
3. Juncus effusus	10	No	OBL	Indicators of hydric	soil and wetlan	d hydrolog	v must he
4. <i>Carex sp.</i>	5	No	NI	present, unless distu	rbed or proble	matic	y must be
5.				Definitions of Vegeta	tion Strata:	liate	
6.				Tree - Woody plants	3 in. (7.6 cm) oi	r more in d	iameter a
7.				breast height (DBH),	regardless of h	eight.	
8.				Sapling/shrub - Woo	dy plants less t	han 3 in. D	BH and
9.				greater than or equa	l to 3.28 ft (1 m	) tall.	
10.				Herb – All herbaceou	s (non-woody)	plants, reg	ardless of
11		·		size, and woody plan	ts less than 3.2	8 ft tall.	
12				Woody vines – All wo	ody vines great	ter than 3.2	28 ft in
	95	= Total Cov	/er	height.			
Woody Vine Stratum (Plot size: 30 ft )				Hydrophytic Vegetat	ion Present?	/es 🟒 No	0
1							
יי ז				-			
۲				-			
				-			
4.		- Tetal C		-			
	0	= Iotal Cov	/er				

SOIL

## Sampling Point: W-NSD-05\_PEM-2

ches) Color (moist)	%	Color (moist)	% Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks		
2.5Y 4/1	95	10YR 5/8	<u>5</u> <u>C</u>	M Silt	y Clay Loam			
			·					
	 		·					
			·					
pe: C = Concentration, D =	Depleti	on, RM = Reduced	l Matrix, MS	= Masked Sand Grains	5. <sup>2</sup> Location: PL = Pore	Lining, M = Matrix.		
Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Sur Thick Dark Surface (A12) Sandy Mucky Mineral (S1 Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) <b>(LRR R,</b>	face (A11 ) MLRA 14	Polyvalue Be Thin Dark Su Loamy Muck Loamy Gleye _ Depleted Ma ]) Redox Dark S Depleted Da Redox Depre	low Surface rface (S9) <b>(LF</b> y Mineral (F1 d Matrix (F2) trix (F3) Surface (F6) rk Surface (F6) rk Surface (F8)	(58) (LRR R, MLRA 149 RR R, MLRA 149B) I) (LRR K, L) ) 7)	B) 2 cm Muck ( Coast Prairie 5 cm Mucky Dark Surface Polyvalue Be Thin Dark Su Iron-Mangau Piedmont Fl Mesic Spodi Red Parent 1 Very Shallov Other (Expla	A10) (LRR K, L, MLRA 149B) e Redox (A16) (LRR K, L, R) Peat or Peat (S3) (LRR K, L, R) e (S7) (LRR K, L) elow Surface (S8) (LRR K, L) urface (S9) (LRR K, L) nese Masses (F12) (LRR K, L, R) oodplain Soils (F19) (MLRA 149B) c (TA6) (MLRA 144A, 145, 149B) Material (F21) v Dark Surface (TF12) iin in Remarks)		
licators of hydrophytic ve	getation	and wetland hyd	rology must	be present, unless dis	turbed or problematic.			
trictive Layer (if observed Type: Depth (inches):	):	None		Hydric Soil Present	?	Yes No		
Idi KS.								

## Vegetation Photos



Soil Photos

Photo of Sample Plot North



Photo of Sample Plot East



Northcentral and Northeast Region -- Version 2.0 Adapted by TRC

Photo of Sample Plot South



Photo of Sample Plot West

# WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Riverside	oject/Site: Riverside Solar		City/County: Chaumont, Jefferson				Sampling Date: 2020-June-03		
Applicant/Owner: Geronimo		State: NY			IY	Sampling Point: W-NSD-05_PSS-1			
Investigator(s): Nick DeJohn, Other, Ben Popham Section, Township, Rang					ip, Range:				
Landform (hillslope, te	rrace, etc.):	Depression		Local relie	ef (concave, co	nvex, none):	Concave	Slope (%): 0 to 1	
Subregion (LRR or MLR	RA): LRR R	1		Lat	: 44.0608026	367 Long:	-76.1138249841	Datum: WGS84	
Soil Map Unit Name: LcLivingston mucky silty clay NWI classification:					cation:				
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 "Nor	mal Circums	tances" present?	Yes 🟒 No	
Are Vegetation,	Soil, 0	or Hydrology	naturally pro	oblematic?	(lf neede	d, explain ar	iy answers in Rem	arks.)	

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

Hydrophytic Vegetation Present? Hydric Soil Present?	Yes 🧹 No Yes 🏑 No	Is the Sampled Area within a Wetland?	Yes / No
Wetland Hydrology Present?	Yes No	If yes, optional Wetland Site ID:	W-NSD-05
Remarks: (Explain alternative procedure	es here or in a separate rep	port)	
Covertype is PSS.			

#### HYDROLOGY

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

VEGETATION -- Use scientific names of plants.

Sampling Point: W-NSD-05\_PSS-1

Tree Stratum (Plot size: <u>30 ft</u> )	Absolute	Dominant	Indicator	Dominance Test workshe	et:		
	% Cover	species?	Status	Are OBL_EACW_or EAC		4	(A)
1				Total Number of Dominar	nt Species		
2.				Across All Strata:	it opened	4	(B)
3.				Percent of Dominant Species That		100	(4 (D)
4				Are OBL, FACW, or FAC:		100	(A/B)
з. с				Prevalence Index workshe	eet:		
7				— <u>Total % Cover of:</u>		Multiply By:	
/		- Total Cov	lor	- OBL species	88	x 1 =	88
Sapling (Shrub Stratum (Diot cizo: 15 ft )	0	- 10tal COV	ei	FACW species	35	x 2 =	70
<u>Saping/Siriub Stratum</u> (Flot Size. <u>15 it</u> )	20	Voc		FAC species	10	x 3 =	30
1. Saix Tigra		Voc		- FACU species	0	x 4 =	0
2. Splided dibd	10	No		- UPL species	0	x 5 =	0
	10	NU	FAC	- Column Totals	133	(A)	188 (B)
4				Prevalence Inde	ex = B/A =	1.4	
5				Hydrophytic Vegetation Ir	ndicators:		
o				1- Rapid Test for Hyd	drophytic V	egetation	
7		- Total Cau		2 - Dominance Test i	is >50%		
Have Country (Distained Eff. )	55	$\_$ = Total Cover $\_$ 3 - Prevalence Index is $\le 3.0^1$					
Herb Stratum (Piot Size:)	20	Vac		4 - Morphological Ac	daptations <sup>1</sup>	(Provide s	supporting
1. Carex lacustris		Voc		<ul> <li>data in Remarks or on a separate sheet)</li> </ul>			
2. Splided alba	15	No		Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)			
		No		Indicators of hydric soil and wetland hydrology must be			gy must be
4. Juncus enusus	0	No		present, unless disturbed	or probler	natic	
c		NO	UBL	Definitions of Vegetation	Strata:		
o				Iree – Woody plants 3 in.	(/.6 cm) or	more in c	liameter at
/				Sapling/shrub Woody pl	lante loce ti	eigni. han 2 in D	
o				greater than or equal to 3	8 28 ft (1 m	) tall	DH anu
9				Herb – All herbaceous (no	on-woodv)	plants, reg	ardless of
11				size, and woody plants les	ss than 3.2	8 ft tall.	
11				Woody vines - All woody	vines great	er than 3.	28 ft in
12		- Total Cau		height.			
Weady Vina Stratum (Plat size) 20 ft )	/0	= Total Cover Hydrophytic Vegetation Present? Yes			/es 🖌 N	0	
<u>woody vine stratum</u> (Plot size: <u>30 it</u> )				, , , , , , , , , , , , , , , , , , ,			
1				-			
2.				-			
5				-			
4		- Total Cov		-			
	0		er				
Remarks: (Include photo numbers here or on a sepa	rate sheet.)						
SOIL

aches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture		Remarks
) - 20	10YR 4/1	90	7.5YR 4/6	10	С	М	Clay Loar	n	
		·		·					
				: <u> </u>					
		· —							
		·							
		. <u> </u>							
ric Soil	Concentration, D = I Indicators:	Deplet	ion, RM = Reduce	d Mat	rix, MS =	Masked S	and Grains. <sup>2</sup> L	ocation: PL Indicators	= Pore Lining, M = Matrix. s for Problematic Hydric Soils <sup>3</sup> :
Histic Ej Black H Hydrog Stratifie Deplete Fhick D Sandy N Sandy I Sandy I	pipedon (A2) istic (A3) en Sulfide (A4) ed Layers (A5) ed Below Dark Surfa ark Surface (A12) Mucky Mineral (S1) Gleyed Matrix (S4) Redox (S5)	ice (A1	Thin Dark So Loamy Mucl Loamy Gley Depleted M. 1) Redox Dark Depleted Da Redox Depr	urface ky Mir ed Ma atrix ( Surfa ark Su essior	e (S9) <b>(LRF</b> heral (F1) htrix (F2) F3) ce (F6) rface (F7) hs (F8)	R R, MLRA (LRR K, L)	149B)	Coast 5 cm l Dark 9 Polyva Thin I Iron-N Piedm Piedm	Prairie Redox (A16) (LRR K, L, R) Mucky Peat or Peat (S3) (LRR K, L, R) Surface (S7) (LRR K, L) alue Below Surface (S8) (LRR K, L) Dark Surface (S9) (LRR K, L) Manganese Masses (F12) (LRR K, L, R) nont Floodplain Soils (F19) (MLRA 149B) Spodic (TA6) (MLRA 144A, 145, 149B)
Strippe Dark Su	d Matrix (S6) ırface (S7) <b>(LRR R, M</b>	ILRA 14	49B)					Red P Very S Other	arent Material (F21) Shallow Dark Surface (TF12) (Explain in Remarks)
Strippe Dark Su icators	d Matrix (S6) Irface (S7) (LRR R, M of hydrophytic veg	ILRA 14 etatior	<b>49B)</b> n and wetland hyc	irolog	y must b	e present,	unless disturbe	Red P Very S Other d or proble	arent Material (F21) Shallow Dark Surface (TF12) (Explain in Remarks) Pmatic.
Strippe Dark Su licators trictive	d Matrix (S6) urface (S7) <b>(LRR R, M</b> of hydrophytic veg Layer (if observed): Type: Depth (inches):	ILRA 14	<b>49B)</b> a and wetland hyc None	drolog	y must b	e present, Hydric So	unless disturbe bil Present?	Red P Very S Other .d or proble	arent Material (F21) ihallow Dark Surface (TF12) (Explain in Remarks) matic. Yes No
arley i Strippe Dark Su cators rictive	d Matrix (S6) urface (S7) <b>(LRR R, M</b> of hydrophytic veg <b>Layer (if observed):</b> Type: Depth (inches):	LIRA 1	<b>49B)</b> n and wetland hyd None	drolog	y must b	e present, Hydric So	unless disturbe	Red P Very S Other d or proble	arent Material (F21) Shallow Dark Surface (TF12) (Explain in Remarks) Sematic. Yes No
arks; i Strippe Dark Su cators rictive arks:	d Matrix (S6) urface (S7) <b>(LRR R, M</b> of hydrophytic veg <b>Layer (if observed):</b> Type: Depth (inches):	etatior	49B) n and wetland hyd None	-	y must b	e present, Hydric So	unless disturbe	Red P Very S Other d or proble	arent Material (F21) Shallow Dark Surface (TF12) (Explain in Remarks) Sematic. YesNo
arks; itrippe Dark Su cators rictive arks:	d Matrix (S6) urface (S7) <b>(LRR R, M</b> <u>of hydrophytic veg</u> <b>Layer (if observed):</b> Type: <u>Depth (inches):</u>	etatior	49B) n and wetland hyd None		y must b	e present, Hydric So	unless disturbe	Red P Very S Other d or proble	arent Material (F21) Shallow Dark Surface (TF12) (Explain in Remarks) Sematic. Yes No

## Vegetation Photos



Soil Photos



Photo of Sample Plot North





Photo of Sample Plot South

Photo of Sample Plot West



# WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Riverside Solar	City/County: Chaumont, Jefferson	Sampling Date: 2020-June-03
Applicant/Owner: Geronimo	State: NY	Sampling Point: W-NSD-05_UPL-1
Investigator(s): Nick DeJohn, Other, Ben Popham	Section, Township, Range:	
Landform (hillslope, terrace, etc.): Flat	Local relief (concave, convex, none):	Undulating Slope (%): 0 to 1
Subregion (LRR or MLRA): LRR R	Lat: 44.0594342733 Long:	-76.1162035244 Datum: WGS84
Soil Map Unit Name: LcLivingston mucky silty cl	ау	NWI classification:
Are climatic/hydrologic conditions on the site typica	for this time of year? Yes 🖌 No (If no	o, explain in Remarks.)
Are Vegetation, Soil, or Hydrology	significantly disturbed? Are "Normal Circums	tances" present? Yes 🟒 No
Are Vegetation, Soil, or Hydrology _	naturally problematic? (If needed, explain ar	າy answers in Remarks.)

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

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

#### HYDROLOGY

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

VEGETATION -- Use scientific names of plants.

Sampling Point: W-NSD-05\_UPL-1

1				_	species mat	1	(A)
		·		Are OBL, FACW, or FAC Total Number of Domi	: nant Species		(P)
3.				Across All Strata:		5	(B)
4.				<ul> <li>Percent of Dominant S</li> <li>Are OBL, FACW, or FAC</li> </ul>	pecies That :	33.3	(A/B)
5				- Prevalence Index work	sheet:		
6				- Total % Cover	of:	Multiply	By:
7				– OBL species	0	x 1 =	0
	0	= Total Cov	er	FACW species	40	x 2 =	80
Sapling/Shrub Stratum (Plot size: <u>15 ft</u> )				FAC species	0	x 3 =	0
1				- FACU species	48	x 4 =	192
2				– UPL species	0	x 5 =	0
3				– Column Totals	88	(A)	272 (B)
4.				Prevalence l	ndex = B/A =	3.1	272 (8)
5							
6				1 Papid Test for	Hydrophytic V	logotation	
7					1 you opinytic v	egetation	
	0	= Total Cov	er	2 - Dominance re	$\frac{1}{100} = \frac{1}{100} = \frac{1}$		
<u>Herb Stratum</u> (Plot size: <u>5 ft</u> )				3 - Prevalence inc	$L \wedge daptations^1$	(Provido	cupporting
1. <i>Phalaris arundinacea</i>	40	Yes	FACW	4 = Morphologica	a senarate sh		supporting
2. Trifolium pratense	20	Yes	FACU	Problematic Hydr	rophytic Veget	tation <sup>1</sup> (Ex	(plain)
3. Phleum pratense	20	Yes	FACU	- <sup>1</sup> Indicators of hydric so	oil and wetland	d hydrolo	gy must be
4. Taraxacum officinale	8	No	FACU	present, unless disturb	ped or probler	natic	6) 11451 50
5.				Definitions of Vegetati	on Strata:		
6.				Tree – Woody plants 3	in. (7.6 cm) or	more in o	diameter at
7.				breast height (DBH), re	gardless of h	eight.	
8.				Sapling/shrub - Wood	y plants less tl	nan 3 in. E	OBH and
9.				greater than or equal t	o 3.28 ft (1 m	) tall.	
10.				Herb – All herbaceous	(non-woody)	plants, reg	gardless of
11.				size, and woody plants	less than 3.2	8 ft tall.	
12.				Woody vines – All woo	dy vines great	er than 3.	.28 ft in
	88	= Total Cov	er	height.			
Woody Vine Stratum (Plot size: 30 ft )		-		Hydrophytic Vegetatio	on Present?	′es N	lo 🖌
1.							
2		· ·		-			
3		<u> </u>		-			
4				-			
		= Total Cov	or	-			
		-	C1				

SOIL

Sampling Point: W-NSD-05\_UPL-1

inches)	Color (moist)	%	Color (moist)	% Type <sup>1</sup>	Loc <sup>2</sup> Tex	ture	Remarks
0 - 7	10YR 3/2	100			Clay	Loam	
		· ·			 		
		· ·		·			
/pe: C = C	oncentration, D = I	Depletio	n, RM = Reduced	Matrix, MS =	= Masked Sand Grains.	<sup>2</sup> Location: PL = Pore	Lining, M = Matrix.
_ Histosol _ Histic Ep _ Black Hit _ Hydroge _ Stratified _ Depleted _ Thick Da _ Sandy N _ Sandy R _ Sandy R	(A1) sipedon (A2) stic (A3) d Layers (A5) d Below Dark Surfa rk Surface (A12) lucky Mineral (S1) leyed Matrix (S4) edox (S5)	ace (A11)	<ul> <li>Polyvalue Bel</li> <li>Thin Dark Sur</li> <li>Loamy Mucky</li> <li>Loamy Gleyer</li> <li>Depleted Mai</li> <li>Redox Dark S</li> <li>Depleted Dar</li> <li>Redox Depre</li> </ul>	iow Sufface ( rface (S9) <b>(LR</b> y Mineral (F1 d Matrix (F2) trix (F3) iurface (F6) ik Surface (F6) ssions (F8)	58) (LRR R, MLRA 1498)   R R, MLRA 1498) ) (LRR K, L) 7)	<ul> <li>2 cm Muck (A</li> <li>Coast Prairie</li> <li>5 cm Mucky I</li> <li>Dark Surface</li> <li>Polyvalue Be</li> <li>Thin Dark Su</li> <li>Iron-Mangan</li> <li>Piedmont Flc</li> <li>Mesic Spodic</li> <li>Red Parent M</li> </ul>	10) (LRR K, L, MLRA 149B) Redox (A16) (LRR K, L, R) Peat or Peat (S3) (LRR K, L, R) (S7) (LRR K, L) low Surface (S8) (LRR K, L) rface (S9) (LRR K, L) ese Masses (F12) (LRR K, L, R) podplain Soils (F19) (MLRA 149B) (TA6) (MLRA 144A, 145, 149B) faterial (F21)
_ Strippec _ Dark Su	l Matrix (S6) rface (S7) <b>(LRR R, N</b>	1LRA 149	9B)			Very Shallow Other (Explai	Dark Surface (TF12) n in Remarks)
_ Stripped _ Dark Sundicators (	l Matrix (S6) rface (S7) <b>(LRR R, M</b> of hydrophytic veg	ILRA 149 etation a	<b>9B)</b> and wetland hydr	ology must l	pe present, unless distu	Very Shallow Other (Explai urbed or problematic.	Dark Surface (TF12) n in Remarks)
_ Stripped _ Dark Sundicators ( estrictive L	l Matrix (S6) rface (S7) <b>(LRR R, M</b> of hydrophytic veg . <b>ayer (if observed):</b>	ILRA 149	<b>9B)</b> and wetland hydr	ology must b	pe present, unless distu	Very Shallow Other (Explai Irbed or problematic.	Dark Surface (TF12) n in Remarks)
_ Strippec _ Dark Su ndicators ( strictive L	l Matrix (S6) rface (S7) <b>(LRR R, N</b> of hydrophytic veg a <b>yer (if observed):</b> Type: Depth (inches):	ILRA 149	9 <b>B)</b> and wetland hydr il compaction 7	ology must t	be present, unless distu Hydric Soil Present?	Very Shallow Other (Explai urbed or problematic. Yes	Dark Surface (TF12) n in Remarks)

#### Vegetation Photos



Soil Photos

Photo of Sample Plot North



Photo of Sample Plot East



Photo of Sample Plot South



Photo of Sample Plot West



# WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Riverside	Solar		City/County: Cl	haumont, Jel	fferson			Sampling Date:	2020-June-03
Applicant/Owner: G	eronimo				State:	NY		Sampling Point:	W-NSD-06_PSS-1
Investigator(s): Nick	DeJohn, Other,	, Ben Popham		Se	ection, Town	ship, Ra	nge:		
Landform (hillslope, ter	rrace, etc.):	Depression		Local reli	ef (concave,	convex,	none):	Undulating	Slope (%): 0 to 1
Subregion (LRR or MLR	A): LRR R			La	t: 44.06232	10185	Long:	-76.113367416	Datum: WGS84
Soil Map Unit Name:	LcLivingstor	n mucky silty cla	у					NWI classific	cation:
Are climatic/hydrologic	conditions on	the site typical	for this time of	year?	Yes 🟒	_ No	(If no	, explain in Rema	rks.)
Are Vegetation,	Soil, o	or Hydrology	significantly	disturbed?	Are "N	lormal C	ircumst	ances" present?	Yes 🟒 No
Are Vegetation,	Soil, c	or Hydrology	naturally pro	oblematic?	(If nee	ded, exp	olain an	y answers in Rem	arks.)

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

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

### HYDROLOGY

Wetland Hydrology Indicators:						
Primary Indicators (minimum of or	ne is required;	check all th	nat apply)		Secondary Indicators (minimum of two required)	
Surface Water (A1) High Water Table (A2) _✔ Saturation (A3) Water Marks (B1) Sediment Deposits (B2)	<ul> <li>Water-Stained Leaves (B9)</li> <li>Aquatic Fauna (B13)</li> <li>Marl Deposits (B15)</li> <li>Hydrogen Sulfide Odor (C1)</li> <li>Oxidized Rhizospheres on Living Roots (C3)</li> </ul>			<ul> <li>Surface Soil Cracks (B6)</li> <li>Drainage Patterns (B10)</li> <li>Moss Trim Lines (B16)</li> <li>Dry-Season Water Table (C2)</li> <li>Crayfish Burrows (C8)</li> <li>Saturation Visible on Aerial Imagery (C9)</li> </ul>		
<ul> <li>Drift Deposits (B3)</li> <li>Algal Mat or Crust (B4)</li> <li>Iron Deposits (B5)</li> <li>Inundation Visible on Aerial Imagery (B7)</li> <li>Sparsely Vegetated Concave Surface (B8)</li> </ul>				<ul> <li>Stunted or Stressed Plants (D1)</li> <li>Geomorphic Position (D2)</li> <li>Shallow Aquitard (D3)</li> <li>Microtopographic Relief (D4)</li> <li>FAC-Neutral Test (D5)</li> </ul>		
Field Observations:						
Surface Water Present?	Yes No _	1	Depth (inches):			
Water Table Present?	Yes No _	1	Depth (inches):		- Wetland Hydrology Present? Yes _∠_ No	
Saturation Present?	Yes 🟒 No		Depth (inches):	0	-	
(includes capillary fringe)					-	
Describe Recorded Data (stream g	auge, monitori	ng well, ae	rial photos, previous insp	pections), if	available:	

VEGETATION -- Use scientific names of plants.

Sampling Point: W-NSD-06\_PSS-1

Tree Stratum (Plot size: 30 ft )	Absolute	Dominant	Indicator	Dominance Test works	heet:		
	% Cover	Species?	Status	Number of Dominant S	Species That	4	(A)
1				Are OBL, FACW, or FAC	:		
2				Across All Strata	hant Species	4	(B)
3				- Percent of Dominant S	necies That		
4.				- Are OBL, FACW, or FAC	:	100	(A/B)
5.				Prevalence Index work	sheet:		
6.				- <u>Total % Cover</u>	of:	<u>Multiply</u>	<u>By:</u>
7				- OBL species	0	x 1 =	0
	0	= lotal Cov	/er	FACW species	95	x 2 =	190
Sapling/Shrub Stratum (Plot size: <u>15 ft</u> )				FAC species	47	x 3 =	141
1. <i>Spiraea alba</i>	40	Yes	FACW	– FACU species	5	x 4 =	20
2. <u>Cornus racemosa</u>	10	No	FAC	– UPL species	0	x 5 =	0
3. <u>Quercus bicolor</u>	5	No	FACW	– Column Totals	147	(A)	351 (B)
4				Prevalence Ir	ndex = B/A =	2.4	
5				Hydrophytic Vegetation	n Indicators:		
6				1- Rapid Test for H	-lydrophytic V	/egetation	
7				- 🖌 2 - Dominance Te	st is >50%	U	
	55	= Total Cov	/er	✓ 3 - Prevalence Inc	lex is $\leq 3.0^1$		
<u>Herb Stratum</u> (Plot size: <u>5 ft</u> )				4 - Morphological	Adaptations	(Provide	supporting
1. Carex bromoides	30	Yes	FACW	data in Remarks or on	a separate sh	neet)	
2. <i>Spiraea alba</i>	20	Yes	FACW	Problematic Hydr	ophytic Vege	tation <sup>1</sup> (Ex	plain)
3. <i>Toxicodendron radicans</i>	20	Yes	FAC	<sup>1</sup> Indicators of hydric so	il and wetlan	d hydrolo	gy must be
4. Cornus racemosa	12	No	FAC	present, unless disturb	ed or probler	matic	
5. <u>Acer rubrum</u>	5	No	FAC	Definitions of Vegetation	on Strata:		
6. <i>Vicia americana</i>	5	No	FACU	Tree – Woody plants 3	in. (7.6 cm) or	r more in o	diameter at
7				breast height (DBH), re	gardless of h	eight.	
8				Sapling/shrub – Woody	v plants less tl	han 3 in. E	OBH and
9				greater than or equal t	o 3.28 ft (1 m	) tall.	
10				Herb – All herbaceous	(non-woody)	plants, reg	gardless of
11				size, and woody plants	less than 3.2	8 ft tall.	
12				Woody vines – All wood	dy vines great	ter than 3.	28 ft in
	92	= Total Cov	/er	neight.			
<u>Woody Vine Stratum</u> (Plot size: <u>30 ft</u> )				Hydrophytic Vegetatio	n Present?	res 🟒 N	lo
1				_			
2				_			
3				_			
4							
	0	= Total Cov	/er				
Pemarks: (Include photo numbers here or on a const	to choot )						
Remarks. (include photo numbers here or on a separ	ale sheel.)						

SOIL

,	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0 - 9	10YR 3/1	98	7.5YR 4/6	2	C	M/PL	Silty Clay Loam	
9 - 20	5Y 5/1	90	7.5YR 5/8	10	С	М	Clay Loam	
						<u> </u>		
				·				
				·				
				·		·		
				·				
<u></u>		Doplat	tion DM - Doduce		triv MC -	- Macked Sand Gra	ing 21 ocation: DL - Do	ro Lipipa M - Matrix
fric Soil	Indicators:	Depiel	uon, rivi – reuuce		u ix, ivis =	- waskeu Sallu Glä	Indicators for	Problematic Hydric Soils <sup>3</sup> :
Histoso	l (A1)		Polyvalue E	elow	Surface (	S8) <b>(LRR R, MLRA 1</b>	<b>49B)</b> 2 cm Muck	(A10) (LRR K, L, MLRA 149B)
Histic Ep	pipedon (A2)		Thin Dark S	urfac	e (S9) <b>(LR</b>	R R, MLRA 149B)	Coast Prai	rie Redox (A16) <b>(LRR K, L, R)</b>
Black Hi	istic (A3)		Loamy Muo	ky Mi	neral (F1)	) (LRR K, L)	5 cm Muck	y Peat or Peat (S3) <b>(LRR K, L, R)</b>
Hydroge	en Sullide (A4)		Loarny Gley	/ea ivi Istriv	atrix (FZ) (E2)		Dark Surfa	ice (S7) <b>(LRR K, L)</b>
Denlete	d Below Dark Surf	ace (A1	Depieted iv	surf:	(FS) ace (F6)		Polyvalue	Below Surface (S8) <b>(LRR K, L)</b>
Thick Da	ark Surface (A12)		Depleted D	ark Si	urface (F7	7)	Thin Dark	Surface (S9) <b>(LRR K, L)</b>
Sandy N	/ucky Mineral (S1)		Bedox Dep	ressic	ons (F8)	1	Iron-Mang	anese Masses (F12) <b>(LRR K, L, R)</b>
Sandy G	Gleved Matrix (S4)		<u></u> edox.b.ep				Piedmont	Floodplain Soils (F19) <b>(MLRA 149B)</b>
Sandy E	Pedax (S5)						Mesic Spo	dic (TA6) <b>(MLRA 144A, 145, 149B)</b>
Strippo	d Matrix (SG)						Red Paren	t Material (F21)
Supper		41 DA 4	400)				Very Shallo	ow Dark Surface (TF12)
Dark Su	iriace (S7) <b>(LRR R, I</b>	ALKA I	49B)				Other (Exp	lain in Remarks)
dicators	of hydrophytic veg Laver (if observed)	etatio	n and wetland hy	drolo	gy must k	pe present, unless	disturbed or problemati	с.
	Type <sup>.</sup>	•	None			Hydric Soil Prese	nt?	Yes / No
	Type.		None	•		Tryune Son Treser		
	Denth (inches)							
narks:	Depth (inches):							
narks:	Depth (inches):							
arks:	Depth (inches):							
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marks:	Depth (inches):							
narks:	Depth (inches):							
narks:	Depth (inches):							



Soil Photos



Photo of Sample Plot North Photo of Sample Plot East



Photo of Sample Plot South Photo of Sample Plot West



## WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Riverside Solar	City/County: Chaumont, Jefferson	Sampling Date: 2020-June-03
Applicant/Owner: Geronimo	State: NY	Sampling Point: W-NSD-06_UPL-1
Investigator(s): Nick DeJohn, Other, Ben Popham	Section, Township, Range:	
Landform (hillslope, terrace, etc.): Flat	Local relief (concave, convex, none):	Undulating Slope (%): 0 to 1
Subregion (LRR or MLRA): LRR R	Lat: 44.0624251217 Long:	-76.113391975 Datum: WGS84
Soil Map Unit Name:LcLivingston mucky silty cl	ау	NWI classification:
Are climatic/hydrologic conditions on the site typica	for this time of year? Yes 🖌 No (If no	o, explain in Remarks.)
Are Vegetation, Soil, or Hydrology _	significantly disturbed? Are "Normal Circums	tances" present? Yes 🟒 No
Are Vegetation, Soil, or Hydrology _	naturally problematic? (If needed, explain ar	iy answers in Remarks.)

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

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

### HYDROLOGY

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

VEGETATION -- Use scientific names of plants.

Sampling Point: W-NSD-06\_UPL-1

Tree Stratum (Plot size: <u>30 ft</u> )	Absolute % Cover	Dominant	Indicator	Dominance Test works	heet:		
1 Carua ouata	30	Voc	EACU	Are OBL, FACW, or FAC		4	(A)
2 Overcus hicolor		Voc	FACW	Total Number of Domi	nant Species		(D)
2. Quercus bicolor	0	165	FACW	Across All Strata:	·	6	(B)
				Percent of Dominant S	pecies That	66.7	(A /P)
ч. 				Are OBL, FACW, or FAC		00.7	(A/ B)
5				<ul> <li>Prevalence Index work</li> </ul>	sheet:		
7				- <u>Total % Cover</u>	of:	Multiply	<u>By:</u>
7		- Total Cov		- OBL species	0	x 1 =	0
Capling/Chruh Stratum (Dist size) 15 ft )		- 10tal COV	er	FACW species	50	x 2 =	100
<u>Sapling/Shrub Stratum</u> (Plot Size: <u>15 it</u> )	40	Vac	FACU	FAC species	50	x 3 =	150
		Yes	FACU	- FACU species	80	x 4 =	320
2. Cornus racemosa		Yes	FAC	UPL species	0	x 5 =	0
3. Rhamnus cathartica	12	NO	FAC	- Column Totals	180	(A)	570 (B)
4.				Prevalence In	ndex = B/A =	3.2	
5				Hydrophytic Vegetation	n Indicators:		
6				1- Rapid Test for I	Hvdrophytic V	egetation	
7				- 2 - Dominance Te	st is >50%	0	
	72	= Total Cov	er	3 - Prevalence Inc	dex is $\leq 3.0^1$		
<u>Herb Stratum</u> (Plot size: <u>5 ft</u> )				4 - Morphological	Adaptations <sup>1</sup>	(Provide	supporting
1. <i>Carex bromoides</i>	30	Yes	FACW	- data in Remarks or on	a separate sh	ieet)	
2. <i>Spiraea alba</i>	12	Yes	FACW	Problematic Hydr	rophytic Vege	tation <sup>1</sup> (Ex	plain)
3. <i>Lonicera morrowii</i>	10	No	FACU	<sup>1</sup> Indicators of hydric sc	oil and wetlan	d hydrolog	gy must be
4. <u>Cornus racemosa</u>	8	No	FAC	present, unless disturb	bed or probler	matic	
5. <i>Rhamnus cathartica</i>	5	No	FAC	Definitions of Vegetation	on Strata:		
6. Acer rubrum	5	No	FAC	Tree – Woody plants 3	in. (7.6 cm) or	r more in o	diameter at
7.				breast height (DBH), re	gardless of h	eight.	
8.				Sapling/shrub - Woody	y plants less tl	han 3 in. D	OBH and
9.				greater than or equal t	:o 3.28 ft (1 m	) tall.	
10.				Herb – All herbaceous	(non-woody)	plants, reg	gardless of
11.				size, and woody plants	less than 3.2	8 ft tall.	
12.				Woody vines – All woo	dy vines great	ter than 3.	28 ft in
	70	= Total Cov	er	height.			
Woody Vine Stratum (Plot size: 30 ft )		_		Hydrophytic Vegetatic	on Present?	/es 🟒 N	lo
1.							
2				-			
				-			
				-			
т. 		- Total Cov	or	-			
	0	- 10101 COV					
Remarks: (Include photo numbers here or on a se	parate sheet.)						

SOIL

Sampling Point: W-NSD-06\_UPL-1

	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup> Tex	ture F	Remarks
0-13	10YR 3/1	100				Silty Cl	ay Loam	
13-16	10YR 5/1	95	7.5YR 5/8	5	С	M Clay	Loam	
		·		·				
 		·		·				
	prophysical D -	. <u> </u>	p. DM - Doducod	- <u> </u>		Macked Cand Crains 2	acation: DL - Dara Lining M - Ma	triv.
Type. C – CC Hydric Soil Ir	dicators:	Depletio	n, Rivi – Reduced	Watri	IX, IVIS –	Maskeu Sanu Grains. *i	Indicators for Problematic Hydr	ir Soils <sup>3.</sup>
Black His Hydroger Stratified Depleted Sandy Mu Sandy Gl Sandy Re Stripped Dark Sur	tic (A3) n Sulfide (A4) Layers (A5) Below Dark Surfa k Surface (A12) ucky Mineral (S1) eyed Matrix (S4) dox (S5) Matrix (S6) face (S7) (LRR R, M	ace (A11) ILRA 14	Loamy Mucky Loamy Gleye Depleted Ma Redox Dark S Depleted Dar Redox Depre	y Mine d Mat trix (F: Surface k Surf ssions	eral (F1) rix (F2) 3) e (F6) face (F7) s (F8)	(LRR K, L)	<ul> <li>5 cm Mucky Peat or Peat (S2</li> <li>Dark Surface (S7) (LRR K, L)</li> <li>Polyvalue Below Surface (S8</li> <li>Thin Dark Surface (S9) (LRR</li> <li>Iron-Manganese Masses (F1</li> <li>Piedmont Floodplain Soils (F</li> <li>Mesic Spodic (TA6) (MLRA 14</li> <li>Red Parent Material (F21)</li> <li>Very Shallow Dark Surface (</li> <li>Other (Explain in Remarks)</li> </ul>	3) (LRR K, L, R) 4) (LRR K, L) 4) (LRR K, L) 2) (LRR K, L, R) 519) (MLRA 149B) 144A, 145, 149B) 1F12)
Indicators o	f hydrophytic veg	etation a	and wetland hydr	ology	must be	e present, unless disturb l	ed or problematic.	
			Roots			Hydric Soil Present?	Yes No	1
T	VUC.			-				<b></b>
۲ ۲ ۱ ۱ ۱ ۲ ۲ ۲	ype. Depth (inches):		16			I		

#### Soil Photos



Photo of Sample Plot North Photo of Sample Plot East



Photo of Sample Plot South Photo of Sample Plot West



# WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Riverside	e Solar		City/County:	Chaumont, Jef	ferson			Sampling Date:	2020-June-03
Applicant/Owner: G	ieronimo				State:	NY		Sampling Point:	W-NSD-07_PEM-2
Investigator(s): Nick	DeJohn, Othe	r, Ben Popham		Se	ction, Towns	ship, Ra	nge:		
Landform (hillslope, te	rrace, etc.):	Depression		Local reli	ef (concave,	convex,	none):	Concave	Slope (%): 0 to 1
Subregion (LRR or MLF	RA): LRR	R		La	t: 44.059760	0389	Long:	-76.1069644802	Datum: WGS84
Soil Map Unit Name:	CpCovingto	on silty clay						NWI classifi	cation:
Are climatic/hydrologic	c conditions o	n the site typical	for this time o	of year?	Yes 🟒	_ No	(If no	o, explain in Rema	arks.)
Are Vegetation,	Soil,	or Hydrology	significantl	ly disturbed?	Are "N	ormal C	ircumst	tances" present?	Yes 🟒 No
Are Vegetation,	Soil,	or Hydrology	naturally p	roblematic?	(If nee	ded, exp	olain an	y answers in Rem	arks.)

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

Hydrophytic Vegetation Present?	Yes 🖌 No	La Alex Course La d'Anna a stàth in a Matatana dD	Vec d Ne
Hydric Soll Present?	Yes INO	is the Sampled Area within a wetland?	Yes No
Wetland Hydrology Present?	Yes 🟒 No	If yes, optional Wetland Site ID:	W-NSD-07
Remarks: (Explain alternative procedur	es here or in a separate rep	port)	
Covertype is PEM.			

### HYDROLOGY

Wetland Hydrology Indicators:					
Primary Indicators (minimum of or	ne is required; check all	Secondary Indicators (minimum of two required)			
Surface Water (A1) _✓ High Water Table (A2) _✓ Saturation (A3) Water Marks (B1) Sediment Deposits (B2)	Water Aquat Marl I Hydro Oxidiz	g Roots (C3)	<ul> <li>Surface Soil Cracks (B6)</li> <li>Drainage Patterns (B10)</li> <li>Moss Trim Lines (B16)</li> <li>Dry-Season Water Table (C2)</li> <li>Crayfish Burrows (C8)</li> <li>Saturation Visible on Aerial Imagery (C9)</li> </ul>		
Drift Deposits (B3)       Presence of Reduced Iron (C4)         Algal Mat or Crust (B4)       Recent Iron Reduction in Tilled Soils (C6)         Iron Deposits (B5)       Thin Muck Surface (C7)         Inundation Visible on Aerial Imagery (B7)       Other (Explain in Remarks)         Sparsely Vegetated Concave Surface (B8)       Other (Explain in Remarks)				<ul> <li> Stunted or Stressed Plants (D1)</li> <li> Geomorphic Position (D2)</li> <li> Shallow Aquitard (D3)</li> <li> Microtopographic Relief (D4)</li> <li> FAC-Neutral Test (D5)</li> </ul>	
Field Observations:					
Surface Water Present?	Yes No 🟒	Depth (inches):			
Water Table Present?	Yes 🟒 No	Depth (inches):	4	Wetland Hydrology Present?   Yes No	
Saturation Present?	Yes 🟒 No	Depth (inches):	0		
(includes capillary fringe)					
Describe Recorded Data (stream g	auge, monitoring well, a	aerial photos, previous ins	pections), if	available:	

VEGETATION -- Use scientific names of plants.

Sampling Point: W-NSD-07\_PEM-2

Tree Stratum (Plot size: <u>30 ft</u> )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test works	<b>sheet:</b> Species That	2	(A)
1				Total Number of Dom	_: inant Species	2	 (B)
3.				Across All Strata:			
4				- Are OBL, FACW, or FAC	species mat	100	(A/B)
5				Prevalence Index worl	ksheet:		
6				- <u>Total % Cove</u>	<u>r of:</u>	Multiply B	<u>iy:</u>
7				- OBL species	75	x 1 =	75
	0	= Total Cov	er	FACW species	25	x 2 =	50
<u>Sapling/Shrub Stratum</u> (Plot size: <u>15 ft</u> )				FAC species	0	x 3 =	0
1. <i>Salix bebbiana</i>	10	Yes	FACW	- FACU species	0	x 4 =	0
2				- UPL species	0	x 5 =	0
3				- Column Totals	100	(A)	125 (B)
4.				- Prevalence I	ndex = B/A =	1.3	
5				Hydrophytic Vegetatic	n Indicators		
6				- 1- Rapid Test for	Hydrophytic V	egetation	
7				- 2 - Dominance Te	-st is >50%	6866666	
	10	= Total Cov	er	. 3 - Prevalence In	dex is $< 3.0^{1}$		
<u>Herb Stratum</u> (Plot size: <u>5 ft</u> )				4 - Mornhologica	dex is <u> </u>	(Provide s	unnorting
1. <i>Carex lacustris</i>	75	Yes	OBL	- data in Remarks or on	i a separate sh	(i roviac s	appoints
2. <i>Phalaris arundinacea</i>	15	No	FACW	Problematic Hvd	rophytic Vege	tation <sup>1</sup> (Exc	olain)
3				<sup>1</sup> Indicators of hydric s	oil and wetlan	d hvdrolog	v must be
4				present, unless distur	bed or probler	matic	,
5.				Definitions of Vegetat	ion Strata:		
6.				Tree – Woody plants 3	in. (7.6 cm) or	<sup>-</sup> more in d	iameter at
7.				breast height (DBH), r	egardless of h	eight.	
8.				Sapling/shrub - Wood	y plants less t	han 3 in. Dl	BH and
9.				greater than or equal	to 3.28 ft (1 m	) tall.	
10.				- Herb – All herbaceous	(non-woody)	plants, rega	ardless of
11.				size, and woody plant	s less than 3.2	8 ft tall.	
12.				Woody vines – All woo	ody vines great	er than 3.2	8 ft in
····	90	= Total Cov	er	height.			
Woody Vine Stratum (Plot size: 30 ft )		-	C1	Hydrophytic Vegetati	on Present?	/es 🟒 No	<u></u>
1							
2				-			
2.				-			
				-			
4.		Tabal Car		-			
	0	= Total Cov	er				

SOIL

(inches)	Matrix	u	Redox	Featu	ures		
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup> Texture	Remarks
0 - 20	5Y 4/1	95	7.5YR 4/6	5	С	M Clay Loar	n
·							
					<u> </u>		
					<u> </u>		
/pe: C = C	oncentration, D = L	Depletio	on, RM = Reduced	d Matr	1x, MS =	Masked Sand Grains. <sup>2</sup> L	ocation: PL = Pore Lining, M = Matrix.
aric Soil I	ndicators:		Debaselus De				Indicators for Problematic Hydric Solis <sup>3</sup> :
Histic En	(A)) inedon (A2)		Thin Dark Su	rface	uriace (S (S9) <b>/I pp</b>	ο) (LKK K, MILKA 149B) R MIRA 149R)	2 cm Muck (A10) (LRR K, L, MLRA 149B)
Black His	stic (A3)		Loamy Muck	w Min	eral (F1)	(LRR K. L)	Coast Prairie Redox (A16) (LRR K, L, R)
_ _ Hydroge	n Sulfide (A4)		Loamy Gleye	ed Ma	trix (F2)		5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
_ Stratified	l Layers (A5)		_ ∠ Depleted Ma	atrix (F	-3)		Polyvalue Below Surface (S8) (LRR K, L)
_ Depleted	Below Dark Surfa	ice (A11	) Redox Dark	Surfac	ce (F6)		Thin Dark Surface (S9) (LRR K. L)
_ Thick Da	rk Surface (A12)		Depleted Da	ırk Sur	face (F7)		Iron-Manganese Masses (F12) (LRR K, L, R)
_ Sandy M	ucky Mineral (ST)		Redox Depre	ession	s (F8)		Piedmont Floodplain Soils (F19) (MLRA 149B)
_ Sandy G	eyed Matrix (54)						Mesic Spodic (TA6) <b>(MLRA 144A, 145, 149B)</b>
Stripped	Matrix (S6)						Red Parent Material (F21)
Dark Su	face (S7) <b>(I RR R. M</b>	ll RA 14	.9B)				Very Shallow Dark Surface (TF12)
							Other (Explain in Remarks)
ndicators o	of hydrophytic vege	etation	and wetland hyd	rology	/ must be	e present, unless disturbe	d or problematic.
estrictive L	ayer (if observed): _						
	Туре:		None	_		Hydric Soil Present?	Yes 🟒 No
	Depth (inches):						
<u> </u>							
marks:							
marks:							
marks:							
marks:							
marks:							
marks:							
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emarks:							
emarks:							
emarks:							
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marks:							
marks:							

Hydrology Photos



Vegetation Photos

#### Soil Photos



Photo of Sample Plot North



Photo of Sample Plot East



Photo of Sample Plot South



Photo of Sample Plot West



# WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Riverside	Solar		City/County: C	haumont, Jeff	erson		Sampling Date	2020-June-03
Applicant/Owner:	ieronimo				State: NY		Sampling Point:	W-NSD-07_PSS-1
Investigator(s): Nick	DeJohn, Othe	r, Ben Popham		Sec	tion, Township,	Range:		
Landform (hillslope, te	rrace, etc.):	Channel		Local relief	(concave, conv	ex, none):	Concave	Slope (%): 0 to 1
Subregion (LRR or MLF	RA): LRR	R		Lat:	44.0598174278	B Long:	-76.1071634666	Datum: WGS84
Soil Map Unit Name:	CpCovingto	on silty clay					NWI classifi	cation:
Are climatic/hydrologic	c conditions or	n the site typical	for this time of	year?	Yes 🟒 No	(If no	o, explain in Rema	arks.)
Are Vegetation,	Soil,	or Hydrology	significantly	disturbed?	Are "Norma	al Circums	tances" present?	Yes 🟒 No
Are Vegetation,	Soil,	or Hydrology	naturally pro	oblematic?	(If needed,	explain ar	y answers in Rem	narks.)

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

Hydrophytic Vegetation Present?	Yes 🟒 No		
Hydric Soil Present?	Yes 🟒 No	Is the Sampled Area within a Wetland?	Yes 🯒 No _
Wetland Hydrology Present?	Yes No	If yes, optional Wetland Site ID:	W-NSD-07
Remarks: (Explain alternative procedur	es here or in a separate rep	port)	
Covertype is PSS.			

### HYDROLOGY

Wetland Hydrology Indicators:				
Primary Indicators (minimum of or	ne is required; check all	Secondary Indicators (minimum of two required)		
<ul> <li> Surface Water (A1)</li> <li> High Water Table (A2)</li> <li> Saturation (A3)</li> <li> Water Marks (B1)</li> <li> Sediment Deposits (B2)</li> </ul>	Water- Aquati Marl D Hydro, Oxidiz	<ul> <li>Surface Soil Cracks (B6)</li> <li>Drainage Patterns (B10)</li> <li>Moss Trim Lines (B16)</li> <li>Dry-Season Water Table (C2)</li> <li>Crayfish Burrows (C8)</li> <li>Saturation Visible on Aerial Imagery (C9)</li> </ul>		
<ul> <li>Drift Deposits (B3)</li> <li>Algal Mat or Crust (B4)</li> <li>Iron Deposits (B5)</li> <li>Inundation Visible on Aerial Image Sparsely Vegetated Concave Subsection /li></ul>	<ul> <li>Stunted or Stressed Plants (D1)</li> <li>Geomorphic Position (D2)</li> <li>Shallow Aquitard (D3)</li> <li>Microtopographic Relief (D4)</li> <li>FAC-Neutral Test (D5)</li> </ul>			
Field Observations:				
Surface Water Present?	Yes 🟒 No	Depth (inches):	1	
Water Table Present?	Yes 🟒 No	Depth (inches):	5	Wetland Hydrology Present?     Yes No
Saturation Present?	Yes 🟒 No	Depth (inches):	0	
(includes capillary fringe)				
Describe Recorded Data (stream g	auge, monitoring well, a	erial photos, previous ins	pections), if	available:

VEGETATION -- Use scientific names of plants.

Sampling Point: W-NSD-07\_PSS-1

	Absolute	Dominant	Indicator	Dominance Test works	heet:		
Tree Stratum (Plot size: <u>30 ft</u> )	% Cover	Species?	Status	Number of Dominant	Species That	2	(4)
1.				Are OBL, FACW, or FAC	:	Z	(A)
2.	·			Total Number of Domi	nant Species	2	(B)
3.	·			Across All Strata:			(8)
4.	·			Percent of Dominant S	pecies That	100	(A/B)
5.	·			Are OBL, FACW, or FAC	<u>.</u>		
6.	·			Prevalence Index work	sheet:		_
7.	·			Iotal % Cover	<u>of:</u>	Multiply	<u>By:</u>
	0	= Total Cov	rer		0	x I =	0
Sapling/Shrub Stratum (Plot size: <u>15 ft</u> )		-		FACW species	/5	x 2 =	150
1. Salix bebbiana	70	Yes	FACW	FAC species	0	x 3 =	0
2.	- <u> </u>			FACU species	0	x 4 =	0
3.				UPL species	0	x 5 =	0
4.				Column Totals	75	(A)	150 (B)
5.	·			Prevalence Ir	ndex = B/A =	2	
6.	·			Hydrophytic Vegetation	n Indicators:		
7.	<u> </u>			1- Rapid Test for I	Hydrophytic V	egetation/	
···	70	= Total Cov	er	2 - Dominance Te	st is >50%		
Herb Stratum (Plot size: 5 ft )		-		3 - Prevalence Inc	dex is $\leq 3.0^1$		
1. Carex annectens	5	Yes	FACW	4 - Morphological	Adaptations	(Provide	supporting
2				data in Remarks or on	a separate sh	ieet)	
3	- <u> </u>			Problematic Hydr	ophytic Vege	tation <sup>1</sup> (Ex	plain)
Δ				<sup>1</sup> Indicators of hydric so	oil and wetlan	d hydrolog	gy must be
т. 				present, unless disturt	ed or probler	natic	
				Tree Weedy plants 2	in (7.6 cm) or	moroin	diamotor at
7				hreast height (DBH) re	ardless of h	eight	liameter at
8	·			Sanling/shruh - Woody	/ nlants less tl	han 3 in Γ	)BH and
9	·			greater than or equal t	o 3.28 ft (1 m	) tall.	birana
10	·	<u> </u>		Herb – All herbaceous	(non-woody)	, plants, reg	ardless of
11	·	<u> </u>		size, and woody plants	less than 3.2	8 ft tall.	•
12	·	<u> </u>		Woody vines – All woo	dy vines great	ter than 3.	28 ft in
12	5	= Total Cov	or	height.			
Woody Vine Stratum (Plot size: 30 ft )				Hydrophytic Vegetatic	n Present?	/es 🟒 N	lo
1							
··		<u> </u>					
2		<u> </u>					
	<u> </u>						
*·	0	= Total Cov	er				
		-					
Remarks: (Include photo numbers here or on a separa	te sheet.)						

SOIL

iches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup> Te	exture	Remarks
) - 20	5Y 4/1	90	7.5YR 4/6	10	C	M Cla	y Loam	
		·		·				
		: <u> </u>						
		·						
				. —				
		·		·				
				: <u> </u>				
e: C = C ric Soil	Concentration, D = I	Deplet	ion, RM = Reduce	d Mat	rix, MS =	Masked Sand Grain	s. <sup>2</sup> Location: PL Indicator	. = Pore Lining, M = Matrix. s for Problematic Hydric Soils <sup>3</sup> :
listoso listic Ep Black Hi lydroge	l (A1) pipedon (A2) istic (A3) en Sulfide (A4)		Polyvalue B Thin Dark S Loamy Muc Loamy Gley	elow S urface ky Mir ed Ma	Surface (S e (S9) <b>(LRF</b> neral (F1) ntrix (F2)	58) (LRR R, MLRA 149 R R, MLRA 149B) (LRR K, L)	2 <b>B)</b> 2 cm Coast 5 cm Dark	Muck (A10) <b>(LRR K, L, MLRA 149B)</b> : Prairie Redox (A16) <b>(LRR K, L, R)</b> Mucky Peat or Peat (S3) <b>(LRR K, L, R)</b> Surface (S7) <b>(LRR K, L)</b>
Stratifie Deplete	d Layers (A5) d Below Dark Surfa ark Surface (A12)	ice (A1	Depleted M 1) Redox Dark	atrix ( Surfa	F3) ce (F6) rfaco (E7)	)	Polyv Thin	alue Below Surface (S8) <b>(LRR K, L)</b> Dark Surface (S9) <b>(LRR K, L)</b>
andy N	Ark Surface (AT2) Aucky Mineral (S1)		Redox Depr	essior	nace (F7) ns (F8)	)	lron-l Piedr	Manganese Masses (F12) <b>(LRR K, L, R)</b> nont Floodplain Soils (F19) <b>(MLRA 149B)</b>
Sandy G Sandy F	edox (S5)						Mesic Red F	Spodic (TA6) <b>(MLRA 144A, 145, 149B)</b> Parent Material (F21)
	d Matrix (S6)						Very	Shallow Dark Surface (TF12)
Strippe Dark Su	rface (S7) <b>(LRR R, N</b>	ILRA 14	49B)				0 0 0 0 0	(Explain in Remarks)
otrippe Dark Su cators	of hydrophytic veg	ILRA 1	<b>49B)</b> n and wetland hyd	lrolog	y must b	e present, unless di	sturbed or proble	ematic.
itripped Dark Su <u>cators</u> rictive l	of hydrophytic veg Layer (if observed): Type:	ILRA 14	and wetland hyd	irolog	y must b	e present, unless di	sturbed or proble	ematic.
Stripped Dark Su <u>cators</u> r <b>ictive</b> l	rface (S7) <b>(LRR R, N</b> of hydrophytic veg Layer (if observed): Type: Depth (inches):	ILRA 1	<b>49B)</b> a and wetland hyd None	lrolog	y must b	e present, unless di: Hydric Soil Presen	sturbed or proble	Yes No
Stripped Dark Su icators rictive I arks:	rface (S7) <b>(LRR R, N</b> of hydrophytic veg Layer (if observed): Type: Depth (inches):	ILRA 14	<b>49B)</b> a and wetland hyd None	irolog	y must b	e present, unless di: Hydric Soil Presen	outo	Yes No
Stripped Dark Su cators rictive I arks:	rface (S7) <b>(LRR R, N</b> of hydrophytic veg Layer (if observed): Type: Depth (inches):	ILRA 14	<b>49B)</b> a and wetland hyd None	drolog	y must b	e present, unless di Hydric Soil Presen	tribed or proble	Yes No
ark Su cators rictive l arks:	rface (S7) <b>(LRR R, N</b> of hydrophytic veg Layer (if observed): Type: Depth (inches):	ILRA 14	<b>49B)</b> n and wetland hyd None	drolog	y must b	e present, unless di: Hydric Soil Presen	o the	Yes No
tripped ark Su cators rictive l	rface (S7) <b>(LRR R, N</b> of hydrophytic veg Layer (if observed): Type: Depth (inches):	ILRA 14	<b>49B)</b> n and wetland hyd None	drolog	y must b	e present, unless di	t?	ematic. Yes _∠_ No
tripped park Su cators rictive I arks:	rface (S7) <b>(LRR R, N</b> of hydrophytic veg Layer (if observed): Type: Depth (inches):	ILRA 14	<b>49B)</b> n and wetland hyd None	drolog 	y must b	e present, unless di	sturbed or proble	Yes No
itripped Dark Su cators rictive l	rface (S7) <b>(LRR R, N</b> of hydrophytic veg Layer (if observed): Type: Depth (inches):	ILRA 1	<b>49B)</b> None	drolog	y must b	e present, unless di	outo	Yes <u>/</u> No <u> </u>
itripped Dark Su cators rictive l arks:	rface (S7) <b>(LRR R, N</b> of hydrophytic veg Layer (if observed): Type: Depth (inches):	ILRA 14	<b>49B)</b> None	- -	y must b	e present, unless di	tr	Yes No
itripped Dark Su cators rictive l	rface (S7) <b>(LRR R, N</b> of hydrophytic veg Layer (if observed): Type: Depth (inches):	etatior	<b>49B)</b> None	- 	y must b	e present, unless di	turbed or proble	Yes No
Stripped Dark Su cators rictive l arks:	rface (S7) <b>(LRR R, N</b> of hydrophytic veg Layer (if observed): Type: Depth (inches):	etatior	<b>49B)</b> n and wetland hyd None	-	y must b	e present, unless di	t?	Yes _/_ No
Stripped Dark Su cators rictive l arks:	rface (S7) <b>(LRR R, N</b> of hydrophytic veg Layer (if observed): Type: Depth (inches):	etatior	49B) n and wetland hyd None	- 	y must b	e present, unless di	turbed or proble	Yes No
ark Su cators rictive l	rface (S7) <b>(LRR R, N</b> of hydrophytic veg Layer (if observed): Type: Depth (inches):	etatior	<b>49B)</b> None	drolog	y must b	e present, unless di	turbed or proble	Yes No
Cators rictive l arks:	rface (S7) <b>(LRR R, N</b> of hydrophytic veg Layer (if observed): Type: 	etatior	49B) n and wetland hyd None	- 	y must b	e present, unless di	turbed or proble	Yes No

Hydrology Photos




### Soil Photos



Photo of Sample Plot North Photo of Sample Plot East



Photo of Sample Plot South

Photo of Sample Plot West



# WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Riverside Solar	City/County: Chaumont, Jefferson	Sampling Date: 2020-June-03
Applicant/Owner: Geronimo	State: NY	Sampling Point: W-NSD-07_UPL-1
Investigator(s): Nick DeJohn, Other, Ben Po	ham Section, Township, Range	e:
Landform (hillslope, terrace, etc.): Flat	Local relief (concave, convex, no	me): Undulating Slope (%): 1 to 3
Subregion (LRR or MLRA): LRR R	Lat: 44.0600291966 L	ong: -76.1071814877 Datum: WGS84
Soil Map Unit Name:		NWI classification:
Are climatic/hydrologic conditions on the site	ypical for this time of year? Yes _✔_ No	(lf no, explain in Remarks.)
Are Vegetation, Soil, or Hydro	processing significantly disturbed? Are "Normal Circo or anturally problematic? (If peeded explained)	umstances" present? Yes 🖌 No
Are Vegetation, Soil, or Hydro	ogy naturally problematic? (If needed, expla	in any answers in Remarks.)

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

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

### HYDROLOGY

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

VEGETATION -- Use scientific names of plants.

Sampling Point: W-NSD-07\_UPL-1

Tree Stratum (Plot size: <u>30 ft</u> )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test works Number of Dominant	s <b>heet:</b> Species That	1	(4)
1.				Are OBL, FACW, or FAC	2:	ı	(A)
2.				Total Number of Dom Across All Strata:	inant Species	2	(B)
3				Percent of Dominant S	Species That	50	(A/B)
5.				Are OBL, FACW, or FAC	2:		
6.				<ul> <li>Prevalence Index worl</li> </ul>	ksheet:		
7		·		- <u>Total % Cove</u>	<u>r of:</u>	<u>Multiply</u>	<u>By:</u>
		= Total Cov	or	- OBL species	0	x 1 =	0
Sapling/Shrub Stratum (Diat size: 15 ft )	0	- 10001 000		FACW species	30	x 2 =	60
				FAC species	0	x 3 =	0
I				- FACU species	50	x 4 =	200
2.		<u> </u>		- UPL species	20	x 5 =	100
3				- Column Totals	100	(A)	360 (B)
4				- Prevalence I	ndex = B/A =	3.6	
5.				Hydrophytic Vegetatio	n Indicators:		
o				1- Rapid Test for	Hydrophytic V	/egetatior	
7				2 - Dominance Te	est is > 50%		
	0	= lotal Cov	er	3 - Prevalence In	dex is $\leq 3.0^1$		
<u>Herb Stratum</u> (Plot size: <u>5 ft</u> )				4 - Morphologica	Adaptations	<sup>1</sup> (Provide	supporting
1. <u>Poa pratensis</u>	40	Yes	FACU	- data in Remarks or on	a separate sh	neet)	
2. <i>Phalaris arundinacea</i>	30	Yes	FACW	Problematic Hyd	rophytic Vege	tation <sup>1</sup> (E>	(plain)
3. Asclepias syriaca	10	No	UPL	Indicators of hydric s	oil and wetlan	d hydrolo	gy must be
4. Galium mollugo	10	No	FACU	present, unless distur	bed or problei	matic	
5. <i>Daucus carota</i>	10	No	UPL	Definitions of Vegetati	on Strata:		
6.				Tree – Woody plants 3	in. (7.6 cm) oi	r more in	diameter at
7.				breast height (DBH), r	egardless of h	eight.	
8.				Sapling/shrub - Wood	y plants less t	han 3 in. [	OBH and
9.				greater than or equal	to 3.28 ft (1 m	ı) tall.	
10				Herb – All herbaceous	(non-woody)	plants, re	gardless of
11				size, and woody plants	s less than 3.2	8 ft tall.	
12				Woody vines - All woo	dy vines great	ter than 3	.28 ft in
12		Tabal Car		height.			
	100	= lotal Cov	er	Hydronhytic Vegetati	on Present?		
<u>Woody Vine Stratum</u> (Plot size: <u>30 ft</u> )				riyuropriyue vegetati	Sinnesent:	103 1	··· _·
۱				-			
2.				-			
3				-			
4				_			
	0	= Total Cov	er				
Remarks: (Include photo numbers here or on a se	parate sheet.)						

SOIL

Sampling Point: W-NSD-07\_UPL-1

,	Color (moist)	%	Color (moist)	% T	ype1	Loc <sup>2</sup> Tex	ture	Remarks
)-18	10YR 3/2	100		·		Silty Cla	y Loam	
		·		·				
				·				
be: C = C	oncentration, D = [	Depletio	n, RM = Reduced	Matrix,	MS = M	asked Sand Grains. <sup>2</sup> L	ocation: PL = Pore Linin	g, M = Matrix.
ric Soil I	ndicators:						Indicators for Problem	natic Hydric Soils <sup>3</sup> :
Black Hi Hydroge Stratified Depleted Thick Da Sandy M Sandy G Sandy R Strippec Dark Su	stic (A3) in Sulfide (A4) d Layers (A5) d Below Dark Surfa rk Surface (A12) lucky Mineral (S1) leyed Matrix (S4) edox (S5) l Matrix (S6) rface (S7) <b>(LRR R, M</b>	ce (A11) ILRA 149	Loamy Mucky Loamy Gleyed Depleted Mar Redox Dark S Depleted Dar Redox Depre	/ Minera d Matrix crix (F3) urface ( k Surfac ssions (	F6) F6) F8) F8)	RR K, L)	Coast Praine Redd     5 cm Mucky Peat (     Dark Surface (S7) (     Polyvalue Below S     Thin Dark Surface     Iron-Manganese N     Piedmont Floodpl     Mesic Spodic (TA6     Red Parent Materi     Very Shallow Dark     Other (Explain in F	ox (A16) (LRR K, L, K) or Peat (S3) (LRR K, L, R) (LRR K, L) urface (S8) (LRR K, L) (S9) (LRR K, L) Masses (F12) (LRR K, L, R) ain Soils (F19) (MLRA 149B) ) (MLRA 144A, 145, 149B) ial (F21) : Surface (TF12) Remarks)
dicators	of hydrophytic vege	etation a	and wetland hydr	ology m	nust be p	oresent, unless disturbe	ed or problematic.	
strictive I	ayer (if observed):							
	Type		None		ŀ	Hydric Soil Present?	Yes_	No⁄_
	Depth (inches):						· · · · ·	

## Vegetation Photos



Soil Photos

Photo of Sample Plot North



Photo of Sample Plot East Photo of Sample Plot South



Photo of Sample Plot West



# WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Riverside Solar	City/County: Chaumont, Jefferson	Sampling Date: 2020-June-03					
Applicant/Owner: Geronimo	State: NY	Sampling Point: W-NSD-07_UPL-2					
Investigator(s): Nick DeJohn, Other, Ben Pophar	n Section, Township, Range:						
Landform (hillslope, terrace, etc.): Flat	Local relief (concave, convex, none):	Undulating Slope (%): 0 to 1					
Subregion (LRR or MLRA): LRR R	Lat: 44.0598574095 Long:	-76.1071445235 Datum: WGS84					
Soil Map Unit Name: Cp-Covington silty clay		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 Circums	tances" present? Yes 🟒 No					
Are Vegetation, Soil, or Hydrology	naturally problematic? (If needed, explain ar	y answers in Remarks.)					

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

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

### HYDROLOGY

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

VEGETATION -- Use scientific names of plants.

Sampling Point: W-NSD-07\_UPL-2

Tree Stratum (Plot size: <u>30 ft</u> )	Absolute	Dominant	Indicator	Dominance Test works	heet:		
1	% Cover	species:	Status	Are OBL FACW or FAC	·	1	(A)
1	·	<u> </u>		Total Number of Domi	Total Number of Dominant Species		
2.	·			Across All Strata:		3	(B)
3.	·			Percent of Dominant S	pecies That	22.2	( ( ( D )
4	·			- Are OBL, FACW, or FAC: 33.3		(A/B)	
5	·			Prevalence Index work	sheet:		
o	·			- <u>Total % Cover</u>	of:	Multiply	<u>By:</u>
7		Tabal Car		- OBL species	0	x 1 =	0
Carling (Church Churchang (Dist sizes 45.6)	0	= lotal Cov	er	FACW species	20	x 2 =	40
Sapling/Shrub Stratum (Plot size:15 ft)				FAC species	5	x 3 =	15
1	·			FACU species	67	x 4 =	268
2.				UPL species	0	x 5 =	0
3				- Column Totals	92	(A)	323 (B)
4.				Prevalence li	ndex = B/A =	3.5	
5	·			Hydrophytic Vegetatio	n Indicators:		
6	·			1- Rapid Test for	Hydrophytic V	egetation	
7	<u> </u>			2 - Dominance Te	st is > 50%	0	
	0	= Total Cov	er	3 - Prevalence Inc	dex is $\leq 3.0^1$		
<u>Herb Stratum</u> (Plot size: <u>5 ft</u> )				4 - Morphologica	Adaptations	(Provide	supporting
1. Poa pratensis	30	Yes	FACU	data in Remarks or on	a separate sh	neet)	
2. <u>Galium mollugo</u>	25	Yes	FACU	Problematic Hydi	ophytic Vege	tation <sup>1</sup> (Ex	plain)
3. <i>Phalaris arundinacea</i>	20	Yes	FACW	<sup>1</sup> Indicators of hydric so	il and wetlan	d hydrolog	gy must be
4. <u>Vicia americana</u>	12	No	FACU	present, unless disturb	ed or probler	matic	
5. <i>Fallopia scandens</i>	5	No	FAC	Definitions of Vegetation	on Strata:		
6	<u> </u>			Tree – Woody plants 3	in. (7.6 cm) or	r more in o	diameter at
7				breast height (DBH), re	gardless of h	eight.	
8				Sapling/shrub - Woody	/ plants less t	han 3 in. D	BH and
9				greater than or equal t	o 3.28 ft (1 m	) tall.	
10				Herb – All herbaceous	(non-woody)	plants, reg	gardless of
11				size, and woody plants	less than 3.2	8 TT TAII.	20.61
12				- height	dy vines great	ter than 3.	28 11 10
	92	= Total Cov	er				
<u>Woody Vine Stratum</u> (Plot size: <u>30 ft</u> )				Hydrophytic Vegetatic	on Present?	res N	10 _
1	<u> </u>			_			
2	<u> </u>			_			
3	<u> </u>			_			
4				_			
	0	= Total Cov	er				
Remarks: (Include photo numbers here or on a separa	te sheet.)						

SOIL

## Sampling Point: W-NSD-07\_UPL-2

D-18       10YR 3/1       100
pe: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. <sup>2</sup> Location: PL = Pore Lining, M = Matrix.         pe: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. <sup>2</sup> Location: PL = Pore Lining, M = Matrix.         Indicators:       Indicators for Problematic Hydric Soils?         Histosol (A1)
De: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. <sup>2</sup> Location: PL = Pore Lining, M = Matrix.         Indicators:       Indicators for Problematic Hydric Soils?         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, MLRA 149B)         Histosol (A1)       Coast Prairie Redox (A16) (LRR K, L, R)         Histosol (A2)       Thin Dark Surface (S9) (LR R, MLRA 149B)         Black Histic (A3)       Loamy Mucky Mineral (F1) (LRR K, L)         Hydrogen Sulfide (A4)       Loamy Gleyed Matrix (F2)         Stratified Layers (A5)       Depleted Dark Surface (F6)         Thin Dark Surface (A11)       Redox Dark Surface (F7)         Sandy Mucky Mineral (S1)       Redox Depressions (F8)         Sandy Gleyed Matrix (S4)       Red Parent Material (F21)         Sandy Gleyed Matrix (S6)       Wesic Spodic (TA6) (MLRA 1445, 149B)         Stripped Matrix (S6)       Wesic Spodic (TA6) (MLRA 1445, 149B)         Lictors of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.         Tritick Layer (If Observed):       None         Type:       None
Derived Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains.       ?Location: PL = Pore Lining, M = Matrix.         Indicators:       Indicators for Problematic Hydric Soils*:         Histosol (A1)      Polyvalue Below Surface (S8) (LRR R, MLRA 149B)         Histic Spiledon (A2)      Thin Dark Surface (S9) (LRR R, MLRA 149B)         Black Histic (A3)      Loamy Mucky Mineral (F1) (LRR K, L)         Hydrogen Sulfide (A4)      Depleted Matrix (F2)         Depleted Below Dark Surface (A11)       Redox Dark Surface (F6)         Thick Dark Surface (S1)      Redox Depressions (F8)         Sandy Mucky Mineral (S1)      Redox Depressions (F8)         Stripped Matrix (S6)
De: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains.       ?Location: PL = Pore Lining, M = Matrix.         Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histic Spipedon (A2)       Thin Dark Surface (S8) (LRR R, MLRA 149B)         Black Histic (A3)       Loamy Mucky Mineral (F1) (LRR K, L)         Hydrogen Sulfide (A4)       Loamy Gleyed Matrix (F2)         Depleted Below Dark Surface (A11)       Redox Dark Surface (F6)         Thic Dark Surface (F3)       Depleted Dark Surface (F7)         Thic Dark Surface (S5)       Depleted Dark Surface (F7)         Sandy Mucky Mineral (S1)       Redox Depressions (F8)         Sandy Gleyed Matrix (S6)       Piedmont Floodplain Soils (F12) (LRR K, L, R)         Dark Surface (S7) (LRR R, MLRA 149B)       Red Parent Material (F21)         Stripped Matrix (S6)       Red Parent Material (F21)         Dark Surface (S7) (LRR R, MLRA 149B)       Very Shallow Dark Surface (TF12)         Dark Surface (S7) (LRR R, MLRA 149B)       Very Shallow Dark Surface (TF12)         Dark Surface (S7) (LRR R, MLRA 149B)       Very Shallow Dark Surface (TF12)         Dark Surface (S7) (LRR R, MLRA 149B)       Hydric Soil Present?         Yes
be: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. <sup>2</sup> Location: PL = Pore Lining, M = Matrix.         iric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, MLRA 149B)       2 cm Muck (A10) (LRR K, L, MLRA 149B)         Histic Epipedon (A2)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       Coast Prairie Redox (A16) (LRR K, L, R)         Black Histic (A3)       Loamy Mucky Mineral (F1) (LRR K, L)       5 cm Mucky Peat or Peat (S3) (LRR K, L, R)         Hydrogen Sulfide (A4)       Loamy Gleyed Matrix (F2)       Dark Surface (S7) (LRR K, L)         Stratified Layers (A5)       Depleted Matrix (F3)       Dark Surface (S9) (LRR K, L)         Depleted Below Dark Surface (A11)       Redox Dark Surface (F7)       Thin Dark Surface (S9) (LRR K, L)         Sandy Mucky Mineral (S1)       Redox Depressions (F8)       Piedmont Floodplain Soils (F19) (MLRA 149B)         Sandy Gleyed Matrix (S6)       Mesic Spodic (TA6) (MLRA 144A, 145, 149B)       Red Parent Material (F21)         Dark Surface (S7) (LRR R, MLRA 149B)       Very Shallow Dark Surface (TF12)       Other (Explain in Remarks)         icators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.       Trictive Layer (if observed):         Type:       None       Hydric Soil Present?       Yes No
be: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. <sup>2</sup> Location: PL = Pore Lining, M = Matrix.   ric Soil Indicators: Indicators for Problematic Hydric Soils <sup>2</sup> :   Histosol (A1)Polyvalue Below Surface (S8) (LRR R, MLRA 149B)   Histic Epipedon (A2)
Iric Soil Indicators:       Indicators for Problematic Hydric Soils?:         Histosol (A1)      Polyvalue Below Surface (S8) (LRR R, MLRA 149B)         Histic Epipedon (A2)      Thin Dark Surface (S9) (LRR R, MLRA 149B)         Black Histic (A3)      Loamy Mucky Mineral (F1) (LRR K, L)         Hydrogen Sulfide (A4)      Loamy Gleyed Matrix (F2)         Stratified Layers (A5)      Depleted Matrix (F3)         Depleted Below Dark Surface (A11)       Redox Dark Surface (F6)         Thic Dark Surface (A12)      Depleted Dark Surface (F7)         Sandy Mucky Mineral (S1)      Redox Depressions (F8)         Sandy Redox (S5)      Redox Depressions (F8)         Stripped Matrix (S6)
Histosol (A1)Polyvalue Below Surface (S8) (LRR R, MLRA 149B) Histic Epipedon (A2)Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3)Loamy Mucky Mineral (F1) (LRR K, L) Hydrogen Sulfide (A4)Loamy Gleyed Matrix (F2) Stratified Layers (A5)Depleted Matrix (F3) Depleted Below Dark Surface (A11)Redox Dark Surface (F6) Thick Dark Surface (A12)Depleted Dark Surface (F7) Sandy Mucky Mineral (S1)Redox Depressions (F8) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) icators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Type:None Pertor find been served): Type:None Type:None Depth (inches):
Depth (Incres).



Soil Photos

Photo of Sample Plot North



Photo of Sample Plot East



Photo of Sample Plot South



Photo of Sample Plot West



# WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Riverside	e Solar		City/County: Cl	haumont,	Jeffei	son		Sampling Date	: 2020-J	une-04
Applicant/Owner:	ieronimo					State: NY		Sampling Point:	W-NSD-	08_PEM-1
Investigator(s): Nick DeJohn, Other, Ben Popham Section, Township, Range:										
Landform (hillslope, te	rrace, etc.):	Depression		Local r	elief (	concave, convex	, none):	Concave	S	lope (%): 0 to 1
Subregion (LRR or MLF	RA): LRR F	R			Lat:	44.0610108851	Long:	-76.1028094032	Da	atum: WGS84
Soil Map Unit Name:	VeBVergen	nes silty clay loa	m, 3 to 8 percer	nt slopes				NWI classif	ication:	
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	Circums	tances" present?	Yes	_ 🖌 No
Are Vegetation,	Soil,	or Hydrology	naturally pro	oblematic?	?	(If needed, ex	plain ar	ny answers in Ren	narks.)	

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

Hydrophytic Vegetation Present?	Yes 🟒 No		
Hydric Soil Present?	Yes 🟒 No	Is the Sampled Area within a Wetland?	Yes 🯒 No _
Wetland Hydrology Present?	Yes 🟒 No	If yes, optional Wetland Site ID:	W-NSD-08
Remarks: (Explain alternative procedures	s here or in a separate repo	rt)	
Covertype is PEM.			

### HYDROLOGY

Wetland Hydrology Indicators:						
Primary Indicators (minimum of o	ne is required; check all t	<u>hat apply)</u>		Secondary Indicators (minimum of two required)		
<ul> <li> Surface Water (A1)</li> <li> High Water Table (A2)</li> <li> Saturation (A3)</li> <li> Water Marks (B1)</li> <li> Sediment Deposits (B2)</li> </ul>	Water- Aquatio Marl D Hydrog Oxidize	Stained Leaves (B9) c Fauna (B13) eposits (B15) gen Sulfide Odor (C1) ed Rhizospheres on Livin	g Roots (C3)	<ul> <li>Surface Soil Cracks (B6)</li> <li>Drainage Patterns (B10)</li> <li>Moss Trim Lines (B16)</li> <li>Dry-Season Water Table (C2)</li> <li>Crayfish Burrows (C8)</li> <li>Saturation Visible on Aerial Imageny (C0)</li> </ul>		
<ul> <li>Drift Deposits (B3)</li> <li>Algal Mat or Crust (B4)</li> <li>Iron Deposits (B5)</li> <li>Inundation Visible on Aerial Im</li> <li>Sparsely Vegetated Concave Summer Summ</li></ul>	Presen Recent Thin M agery (B7) Other ( urface (B8)	ce of Reduced Iron (C4) Iron Reduction in Tilled uck Surface (C7) Explain in Remarks)	Soils (C6)	<ul> <li>Stunted or Stressed Plants (D1)</li> <li>Geomorphic Position (D2)</li> <li>Shallow Aquitard (D3)</li> <li>Microtopographic Relief (D4)</li> <li>FAC-Neutral Test (D5)</li> </ul>		
Field Observations:						
Surface Water Present?	Yes No 🟒	Depth (inches):				
Water Table Present?	Yes No 🟒	Depth (inches):		Wetland Hydrology Present? Yes No		
Saturation Present?	Yes 🟒 No	Depth (inches):	0			
(includes capillary fringe)						
Describe Recorded Data (stream g	auge, monitoring well, a	erial photos, previous in:	spections), if	available:		

VEGETATION -- Use scientific names of plants.

Sampling Point: W-NSD-08\_PEM-1

ree stratum (Plot size: <u>30 ft</u> )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test works	heet: Species That		
1		opeciesi	010100	Are OBL, FACW, or FAC		2	(A)
1				Total Number of Domi	nant Species		
2.				Across All Strata:		2	(B)
3				Percent of Dominant S	pecies That	100	(4 (D)
4				Are OBL, FACW, or FAC	:	100	(A/B)
5	·			Prevalence Index work	sheet:		
o				- <u>Total % Cover</u>	of:	<u>Multiply</u>	By:
7				- OBL species	30	x 1 =	30
	0	= lotal Cov	er	FACW species	65	x 2 =	130
Sapling/Shrub Stratum (Plot size: <u>15 ft</u> )				FAC species	0	x 3 =	0
1				FACU species	0	x 4 =	0
2				UPL species	0	x 5 =	0
3				- Column Totals	95	(A)	160 (B)
4				Prevalence I	ndex = B/A =	1.7	
5				Hydrophytic Vegetatio	n Indicators:		
6				/ 1- Rapid Test for	Hvdrophytic V	egetation	
7				- 2 - Dominance Te	st is >50%	egetation	
	0	= Total Cov	er	. 3 - Prevalence Inc	dex is $< 3.0^{1}$		
<u>Herb Stratum</u> (Plot size: <u>5 ft</u> )				4 - Morphologica	Adaptations	Provide	sunnorting
1. <i>Phalaris arundinacea</i>	65	Yes	FACW	- data in Remarks or on	a separate sh	(Frovide	Supporting
2. Typha angustifolia	30	Yes	OBL	Problematic Hvd	rophytic Vege	tation <sup>1</sup> (Ex	(plain)
3.				<sup>1</sup> Indicators of hydric so	oil and wetlan	d hydrolo	gy must be
4.				present, unless distur	ped or proble	matic	8)
5.				Definitions of Vegetati	on Strata:		
6.				Tree – Woody plants 3	in. (7.6 cm) or	r more in o	diameter at
7.				breast height (DBH), re	gardless of h	eight.	
8.				Sapling/shrub - Wood	y plants less t	han 3 in. [	OBH and
9.				greater than or equal	:o 3.28 ft (1 m	) tall.	
10				Herb – All herbaceous	(non-woody)	plants, reg	gardless of
11				size, and woody plants	less than 3.2	8 ft tall.	-
12				Woody vines – All woo	dy vines great	ter than 3.	.28 ft in
12		- Total Cov	or	height.			
Weedy Vine Stratum (Plat size) 20 ft		- 10tal COV	ei	Hydrophytic Vegetatio	on Present?	res 🖌 N	10
<u>woody vine stratum</u> (Plot size. <u>30 it</u> )							
1	·			-			
2.				-			
3				-			
Δ				-			
·	∧	= Total Cov	er				

SOIL

ches) Color (moist)	%	Color (moist)	% Tvr	pe <sup>1</sup> Loc <sup>2</sup>	Texture	Remarks
10YR 4/1	95	7.5YR 4/6	5 (	C M	Clay Loar	m
e: C = Concentration, D =	= Depleti	ion, RM = Reduced	d Matrix, N	MS = Masked	Sand Grains. <sup>2</sup> L	ocation: PL = Pore Lining, M = Matrix.
ric Soil Indicators:		Polyvalue Be	alow Surfa	0CA (S8) <b>(I PP</b>		Indicators for Problematic Hydric Soils <sup>3</sup> :
Histic Epipedon (A2)		Thin Dark Su	urface (S9)	(LRR R, MLR	A 149B)	2 cm Muck (A10) (LRR K, L, MLRA 149B)
3lack Histic (A3)		Loamy Muck	ky Mineral	l (F1) <b>(LRR K,</b>	L)	5 cm Mucky Peat or Peat (S3) (I RR K. I. R)
Hydrogen Sulfide (A4)		Loamy Gleye	ed Matrix	(F2)		Dark Surface (S7) (LRR K, L)
Stratified Layers (A5)	c (14	Depleted Ma	atrix (F3)			Polyvalue Below Surface (S8) (LRR K, L)
Depleted Below Dark Sur	Tace (AT	I) Redox Dark	Surface (F	·b) o (E7)		Thin Dark Surface (S9) (LRR K, L)
Sandy Mucky Mineral (S1	)	Depleted Da	essions (F)	e (r7) 8)		Iron-Manganese Masses (F12) (LRR K, L, R)
Sandy Gleved Matrix (S/	,		63310113 (11	0)		Piedmont Floodplain Soils (F19) (MLRA 149B)
Sandy Redox (S5)						Mesic Spodic (TA6) <b>(MLRA 144A, 145, 149B)</b>
Starius ad Mataix (CC)						Red Parent Material (F21)
Strinned Matrix (S6)						Very Shallow Dark Surface (TF12)
Dark Surface (S7) <b>(LRR R.</b>	MLRA 14	49B)				()ther (Explain in Remarks)
Stripped Matrix (S6) Dark Surface (S7) <b>(LRR R,</b>	MLRA 14	49B)	lealage mu	ist be prese	t uplace disturbe	
Stripped Matrix (S6) Dark Surface (S7) <b>(LRR R,</b> icators of hydrophytic ve rictive Layer (if observed	MLRA 14	<b>49B)</b> a and wetland hyd	lrology mu	ust be preser	nt, unless disturbe	ed or problematic.
icators of hydrophytic ve trictive Layer (if observed Type:	MLRA 14 egetation I):	<b>49B)</b> and wetland hyd None	lrology mu	ust be preser	nt, unless disturbe Soil Present?	ed or problematic.
Tripped Matrix (S6) Dark Surface (S7) <b>(LRR R,</b> icators of hydrophytic ve rictive Layer (if observed Type: Depth (inches):	MLRA 14 egetation I):	<b>49B)</b> and wetland hyd None	lrology mu _	ust be preser	nt, unless disturbe Soil Present?	ed or problematic.
Cators of hydrophytic ve icators of hydrophytic ve rictive Layer (if observed Type: Depth (inches): arks:	MLRA 14 egetation I):	<b>49B)</b> a and wetland hyd None	Irology mu -	ust be preser	nt, unless disturbe Soil Present?	Yes _/_ No
Carlopped Matrix (S6) Dark Surface (S7) (LRR R, icators of hydrophytic ve rictive Layer (if observec Type: Depth (inches): arks:	MLRA 14 egetation I):	<b>49B)</b> a and wetland hyd None	Irology mu -	ust be preser	nt, unless disturbe Soil Present?	Yes _/_ No
Cators of hydrophytic ve rictive Layer (if observed Type: Depth (inches): arks:	MLRA 14 egetation I):	<b>49B)</b> a and wetland hyd None	lrology mu -	ust be preser	nt, unless disturbe Soil Present?	Yes _∠_ No
Cators of hydrophytic ve rictive Layer (if observed Type: Depth (inches): arks:	MLRA 14	<b>49B)</b> a and wetland hyd None	Irology mu -	ust be preser	nt, unless disturbe Soil Present?	Yes _∠_ No
Dark Surface (S7) <b>(LRR R,</b> icators of hydrophytic ve rictive Layer (if observed Type: Depth (inches): arks:	MLRA 14	<b>49B)</b> a and wetland hyd None	lrology mu -	ust be preser	nt, unless disturbe Soil Present?	Yes <u>/</u> No
Cators of hydrophytic ve cators of hydrophytic ve rictive Layer (if observed Type: Depth (inches): arks:	MLRA 14 egetation ):	<b>49B)</b> and wetland hyd None	lrology mu -	ust be preser	nt, unless disturbe Soil Present?	Yes _ No
oark Surface (S7) <b>(LRR R,</b> cators of hydrophytic ve rictive Layer (if observec Type: Depth (inches): arks:	MLRA 14 regetation I):	<b>49B)</b> n and wetland hyd None	Irology mu -	UST be preser	nt, unless disturbe Soil Present?	Yes _/_ No
oark Surface (S7) <b>(LRR R,</b> cators of hydrophytic ve rictive Layer (if observec Type: Depth (inches): arks:	MLRA 14 regetation i):	<b>49B)</b> n and wetland hyd None	lrology mu -	ust be preser	nt, unless disturbe Soil Present?	Yes _/_ No
Dark Surface (S7) <b>(LRR R,</b> icators of hydrophytic ve rictive Layer (if observed Type: Depth (inches): arks:	MLRA 14 egetation i):	<b>49B)</b> n and wetland hyd None	Irology mu - -	Hydric	nt, unless disturbe	Yes _∠_ No
Dark Surface (S7) (LRR R, icators of hydrophytic ve rictive Layer (if observed Type: Depth (inches): harks:	MLRA 14 egetation i):	<b>49B)</b> n and wetland hyd None	Irology mu -	Hydric	nt, unless disturbe	ed or problematic. Yes _∠_ No
Dark Surface (S7) (LRR R, icators of hydrophytic ve rictive Layer (if observed Type: Depth (inches): iarks:	MLRA 14 egetation ):	<b>49B)</b> n and wetland hyd None	Irology mu	ust be preser	nt, unless disturbe	ed or problematic. Yes _∠_ No
Dark Surface (S7) (LRR R, icators of hydrophytic ve rictive Layer (if observed Type: Depth (inches): narks:	MLRA 14 egetation i):	<b>49B)</b> n and wetland hyd None	lrology mu	ust be preser	nt, unless disturbe	Yes _∠_ No
Stripped Matrix (56) Dark Surface (S7) (LRR R, licators of hydrophytic ve trictive Layer (if observec Type: 	MLRA 14 egetation ():	<b>49B)</b> n and wetland hyd None	lrology mu -	ust be preser	nt, unless disturbe Soil Present?	Yes _∠_ No
Stripped Matrix (56) Dark Surface (S7) (LRR R, licators of hydrophytic ve trictive Layer (if observec Type: Depth (inches): harks:	MLRA 14	<b>49B)</b> n and wetland hyd None	Irology mu -	Hydric	nt, unless disturbe Soil Present?	Yes _∠_ No
Stripped Matrix (S6) Dark Surface (S7) (LRR R, icators of hydrophytic ve rictive Layer (if observed Type: Depth (inches): narks:	MLRA 14 egetation i):	<b>49B)</b> <u>n and wetland hyd</u> <u>None</u>	Irology mu	Hydric	nt, unless disturbe Soil Present?	Yes _∠_ No
Stripped Matrix (56) Dark Surface (57) (LRR R, licators of hydrophytic ve trictive Layer (if observec Type: Depth (inches): harks:	MLRA 14 egetation i):	49B) n and wetland hyd None	Irology mu	ust be preser	nt, unless disturbe Soil Present?	red or problematic.
Dark Surface (S7) (LRR R, icators of hydrophytic ve rictive Layer (if observec Type: Depth (inches): harks:	MLRA 14 egetation i):	<b>49B)</b> n and wetland hyd None	Irology mu	ust be preser	nt, unless disturbe	Yes _∠_ No



Soil Photos

Photo of Sample Plot North



Photo of Sample Plot East Photo of Sample Plot South



Photo of Sample Plot West



## WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Riverside Solar	City/County: Chaumont, Jeffer	son	Sampling Date: 202	20-June-04
Applicant/Owner: Geronimo		State: NY	Sampling Point: W-N	SD-08_UPL-1
Investigator(s): Nick DeJohn, Other, Ben I	Popham Section	on, Township, Range:		
Landform (hillslope, terrace, etc.): Flat	Local relief (	concave, convex, none):	Undulating	Slope (%): 0 to 1
Subregion (LRR or MLRA): LRR R	Lat:	44.0609652875 Long:	-76.1029205472	Datum: WGS84
Soil Map Unit Name: VeBVergennes silt	ty clay loam, 3 to 8 percent slopes		NWI classificatio	n:
Are climatic/hydrologic conditions on the si	ite typical for this time of year?	Yes 🟒 No (If n	o, explain in Remarks.)	
Are Vegetation, Soil, or Hyd	lrology significantly disturbed?	Are "Normal Circums	tances" present?	Yes 🟒 No
Are Vegetation, Soil, or Hyd	<pre>trology naturally problematic?</pre>	(If needed, explain ar	ny answers in Remarks	.)

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

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

### HYDROLOGY

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

VEGETATION -- Use scientific names of plants.

Sampling Point: W-NSD-08\_UPL-1

Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test works</b> Number of Dominant S	h <b>eet:</b> Species That	1	
			Are OBL, FACW, or FAC	:	I	(A)
			<ul> <li>Total Number of Domin</li> <li>Across All Strata:</li> </ul>	hant Species	2	(B)
			Percent of Dominant S	pecies That	50	(A/B)
			- Brevalence Index work	choot:		
				of	Multiply	Dv <i>r</i>
				<u>oi.</u>		<u>by.</u>
0	= Total Cov	er	= ODE species _	10	× 1	0
	-		FACW species	40	x Z	00
			FAC species	0	×3= -	0
			- FACU species -	40	x 4 =	160
			- UPL species -	0	x 5 =	0
			– Column Totals –	80	(A)	240 (B)
			Prevalence Ir	dex = B/A =	3	
			<ul> <li>Hydrophytic Vegetation</li> </ul>	n Indicators:		
			1- Rapid Test for H	Hydrophytic V	egetation/	
	- Total Cov	~~	– 2 - Dominance Te	st is > 50%		
0	- 10tal COV	er	_✔_ 3 - Prevalence Inc	lex is $\leq 3.0^1$		
40	Vee		4 - Morphological	Adaptations <sup>1</sup>	(Provide	supporting
	Yes	FACW	– data in Remarks or on	a separate sh	leet)	
20	Yes	FACU	Problematic Hydr	ophytic Vege	tation <sup>1</sup> (Ex	(plain)
12	No	FACU	<ul> <li>Indicators of hydric so</li> </ul>	il and wetlan	d hydrolo	gy must be
8	No	FACU	_ present, unless disturb	ed or probler	natic	
5	No	NI	Definitions of Vegetation	on Strata:		
			Tree – Woody plants 3	in. (7.6 cm) or	more in o	diameter at
			_ breast height (DBH), re	gardless of h	eight.	
			Sapling/shrub – Woody	plants less t	han 3 in. [	OBH and
			greater than or equal t	o 3.28 ft (1 m	) tall.	
			Herb – All herbaceous	(non-woody)	plants, reg	gardless of
			size, and woody plants	less than 3.2		20.6
			woody vines – All wood	dy vines great	er than 3.	.28 ft in
85	= Total Cov	er				
			Hydrophytic Vegetatio	n Present?	/es N	lo _
			=			
			-			
			-			
	Absolute % Cover 	Absolute         Dominant           % Cover         Species?	Absolute         Dominant         Indicator           % Cover         Species?         Status	Absolute Dominant Indicator       Vominance rest works         % Cover       Species?       Status         Number of Dominant S       Are OBL, FACW, or FAC         Total Number of Dominant S       Are OBL, FACW, or FAC         Percent of Dominant S       Are OBL, FACW, or FAC         Prevalence Index works       Total % Cover         0       = Total Cover         ACU species       FACU species         0       = Total Cover         AQ       Yes         40       Yes         40       Yes         40       Yes         40       Yes         40       Yes         5       No         12       No         5       No         5       No         5       No         7       Sapling/shrub - Woody greater than or equal the therb - All herbaceous size, and woody plants 3         Base       Sapling/shrub - Woody greater than or equal the theight.         Hydrophytic Vegetation       Sapling/shrub - Woody greater than or equal the therb - All herbaceous size, and woody plants 3	Absolute Dominant Indicator       younnance fest worksheet:         Worksheet:       Number of Dominant Species That         Are OBL, FACW, or FAC:       Total Number of Dominant Species That         Are OBL, FACW, or FAC:       Prevalence Index worksheet:         Worksheet:       Total % Cover of:         OBL species       0         Prevalence Index worksheet:       Total % Cover of:         OBL species       0         Prevalence Index worksheet:       0         Column Total % Cover of:       OBL species         O       = Total Cover         FACU species       0         Column Totals       80         Prevalence Index is ≤ 3.01	Absolute Dominant Indicator       Dominance rest worksneet:       1         % Cover       Species?       Status       Are OBL, FACW, or FAC:       1

SOIL

Sampling Point: W-NSD-08\_UPL-1

,	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup> Tex	ture	Remarks
0 - 17	10YR 3/2	<u> </u>		·		Silty Cl.	ay Loam	
				· · ·				
				·				
pe: C = C	oncentration, D = D	)epletio	n, RM = Reduced	Mati	rix, MS =	Masked Sand Grains. <sup>2</sup>	ocation: PL = Pore Linin	g, M = Matrix.
dric Soil I	ndicators:						Indicators for Problem	natic Hydric Soils <sup>3</sup> :
_ Histic Ep _ Black His _ Hydroge _ Stratified _ Depleted _ Thick Da _ Sandy N _ Sandy R _ Sandy R _ Strippec _ Dark Su	ipedon (A2) stic (A3) in Sulfide (A4) d Layers (A5) d Below Dark Surfa rk Surface (A12) lucky Mineral (S1) leyed Matrix (S4) edox (S5) l Matrix (S6) rface (S7) <b>(LRR R, M</b>	ce (A11)	Thin Dark Sur Loamy Mucky Depleted Mat Redox Dark S Depleted Dar Redox Depre	face / Min d Ma crix (F urfac k Sui ssior	(S9) <b>(LRR</b> eral (F1) ( trix (F2) <sup>-3</sup> ) :e (F6) face (F7) is (F8)	.R, MLRA 149В) (LRR K, L)	Coast Prairie Redo 5 cm Mucky Peat of Dark Surface (S7) Polyvalue Below S Thin Dark Surface Iron-Manganese M Piedmont Floodpl Mesic Spodic (TA6 Red Parent Mater Very Shallow Dark Other (Explain in F	ox (A16) <b>(LRR K, L, R)</b> or Peat (S3) <b>(LRR K, L, R)</b> <b>(LRR K, L)</b> urface (S8) <b>(LRR K, L)</b> (S9) <b>(LRR K, L)</b> Masses (F12) <b>(LRR K, L, R)</b> ain Soils (F19) <b>(MLRA 149B)</b> <b>) (MLRA 144A, 145, 149B)</b> ial (F21) : Surface (TF12) Remarks)
ndicators	of hydrophytic vege	etation a	nd wetland hydr	ology	y must be	e present, unless disturb	ed or problematic.	
strictive I	ayer (if observed):		-					
	Туре:		None			Hydric Soil Present?	Yes_	No
marks:	Depth (inches):							



Soil Photos

Photo of Sample Plot North



Photo of Sample Plot East



Photo of Sample Plot South



Photo of Sample Plot West



Northcentral and Northeast Region -- Version 2.0 Adapted by TRC

# WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Riverside Solar	City/County: Chaumont, Jefferson	Sampling Date: 2020-June-04
Applicant/Owner: Geronimo	State: NY	Sampling Point: W-NSD-09_PEM-1
Investigator(s): Nick DeJohn, Other, Ben Popham	Section, Township, Range:	
Landform (hillslope, terrace, etc.): Depression	Local relief (concave, convex, none):	Undulating Slope (%): 0 to 1
Subregion (LRR or MLRA): LRR R	Lat: 44.0644799034 Long:	-76.0995024071 Datum: WGS84
Soil Map Unit Name: KgAKingsbury silty clay, 0	o 2 percent slopes	NWI classification:
Are climatic/hydrologic conditions on the site typica	l for this time of year? Yes _∠_ No (If no	ɔ, explain in Remarks.)
Are Vegetation, Soil, or Hydrology _	significantly disturbed? Are "Normal Circums	tances" present? Yes 🟒 No
Are Vegetation, Soil, or Hydrology _	naturally problematic? (If needed, explain ar	ıy answers in Remarks.)

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

Hydrophytic Vegetation Present?	Yes 🟒 No		
Hydric Soil Present?	Yes 🟒 No	Is the Sampled Area within a Wetland?	Yes 🯒 No _
Wetland Hydrology Present?	Yes 🟒 No	If yes, optional Wetland Site ID:	W-NSD-09
Remarks: (Explain alternative procedur	res here or in a separate rep	ort)	
Covertype is PEM.			

### HYDROLOGY

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

VEGETATION -- Use scientific names of plants.

Sampling Point: W-NSD-09\_PEM-1

= Total (	Cover	Are OBL, FACW, or FAC:         Total Number of Dominant Sp.         Across All Strata:         Percent of Dominant Sp.         Are OBL, FACW, or FAC:         Prevalence Index works         Total % Cover of         OBL species         FACW species         FACW species         FACU species         Column Totals         Prevalence Index for H         ✓         1- Rapid Test for H         ✓         2 - Dominance Tes         ✓         3 - Prevalence Index	the etcomposition of the etco	1 $1$ $100$ $Multiply$ $x 1 = -$ $x 2 = -$ $x 3 = -$ $x 4 = -$ $x 5 = -$ $(A)$ $2$ $/ egetation$	(A) (B) (A/B) <b>By:</b> 0 210 0 0 210 (B)
= Total (	Cover	<ul> <li>Total Number of Domin</li> <li>Across All Strata:</li> <li>Percent of Dominant Sp</li> <li>Are OBL, FACW, or FAC:</li> <li>Prevalence Index works</li> <li>Total % Cover of</li> <li>OBL species</li> <li>FACW species</li> <li>FACU species</li> <li>FACU species</li> <li>Column Totals</li> <li>Prevalence In</li> <li>Hydrophytic Vegetation</li> <li>✓ 1- Rapid Test for H</li> <li>✓ 2 - Dominance Tes</li> <li>✓ 3 - Prevalence Index</li> </ul>	the et: 0 0 105 0 105 0 0 105 0 105 dex = B/A =	1 100 Multiply x 1 = x 2 = x 3 = x 4 = (A) 2 //////////////////////////////////	(B) (A/B) <b>By:</b> 0 210 0 0 210 (B)
= Total (	Cover	<ul> <li>Percent of Dominant Species</li> <li>Prevalence Index works</li> <li><u>Total % Cover of</u></li> <li>OBL species</li> <li>FACW species</li> <li>FAC species</li> <li>FACU species</li> <li>Column Totals</li> <li><u>Prevalence In</u></li> <li>Hydrophytic Vegetation</li> <li>1 - Rapid Test for H</li> <li>2 - Dominance Tes</li> <li>4 - Morphological</li> </ul>	becies That becies That 0 105 0 0 105 dex = B/A = 1 Indicators: 1 lydrophytic V st is >50% ex is $\leq 3.0^{1}$	100 Multiply x 1 = x 2 = x 3 = x 4 = (A) 2 //////////////////////////////////	(A/B) <b>By:</b> 0 210 0 0 210 (B)
_ = Total (	Cover	Are OBL, PACW, of PAC.         Prevalence Index works         OBL species         FACW species         FACU species         FACU species         OUPL species         Column Totals         Prevalence In         Hydrophytic Vegetation         ✓       1- Rapid Test for H         ✓       2 - Dominance Tess         ✓       3 - Prevalence Index         ✓       3 - Prevalence Index	sheet: 0 105 0 0 105 dex = $B/A =$ Indicators: lydrophytic V st is >50% ex is $\leq 3.0^1$	Multiply         x 1 =         x 2 =         x 3 =         x 4 =         x 5 =         (A)         2	By: 0 210 0 0 210 (B)
= Total (	Cover	Prevalence index works <u>Total % Cover</u> OBL species     FACW species     FAC species     FACU species     UPL species     Column Totals     Prevalence In     Hydrophytic Vegetation     ✓ 1- Rapid Test for H     ✓ 2 - Dominance Tes     ✓ 3 - Prevalence Index     ✓ 4 - Morphological.	indect: 0 105 0 0 105 dex = B/A = 1 Indicators: 1 lydrophytic V st is >50% ex is $\leq 3.0^{1}$	Multiply         x 1 =         x 2 =         x 3 =         x 4 =         x 5 =         (A)         2	By: 0 210 0 0 210 (B)
_ = Total (	Cover	OBL species     FACW species     FAC species     FACU species     UPL species     Olumn Totals     Orevalence In     Hydrophytic Vegetation     ✓ 1- Rapid Test for H     ✓ 2 - Dominance Tes     ✓ 3 - Prevalence Inde     ✓ 4 - Morphological.	0 105 0 105 0 105 dex = $B/A =$ Indicators: lydrophytic V st is >50% ex is ≤ 3.0 <sup>1</sup>	$\begin{array}{c} x & 1 = \\ x & 2 = \\ x & 3 = \\ x & 4 = \\ x & 5 = \\ (A) \\ 2 \end{array}$	0 210 0 0 210 (B)
_= Total (	Cover	FACW species         FAC species         FACU species         Prevalence In         Hydrophytic Vegetation         ✓       1- Rapid Test for H         ✓       2 - Dominance Tess         ✓       3 - Prevalence Index         ✓       3 - Prevalence Index         ✓       4 - Morphological	$\frac{0}{105}$ $0$ $0$ $105$ $\frac{105}{105}$ $\frac{106}{105}$ $$	x 1	210 0 0 210 (B)
= Total (	Cover FACW	FACW Species         FAC species         FACU species         UPL species         Column Totals         Prevalence In         Hydrophytic Vegetation         ✓       1- Rapid Test for H         ✓       2 - Dominance Tess         ✓       3 - Prevalence Index	$\frac{0}{0}$ $\frac{0}{105}$ $\frac{105}{100}$ $\frac{105}{100}$ $\frac{100}{100}$ $\frac{100}{100}$ $\frac{100}{100}$ $\frac{100}{100}$ $\frac{100}{100}$ $\frac{100}{100}$ $\frac{100}{100}$	$\begin{array}{c} x & 2 & - \\ x & 3 & = \\ x & 4 & = \\ x & 5 & = \\ (A) \\ \underline{} \\ \end{array}$	0 0 210 (B)
= Total (	Cover FACW	FAC species     FACU species     UPL species     Column Totals     Prevalence In     Hydrophytic Vegetation    1 - Rapid Test for H    2 - Dominance Tes    3 - Prevalence Inde    4 - Morphological.	$\frac{0}{0}$ $\frac{105}{\text{dex} = \text{B/A} =}$ $\frac{1 \text{Indicators:}}{1 \text{lydrophytic V}}$ $\frac{1 \text{s} > 50\%}{1 \text{ex is} \le 3.0^{1}}$	$\begin{array}{c} x 3 = \\ x 4 = \\ x 5 = \\ (A) \\ 2 \end{array}$	0 0 210 (B)
= Total ( Yes	Cover FACW	<ul> <li>FACU species</li> <li>UPL species</li> <li>Column Totals</li> <li>Prevalence In</li> <li>Hydrophytic Vegetation</li> <li>_✓ 1- Rapid Test for H</li> <li>_✓ 2 - Dominance Tes</li> <li>_✓ 3 - Prevalence Index</li> <li>_✓ 4 - Morphological</li> </ul>	$\frac{0}{105}$ $\frac{105}{100}$ $\frac{100}{100}$ $\frac{100}{100}$ $\frac{100}{100}$ $\frac{100}{100}$ $\frac{100}{100}$ $\frac{100}{100}$ $\frac{100}{100}$	x 4 = x 5 = (A) 2 /egetation	0 0 210 (B)
= Total (	  Cover FACW	UPL species     Column Totals     Prevalence In     Hydrophytic Vegetation    1 - Rapid Test for H    2 - Dominance Tes    3 - Prevalence Inde    4 - Morphological.	$\frac{0}{105}$ $\frac{dex = B/A = }{100}$ Indicators: lydrophytic V st is >50% ex is $\leq 3.0^{10}$	x 5 = (A) /egetation	0 210 (B)
= Total ( Yes	  Cover FACW	<ul> <li>Column Totals</li> <li>Prevalence In</li> <li>Hydrophytic Vegetation</li> <li>1- Rapid Test for H</li> <li>2 - Dominance Tes</li> <li>3 - Prevalence Inde</li> <li>4 - Morphological</li> </ul>	$\frac{105}{\text{dex} = \text{B/A} =}$ Indicators: lydrophytic V st is >50% ex is $\leq 3.0^1$	(A) 2 /egetation	210 (B)
= Total ( Yes	Cover	<ul> <li>Prevalence In</li> <li>Hydrophytic Vegetation</li> <li>1- Rapid Test for H</li> <li>2 - Dominance Tes</li> <li>3 - Prevalence Inde</li> <li>4 - Morphological</li> </ul>	$\frac{\text{dex} = \text{B/A} =}{\text{Indicators:}}$ $\frac{1}{1} \frac{1}{1} \frac{1}{$	2/egetation	
= Total ( Yes	Cover FACW	<ul> <li>Hydrophytic Vegetation</li> <li>_✓ 1- Rapid Test for H</li> <li>_✓ 2 - Dominance Tes</li> <li>_✓ 3 - Prevalence Inde</li> <li> 4 - Morphological</li> </ul>	Indicators: lydrophytic V st is >50% ex is $\leq 3.0^1$	egetation/	
= Total ( Yes	Cover FACW	<ul> <li> 1- Rapid Test for H</li> <li> 2 - Dominance Test</li> <li> 3 - Prevalence Indet</li> <li> 4 - Morphological</li> </ul>	lydrophytic V st is >50% ex is ≤ $3.0^1$	egetation/	
= Total ( Yes	Cover FACW	<ul> <li>2 - Dominance Tes</li> <li>3 - Prevalence Inde</li> <li>4 - Morphological</li> </ul>	st is >50% ex is $\leq 3.0^1$		
Yes	FACW	3 - Prevalence Inde	ex is $\leq 3.0^1$		
Yes	FACW	4 - Morphological			
res	FACVV		Adaptations <sup>1</sup>	(Provide	supporting
		<ul> <li>data in Remarks or on a</li> </ul>	a separate sh	neet)	
INO	FACW	Problematic Hydro	ophytic Veget	tation <sup>1</sup> (Ex	(plain)
	<u> </u>	<ul> <li>Indicators of hydric soi</li> </ul>	l and wetlan	d hydrolo	gy must be
		present, unless disturbe	ed or probler	matic	
		Definitions of Vegetatio	n Strata:		
		Tree – Woody plants 3 in	n. (7.6 cm) or	r more in o	diameter at
		breast height (DBH), reg	gardless of h	eight.	
		Sapling/shrub - Woody	plants less tl	han 3 in. D	)BH and
		greater than or equal to	o 3.28 ft (1 m	) tall.	
		Herb – All herbaceous (	non-woody)	plants, reg	gardless of
		size, and woody plants	less than 3.2	8 ft tall.	
		Woody vines – All wood	ly vines great	ter than 3.	.28 ft in
= Total (	over	height.			
		Hydrophytic Vegetatior	n Present?	/es 🟒 N	lo
·		-			
·		-			
		-			
= Total (	Cover	-			
	= Total (	= Total Cover	Image: Second structure       1 Indicators of hydric soid present, unless disturbut         Image: Second structure       Definitions of Vegetation         Image: Second structure       Tree - Woody plants 3 in breast height (DBH), reg         Sapling/shrub - Woody greater than or equal to the second structure       Sapling/shrub - Woody greater than or equal to the second structure         Image: Second structure       Herb - All herbaceous (size, and woody plants)         Woody vines - All wood       Height.         Image: Second structure       Height.         Image: Second structure       Hydrophytic Vegetation         Image: Second structure       Image: Second structure         Image: Second structure       Image: Second structure         Image: Second structure       Hydrophytic Vegetation         Image: Second structure       Image: Second structure         Image: Second structure <td< td=""><td>Image: Second stress of se</td><td>Image: Second strate in the image: Second strate in the</td></td<>	Image: Second stress of se	Image: Second strate in the

SOIL

1-14       10YR 3/2       95       10YR 4/4       5       C       M/PL       Silty Clay Loam         4-20       10YR 5/1       90       7.5YR 4/6       10       C       M       Clay Loam         4-20       10YR 5/1       90       7.5YR 4/6       10       C       M       Clay Loam	10YR 3/2       95       10YR 4/4       5       C       M/PL       Silty Clay Loam         10YR 5/1       90       7.5YR 4/6       10       C       M       Clay Loam         10YR 5/1       90       7.5YR 4/6       10       C       M       Clay Loam         10YR 5/1       90       7.5YR 4/6       10       C       M       Clay Loam         10YR 5/1       90       7.5YR 4/6       10       C       M       Clay Loam         10YR 3/2       90       7.5YR 4/6       10       C       M       Clay Loam         10YR 3/2       90       7.5YR 4/6       10       C       M       Clay Loam         10YR 3/2       90       7.5YR 4/6       10       C       M       Clay Loam         10YR 3/2       90       7.5YR 4/6       10       C       M       Clay Loam         10YR 3/2       10       10       Polyvalue Below Surface (S8) (LRR R, MLRA 149B)       2       Coast Prairie Redox (A16) (LRR K, L R)         11 Indicators       10 Aprito Park Surface (S9) (LRR R, LR 149B)       2 cm Muck (A10) (LRR K, L R)       5 cm Muck Paet or Paet (S3) (LRR K, L R)         11 stic (A3)       Loamy Mucky Mineral (F1) (LRR K, L)       5 cm Muck Paet or Paet (S3) (LRR K, L R)<	- 14       10YR 3/2         - 20       10YR 5/1         - 20	95 10YR 4/4 90 7.5YR 4/6 90	5 C 10 C 10 C 	M/PL Silty Clay M Clay Lo Clay Lo Clay Lo Slate Clay Lo Slate Clay Lo Masked Sand Grains. 2Lo Slate Clay Lo Clay Lo Cl	Loam
4 - 20       10YR 5/1       90       7.5YR 4/6       10       C       M       Clay Loam         4 - 20       10YR 5/1       90       7.5YR 4/6       10       C       M       Clay Loam         4 - 20       10YR 5/1       90       7.5YR 4/6       10       C       M       Clay Loam	100 KS /1       90       7.5YR 4/6       10       C       M       Clay Loam         100 KS /1       90       7.5YR 4/6       10       C       M       Clay Loam         100 KS /1       90       7.5YR 4/6       10       C       M       Clay Loam         100 KS /1       90       7.5YR 4/6       10       C       M       Clay Loam         100 KS /1       10       10       C       M       Clay Loam       Indicators:         11 Indicators:       10       10       Polyvalue Below Surface (S8) (LRR R, MLRA 149B)       2 cm Muck (A10) (LR K, L, R)         11 Indicators:       10       10 any Mucky Mineral (F1) (LRR K, L)       2 cm Muck (A10) (LR K, L, R)         11 Indicators:       10 any Gleyed Matrix (F2)       2 cm Muck (A10) (LR K, L, R)         12 Gelw Dark Surface (A12)       Depleted Matrix (F2)       2 cm Muck (A10) (LR K, L, R)         12 Gelw Dark Surface (A11)       Redox Dark Surface (F6)       Thin Dark Surface (S9) (LR K, L)         13 Coard Carterial (S1)       Redox Depressions (F8)       Piedmont Floodplain Soils (F19) (MLRA 149B)         13 Coard Carterial (F21)       Polyvalue Below Surface (S7) (LR K, L, R)       Piedmont Floodplain Soils (F12) (LR K, L, R)         14 Gelv Matrix (S4)       Redox Depressions (F8)       Red Parent	- 20 10YR 5/1	90 7.5YR 4/6 90 7.5YR 4/6 9	a d Matrix, MS =	M Clay Lo Clay Lo Clay Lo M Clay Lo Masked Sand Grains. 2Lo S8) (LRR R, MLRA 149B) R R, MLRA 149B) ) (LRR K, L)	poam
pe: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains.       *Location: PL = Pore Lining, M = Matrix.         pric Soil Indicators:       Indicators for Problematic Hydric Soils*:         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, MLRA 149B)         Histic Epipedon (A2)       Thin Dark Surface (S9) (LRR R, MLRA 149B)         Black Histic (A3)       Loamy Mucky Mineral (F1) (LRR K, L)         Stratified Layers (A5)       Depleted Matrix (F2)         Depleted Below Dark Surface (A11).       Redox Dark Surface (F6)         Thick Dark Surface (A11).       Depleted Matrix (F2)         Sandy Mucky Mineral (S1)       Redox Depressions (F8)         Sandy Gleyed Matrix (S4)       Depleted Matrix (F7)         Sandy Mucky Singer (S5)       Thin Dark Surface (F7)         Stripped Matrix (S4)       Redox Depressions (F8)         Sandy Redox (S5)       Mesic Spodic (TA6) (MLRA 149B)         Stripped Matrix (S6)       Other (Explain in Remarks)         Dark Surface (S7) (LRR R, MLRA 149B)       Other (Explain in Remarks)         Sitcators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.       Tries ark. Z. Mo	Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains.       ²Location: PL = Pore Lining, M = Matrix.         II Indicators:       Indicators for Problematic Hydric Soils?:         of (A1)	e: C = Concentration, D = E ric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surfa Fhick Dark Surface (A12) Sandy Mucky Mineral (S1)	Depletion, RM = Reduce	ed Matrix, MS =	Masked Sand Grains. <sup>2</sup> Lc S8) (LRR R, MLRA 149B) R R, MLRA 149B) (LRR K, L)	pcation: PL = Pore Lining, M = Matrix. Indicators for Problematic Hydric Soils <sup>3</sup> : 2 cm Muck (A10) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R)
pe: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. <sup>2</sup> Location: PL = Pore Lining, M = Matrix.         Indicators:       Indicators for Problematic Hydric Soils?         Histosol (A1)      Polyvalue Below Surface (S8) (LRR R, MLRA 149B)         Histosol (A2)      Thin Dark Surface (S9) (LRR R, MLRA 149B)         Black Histic (A3)      Loamy Mucky Mineral (F1) (LRR K, L)         Hydrogen Sulfide (A4)      Depleted Matrix (F2)         Stratified Layers (A5)      Depleted Matrix (F2)         Depleted Below Dark Surface (A11) / Redox Dark Surface (F6)      Thin Dark Surface (S3) (LRR K, L)         Thic Dark Surface (A12)      Depleted Dark Surface (F7)         Sandy Gleyed Matrix (S6)      Red Parent Material (F12)         Stripped Matrix (S6)      Red Parent Material (F12)         Dark Surface (S7) (LRR K, MLRA 149B)	Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. <sup>2</sup> Location: PL = Pore Lining, M = Matrix.         Indicators:       Indicators for Problematic Hydric Soils*:         ol (A1)	e: C = Concentration, D = D ric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surfa Fhick Dark Surface (A12) Sandy Mucky Mineral (S1)	Polyvalue B Polyvalue B Polyvalue B Thin Dark S Loamy Muc Loamy Gley Depleted M ce (A11) Redox Dark	ed Matrix, MS =	■	Decation: PL = Pore Lining, M = Matrix. Indicators for Problematic Hydric Soils <sup>3</sup> : 2 cm Muck (A10) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R)
pe: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains.       2Location: PL = Pore Lining, M = Matrix.         Indicators:       Indicators for Problematic Hydric Soils?         Histosol (A1)      Polyvalue Below Surface (S8) (LRR R, MLRA 149B)         Histosol (A1)      Polyvalue Below Surface (S8) (LRR R, MLRA 149B)         Black Histic (A3)      Loamy Mucky Mineral (F1) (LRR K, L)         Hydrogen Sulfde (A4)      Loamy Gleyed Matrix (F2)         Stratified Layers (A5)      Depleted Matrix (F2)         Dapleted Below Dark Surface (A11)      Redox Dark Surface (F6)         Thic Dark Surface (A12)      Depleted Dark Surface (F7)         Sandy Gleyed Matrix (S4)	Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. <sup>2</sup> Location: PL = Pore Lining, M = Matrix.         Indicators:       Indicators for Problematic Hydric Soils <sup>2</sup> :         ol (A1)	e: C = Concentration, D = D ric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surfa Fhick Dark Surface (A12) Sandy Mucky Mineral (S1)	Polyvalue B Polyvalue B Thin Dark S Loamy Muc Loamy Gley Depleted M ce (A11) Redox Dark	ed Matrix, MS = Below Surface ( Surface (Surface	Masked Sand Grains. <sup>2</sup> Lc S8) (LRR R, MLRA 149B) R R, MLRA 149B) ) (LRR K, L)	pcation: PL = Pore Lining, M = Matrix. Indicators for Problematic Hydric Soils <sup>3</sup> : 2 cm Muck (A10) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R)
pe: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. <sup>2</sup> Location: PL = Pore Lining, M = Matrix.         tric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, MLRA 149B)         Black Histic (A3)       Loamy Mucky Mineral (F1) (LRR K, L)         Hydrogen Sulfide (A4)       Loamy Mucky Mineral (F1)         Stratified Layers (A5)       Depleted Matrix (F2)         Depleted Below Dark Surface (F6)       Thin Dark Surface (F6)         Thick Dark Surface (A11)       Redox Dark Surface (F7)         Sandy Mucky Mineral (S1)       Redox Depressions (F8)         Sandy Redox (S5)       Peleted Matrix (S4)         Stripped Matrix (S6)       Red Parent Material (F12)         Dark Surface (S7) (LRR R, MLRA 149B)       Very Shallow Dark Surface (TF12)         Dark Surface (S7)       Redox Depressions (F8)         Sandy Redox (S5)       Red Parent Material (F12)         Stripped Matrix (S6)       Red Parent Material (F12)         Dark Surface (S7) (LRR R, MLRA 149B)       Very Shallow Dark Surface (TF12)         Dark Surface (S7)       Hydric Soil Present?         Yes No       Yes No	Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. <sup>2</sup> Location: PL = Pore Lining, M = Matrix.         Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         ol (A1)      Polyvalue Below Surface (S8) (LRR R, MLRA 149B)         Epipedon (A2)      Thin Dark Surface (S9) (LRR R, MLRA 149B)         Histic (A3)      Loamy Mucky Mineral (F1) (LRR K, L)         gen Sulfide (A4)      Depleted Matrix (F2)         jed Below Dark Surface (A11) // Redox Dark Surface (F6)      Dark Surface (S9) (LRR K, L)         Jark Surface (A12)      Depleted Dark Surface (F7)         Mucky Mineral (S1)      Redox Depressions (F8)         Gleyed Matrix (S4)	e: C = Concentration, D = E ric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surfa Fhick Dark Surface (A12) Sandy Mucky Mineral (S1)	Depletion, RM = Reduce Polyvalue B Thin Dark S Loamy Muc Loamy Gley Depleted M ce (A11) _ Redox Dark	ed Matrix, MS = Below Surface ( Surface (S9) <b>(LR</b> cky Mineral (F1) yed Matrix (F2)		ocation: PL = Pore Lining, M = Matrix. Indicators for Problematic Hydric Soils <sup>3</sup> : 2 cm Muck (A10) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R)
pe: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains.       ²Location: PL = Pore Lining, M = Matrix.         Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)      Polyvalue Below Surface (S8) (LRR R, MLRA 149B)         Histic Epipedon (A2)      Thin Dark Surface (S9) (LRR K, L)         Black Histic (A3)      Loamy Mucky Mineral (F1) (LRR K, L)         Stratified Layers (A5)      Depleted Matrix (F2)         Stratified Layers (A5)      Depleted Matrix (F3)         Depleted Below Dark Surface (A11)      Redox Dark Surface (F6)         Thick Dark Surface (A12)      Depleted Dark Surface (F7)         Sandy Mucky Mineral (S1)      Redox Depressions (F8)         Sandy Redox (S5)	Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. <sup>2</sup> Location: PL = Pore Lining, M = Matrix.         Il Indicators:       Indicators for Problematic Hydric Soils?         ol (A1)      Polyvalue Below Surface (S8) (LRR R, MLRA 149B)         Epipedon (A2)      Thin Dark Surface (S9) (LRR R, MLRA 149B)         Histic (A3)      Loamy Mucky Mineral (F1) (LRR K, L)         gen Sulfide (A4)      Depleted Matrix (F2)         ied layers (A5)      Depleted Matrix (F3)         Teid Below Dark Surface (A11)      Redox Dark Surface (F6)         Dark Surface (A12)      Depleted Dark Surface (F7)         Mucky Mineral (S1)      Redox Depressions (F8)         Gleyed Matrix (S6)      Mesic Spodic (TA6) (MLRA 1449B)         Medox (S5)      Red Parent Material (F21)         od Matrix (S6)      Red Parent Material (F21)         jurface (S7) (LRR R, MLRA 149B)	e: C = Concentration, D = D ric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surfa Fhick Dark Surface (A12) Sandy Mucky Mineral (S1)	Depletion, RM = Reduce Polyvalue B Thin Dark S Loamy Muc Loamy Gley Depleted M ce (A11) _ Kedox Dark	ed Matrix, MS = Below Surface ( Surface (S9) (LR cky Mineral (F1) yed Matrix (F2)	■ ■ ■ Masked Sand Grains. 2Lc S8) (LRR R, MLRA 149B) R R, MLRA 149B) ) (LRR K, L)	ocation: PL = Pore Lining, M = Matrix. Indicators for Problematic Hydric Soils <sup>3</sup> : 2 cm Muck (A10) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R)
De: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. <sup>2</sup> Location: PL = Pore Lining, M = Matrix.         Indicators:       Indicators for Problematic Hydric Soils?:         Histosol (A1)      Polyvalue Below Surface (S8) (LRR R, MLRA 149B)         Histic Epipedon (A2)      Thin Dark Surface (S9) (LRR R, MLRA 149B)         Black Histic (A3)      Loamy Mucky Mineral (F1) (LRR K, L)         Stratified Layers (A5)      Depleted Matrix (F2)         Depleted Bolow Dark Surface (A11)      Redox Depressions (F8)         Sandy Gleyed Matrix (S4)      Depleted Dark Surface (F7)         Sandy Redox (S5)	Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. <sup>2</sup> Location: PL = Pore Lining, M = Matrix.         II Indicators:       Indicators for Problematic Hydric Soils?:         ol (A1)      Polyvalue Below Surface (S8) (LRR R, MLRA 149B)       2 cm Muck (A10) (LRR K, L, MLRA 149B)         Epipedon (A2)      Thin Dark Surface (S9) (LRR R, MLRA 149B)       2 cm Muck (A10) (LRR K, L, R)         gen Sulfide (A4)      Loamy Gleyed Matrix (F2)      Dark Surface (S7) (LRR K, L)         gen Sulfide (A4)      Loamy Gleyed Matrix (F3)      Dark Surface (S7) (LRR K, L)         ied Below Dark Surface (A11)       Redox Dark Surface (F6)      Thin Dark Surface (S9) (LRR K, L, R)         Dark Surface (A12)      Depleted Dark Surface (F7)      Thin Dark Surface (S9) (LRR K, L, R)         Gleyed Matrix (S4)	e: C = Concentration, D = D ric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surfa Fhick Dark Surface (A12) Sandy Mucky Mineral (S1)	Depletion, RM = Reduce Polyvalue B Thin Dark S Loamy Muc Loamy Gley Depleted M ce (A11) _ Redox Dark	ed Matrix, MS = Below Surface ( Surface (S9) <b>(LR</b> cky Mineral (F1) yed Matrix (F2)	Masked Sand Grains. <sup>2</sup> Lc S8) (LRR R, MLRA 149B) R R, MLRA 149B) ) (LRR K, L)	ication: PL = Pore Lining, M = Matrix. Indicators for Problematic Hydric Soils <sup>3</sup> : 2 cm Muck (A10) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R)
De: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. <sup>2</sup> Location: PL = Pore Lining, M = Matrix.         Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)      Polyvalue Below Surface (S8) (LRR R, MLRA 149B)         Histosol (A2)      Thin Dark Surface (S9) (LRR K, L)         Black Histic (A3)      Loamy Mucky Mineral (F1) (LRR K, L)         Hydrogen Sulfide (A4)      Loamy Gleyed Matrix (F2)         Stratified Layers (A5)      Depleted Matrix (F3)         Depleted Below Dark Surface (A11) / Redox Dark Surface (F6)      Drains Surface (S9) (LRR K, L)         Thin Dark Surface (A12)      Depleted Dark Surface (F7)         Sandy Mucky Mineral (S1)      Redox Depressions (F8)         Sandy Redox (S5)      Depleted Dark Surface (F7)         Stripped Matrix (S6)	Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. <sup>2</sup> Location: PL = Pore Lining, M = Matrix.         Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         ol (A1)      Polyvalue Below Surface (S8) (LRR R, MLRA 149B)         Epipedon (A2)      Thin Dark Surface (S9) (LRR R, MLRA 149B)         Histic (A3)      Loamy Mucky Mineral (F1) (LRR K, L)         gen Sulfide (A4)      Loamy Gleyed Matrix (F2)         gen Sulfide (A4)      Depleted Matrix (F3)         ied Layers (A5)      Depleted Matrix (F3)         Dark Surface (A11)_       Redox Dark Surface (F6)         Dark Surface (S1)      Depleted Dark Surface (F7)         Mucky Mineral (S1)      Redox Depressions (F8)         Gleyed Matrix (S6)      Need Parent Material (F21)         Yery Shallow Dark Surface (T71)	e: C = Concentration, D = D ric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surfa Fhick Dark Surface (A12) Sandy Mucky Mineral (S1)	Depletion, RM = Reduce Polyvalue B Thin Dark S Loamy Muc Loamy Gley Depleted M ce (A11) _ Redox Dark	ed Matrix, MS = Below Surface ( Surface (S9) <b>(LR</b> cky Mineral (F1) yed Matrix (F2)	<ul> <li>Masked Sand Grains. <sup>2</sup>Lc</li> <li>S8) (LRR R, MLRA 149B)</li> <li>R R, MLRA 149B)</li> <li>) (LRR K, L)</li> </ul>	ecation: PL = Pore Lining, M = Matrix. Indicators for Problematic Hydric Soils <sup>3</sup> : 2 cm Muck (A10) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R)
pe: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. <sup>2</sup> Location: PL = Pore Lining, M = Matrix.         Iric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)	Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains.       ²Location: PL = Pore Lining, M = Matrix.         Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         ol (A1)	e: C = Concentration, D = D ric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surfa Fhick Dark Surface (A12) Sandy Mucky Mineral (S1)	Depletion, RM = Reduce Polyvalue B Thin Dark S Loamy Muc Loamy Gley Depleted M ce (A11) _ Kedox Dark	ed Matrix, MS = Below Surface ( Surface (S9) <b>(LR</b> cky Mineral (F1 yed Matrix (F2)	Masked Sand Grains. <sup>2</sup> Lc S8) (LRR R, MLRA 149B) R R, MLRA 149B) ) (LRR K, L)	ocation: PL = Pore Lining, M = Matrix. Indicators for Problematic Hydric Soils <sup>3</sup> : 2 cm Muck (A10) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R)
pe: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains.       ²Location: PL = Pore Lining, M = Matrix.         Iric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, MLRA 149B)       2 cm Muck (A10) (LRR K, L, MLRA 149B)         Black Histic (A3)       Loamy Mucky Mineral (F1) (LRR K, L)       5 cm Mucky Peat or Peat (S3) (LRR K, L, R)         Hydrogen Sulfide (A4)       Loamy Gleyed Matrix (F2)       Dark Surface (S7) (LRR K, L)         Stratified Layers (A5)       Depleted Matrix (F3)       Polyvalue Below Surface (F6)         Thick Dark Surface (A11) ✓       Redox Dark Surface (F7)       Thin Dark Surface (S9) (LRR K, L)         Sandy Gleyed Matrix (S4)       Depleted Dark Surface (F7)       Iron-Manganese Masses (F12) (LRR K, L, S)         Sandy Redox (S5)       Redox Depressions (F8)       Piedmont Floodplain Soils (F19) (MLRA 1445, 145)         Sandy Redox (S5)       Red Parent Material (F21)       Very Shallow Dark Surface (TF12)         Dark Surface (S7) (LRR R, MLRA 149B)       Very Shallow Dark Surface (TF12)       Other (Explain in Remarks)         dicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.       Yes _/ No         Trype:       None       Hydric Soil Present?       Yes _/ No	Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains.       ²Location: PL = Pore Lining, M = Matrix.         Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         ol (A1)      Polyvalue Below Surface (S8) (LRR R, MLRA 149B)         Epipedon (A2)      Thin Dark Surface (S9) (LRR R, MLRA 149B)         Histic (A3)      Loamy Mucky Mineral (F1) (LRR K, L)         gen Sulfide (A4)      Loamy Gleyed Matrix (F2)         ied Layers (A5)      Depleted Matrix (F3)         Dark Surface (A11) ✓       Redox Dark Surface (F6)         Dark Surface (A12)      Depleted Dark Surface (F7)         Mucky Mineral (S1)      Redox Depressions (F8)         Gleyed Matrix (S6)	e: C = Concentration, D = D ric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surfa Fhick Dark Surface (A12) Sandy Mucky Mineral (S1)	Depletion, RM = Reduce Polyvalue B Thin Dark S Loamy Muc Loamy Gley Depleted M ce (A11) _ Kedox Dark	ed Matrix, MS = Below Surface ( Surface (S9) <b>(LR</b> cky Mineral (F1) yed Matrix (F2)	Masked Sand Grains. <sup>2</sup> Lc S8) (LRR R, MLRA 149B) R R, MLRA 149B) ) (LRR K, L)	ication: PL = Pore Lining, M = Matrix. Indicators for Problematic Hydric Soils <sup>3</sup> : 2 cm Muck (A10) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R)
be: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. <sup>2</sup> Location: PL = Pore Lining, M = Matrix.         Iric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, MLRA 149B)         Histo (A2)       Thin Dark Surface (S9) (LRR R, MLRA 149B)         Black Histic (A3)       Loamy Mucky Mineral (F1) (LRR K, L)         Hydrogen Sulfide (A4)       Loamy Gleyed Matrix (F2)         Stratified Layers (A5)       Depleted Matrix (F3)         Depleted Below Dark Surface (A11) // Redox Dark Surface (F6)       Thin Dark Surface (F7)         Thick Dark Surface (A12)       Depleted Dark Surface (F7)         Sandy Gleyed Matrix (S4)       Redox Depressions (F8)         Sandy Redox (S5)       Redox Depressions (F8)         Stripped Matrix (S6)       Red Parent Material (F21)         Dark Surface (S7) (LRR R, MLRA 149B)       Very Shallow Dark Surface (TF12)         Dark Surface (S7) (LRR R, MLRA 149B)       Mesic Spodic (TA6) (MLRA 144A, 145, 145)         Sandy Redox (S5)       Red Parent Material (F21)         Stripped Matrix (S6)       Red Parent Material (F21)         Dark Surface (S7) (LRR R, MLRA 149B)       Very Shallow Dark Surface (TF12)         Dark Surface (S7) (LRR R, MLRA 149B)       Very Shallow Dark Surface (TF12)         Dark Surface (S7) (LRR R, MLRA	Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains.       2Location: PL = Pore Lining, M = Matrix.         Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         ol (A1)      Polyvalue Below Surface (S8) (LRR R, MLRA 149B)         Epipedon (A2)      Thin Dark Surface (S9) (LRR R, MLRA 149B)         Histic (A3)      Loamy Mucky Mineral (F1) (LRR K, L)         gen Sulfide (A4)      Loamy Gleyed Matrix (F2)         ied Layers (A5)      Depleted Matrix (F3)         Dark Surface (A12)      Depleted Dark Surface (F6)         Dark Surface (A12)      Depleted Dark Surface (F7)         Mucky Mineral (S1)      Redox Depressions (F8)         Gleyed Matrix (S6)      Piedmont Floodplain Soils (F19) (MLRA 149B)         Surface (S7) (LRR R, MLRA 149B)	e: C = Concentration, D = E ric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surfa Fhick Dark Surface (A12) Sandy Mucky Mineral (S1)	Depletion, RM = Reduce Polyvalue B Thin Dark S Loamy Muc Loamy Gley Depleted M ce (A11) ✓ Redox Dark	ed Matrix, MS = Below Surface ( Surface (S9) <b>(LR</b> cky Mineral (F1) yed Matrix (F2)		cation: PL = Pore Lining, M = Matrix. Indicators for Problematic Hydric Soils <sup>3</sup> : 2 cm Muck (A10) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R)
Indicators:       Indicators in Journal (All)       Polyvalue Below Surface (S8) (LRR R, MLRA 149B)         Histosol (A1)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       2 cm Muck (A10) (LRR K, L, MLRA 149B)         Black Histic (A3)       Loamy Mucky Mineral (F1) (LRR K, L)       Coast Prairie Redox (A16) (LRR K, L, R)         Hydrogen Sulfide (A4)       Loamy Gleyed Matrix (F2)       Depleted Matrix (F3)       Depleted Matrix (F3)         Depleted Below Dark Surface (A11)       Redox Dark Surface (F6)       Thin Dark Surface (F7)       Thin Dark Surface (S9) (LRR K, L)         Sandy Mucky Mineral (S1)       Redox Depressions (F8)       Iron-Manganese Masses (F12) (LRR K, L, P)         Sandy Redox (S5)       Stripped Matrix (S6)       Piedmont Floodplain Soils (F19) (MLRA 1445, 145)         Dark Surface (S7) (LRR R, MLRA 149B)       Mesic Spodic (TA6) (MLRA 144A, 145, 145)         Licators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.       Other (Explain in Remarks)         Licators of hydrophytic vegetation and wetland hydrology must be present?       Yes No	il Indicators:       Indicators (o)       Polyvalue Below Surface (S8) (LRR R, MLRA 149B)         Epipedon (A2)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       2 cm Muck (A10) (LRR K, L, MLRA 149B)         Histic (A3)       Loamy Mucky Mineral (F1) (LRR K, L)       5 cm Mucky Peat or Peat (S3) (LRR K, L, R)         gen Sulfide (A4)       Loamy Gleyed Matrix (F2)       Depleted Matrix (F3)       Depleted Matrix (F3)         ted Below Dark Surface (A11)       Redox Dark Surface (F6)       Thin Dark Surface (F7)       Thin Dark Surface (F3)         Mucky Mineral (S1)       Redox Depressions (F8)       Piedmont Floodplain Soils (F12) (LRR K, L, R)         Gleyed Matrix (S4)       Redox CS5)       Mesic Spodic (TA6) (MLRA 1449B)         S of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.       Very Shallow Dark Surface (TF12)         Type:       None       Hydric Soil Present?       Yes _ No	ric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surfa Fhick Dark Surface (A12) Sandy Mucky Mineral (S1)	Polyvalue E Thin Dark S Loamy Muc Loamy Gley Depleted M ce (A11) _ ✓ Redox Dark	Below Surface ( Surface (S9) <b>(LR</b> cky Mineral (F1) yed Matrix (F2)	S8) (LRR R, MLRA 149B) R R, MLRA 149B) ) (LRR K, L)	Indicators for Problematic Hydric Soils <sup>3</sup> : 2 cm Muck (A10) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R)
Histosol (A1) Polyvalue Below Surface (S8) (LRR R, MLRA 149B) Histic Epipedon (A2) Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Stratified Layers (A5) Depleted Matrix (F3) Depleted Below Dark Surface (A11) Redox Dark Surface (F6)<br Thick Dark Surface (A12) Depleted Dark Surface (F7) Sandy Mucky Mineral (S1) Redox Depressions (F8) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) icators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Type: None Hydric Soil Present? Yes No	ol (A1)      Polyvalue Below Surface (S8) (LRR R, MLRA 149B)         Epipedon (A2)      Thin Dark Surface (S9) (LRR R, MLRA 149B)         Histic (A3)      Loamy Mucky Mineral (F1) (LRR K, L)         gen Sulfide (A4)      Loamy Gleyed Matrix (F2)         ied Layers (A5)      Depleted Matrix (F3)         ted Below Dark Surface (A11) ✓ Redox Dark Surface (F6)         Dark Surface (A12)      Depleted Dark Surface (F7)         Mucky Mineral (S1)      Redox Depressions (F8)         Gleyed Matrix (S4)      Redox C55)         ed Matrix (S6)	Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surfa Fhick Dark Surface (A12) Sandy Mucky Mineral (S1)	Polyvalue B Thin Dark S Loamy Muc Loamy Gley Depleted M ce (A11) <u>✓</u> Redox Dark	Below Surface ( Surface (S9) <b>(LR</b> cky Mineral (F1) yed Matrix (F2)	S8) (LRR R, MLRA 149B) R R, MLRA 149B) ) (LRR K, L)	2 cm Muck (A10) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R)
Histic Epipedon (A2)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       2 Const Prairie Redox (A16) (LRR K, L, R)         Black Histic (A3)       Loamy Mucky Mineral (F1) (LRR K, L)       Coast Prairie Redox (A16) (LRR K, L, R)         Hydrogen Sulfide (A4)       Loamy Gleyed Matrix (F2)       Dark Surface (S7) (LRR K, L)       S cm Mucky Peat or Peat (S3) (LRR K, L)         Stratified Layers (A5)       Depleted Matrix (F3)       Dark Surface (S7) (LRR K, L)       Dark Surface (S7) (LRR K, L)         Depleted Below Dark Surface (A11)       Redox Dark Surface (F6)       Thin Dark Surface (F7)       Thin Dark Surface (S9) (LRR K, L)         Sandy Mucky Mineral (S1)       Redox Depressions (F8)       Thin Dark Surface (T46) (MLRA 144A, 145, 145         Sandy Redox (S5)       Redox Depressions (F8)       Nesic Spodic (TA6) (MLRA 144A, 145, 145         Stripped Matrix (S6)	Epipedon (A2)	Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surfa Fhick Dark Surface (A12) Sandy Mucky Mineral (S1)	Thin Dark S Loamy Muc Loamy Gley Depleted M ce (A11)_ ✓ Redox Dark	Surface (S9) <b>(LR</b> cky Mineral (F1) yed Matrix (F2)	R R, MLRA 149B) ) (LRR K, L)	Coast Prairie Redox (A16) (LRR K, L, R)
Black Histic (A3)      Loamy Mucky Mineral (F1) (LRR K, L)      S cm Mucky Peat or Peat (S3) (LRR K, L, F         Hydrogen Sulfide (A4)      Loamy Gleyed Matrix (F2)      S cm Mucky Peat or Peat (S3) (LRR K, L, F         Stratified Layers (A5)      Depleted Matrix (F3)      D Depleted Matrix (F3)         Depleted Below Dark Surface (A11)      Redox Dark Surface (F6)	Histic (A3)Loamy Mucky Mineral (F1) (LRR K, L)5 cm Mucky Peat or Peat (S3) (LRR K, L, R) gen Sulfide (A4)Loamy Gleyed Matrix (F2)Dark Surface (S7) (LRR K, L)Dark Surface (S7) (LRR K, L)Dark Surface (S7) (LRR K, L)Dark Surface (S9) (LRR K, L, R)Depleted Dark Surface (F7)Depleted Dark Surface (F7)Depleted Dark Depressions (F8)Depleted Dark Surface (F7)Depleted Dark Surface (S9) (LRR K, L, R)Depleted Dark Surface (S7) (LRR K, L, R)Depleted Dark Surface (F7)Depleted Dark Surface (S7) (LRR K, L, R)Depleted Dark Surface (F7)Depleted Dark Surface (S7) (LRR K, L, R)Depleted Dark Surface (F7)Depleted Dark Surface (S7) (LRR K, L, R)Depleted Dark Surface (S7) (LRR K, L, R)	Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surfa Thick Dark Surface (A12) Sandy Mucky Mineral (S1)	Loamy Muc Loamy Gley Depleted M ce (A11) Redox Dark	cky Mineral (F1) yed Matrix (F2)	) (LRR K, L)	
Hydrogen Sulfide (A4)      Loamy Gleyed Matrix (F2)      Dark Surface (S7) (LRR K, L)         Stratified Layers (A5)      Depleted Matrix (F3)      Dark Surface (S7) (LRR K, L)         Depleted Below Dark Surface (A11)       Redox Dark Surface (F6)      Thin Dark Surface (S9) (LRR K, L)         Thick Dark Surface (A12)      Depleted Dark Surface (F7)      Thin Dark Surface (S9) (LRR K, L)         Sandy Mucky Mineral (S1)      Redox Depressions (F8)      Iron-Manganese Masses (F12) (LRR K, L, Piedmont Floodplain Soils (F19) (MLRA 1         Sandy Redox (S5)	gen Sulfide (A4)      Loamy Gleyed Matrix (F2)      Dark Surface (S7) (LRR K, L)         ied Layers (A5)      Depleted Matrix (F3)      Polyvalue Below Surface (S8) (LRR K, L)         ted Below Dark Surface (A11) /      Redox Dark Surface (F6)      Thin Dark Surface (S9) (LRR K, L)         Dark Surface (A12)      Depleted Dark Surface (F7)      Iron-Manganese Masses (F12) (LRR K, L, R)         Mucky Mineral (S1)      Redox Depressions (F8)      Nesic Spodic (TA6) (MLRA 1449E)         Gleyed Matrix (S4)      Nesic Spodic (TA6) (MLRA 144A, 145, 149B)         Redox (S5)      Red Parent Material (F21)         ed Matrix (S6)      Very Shallow Dark Surface (TF12)         Surface (S7) (LRR R, MLRA 149B)      Other (Explain in Remarks)         s of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.	Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surfa Thick Dark Surface (A12) Sandy Mucky Mineral (S1)	Loamy Gley Depleted № ce (A11)⁄ Redox Dark	yed Matrix (F2)		5 cm Mucky Peat or Peat (S3) <b>(LRR K, L, R)</b>
Stratified Layers (AS)	led Layers (A5)	Depleted Below Dark Surfa Thick Dark Surface (A12) Sandy Mucky Mineral (S1)	ce (A11)_✓ Redox Dark	A - today (EQ)		Dark Surface (S7) (LRR K, L)
Depleted below Dark Surface (A12)	Dark Surface (A12)	Thick Dark Surface (A12) Sandy Mucky Mineral (S1)	ce (ATT) · Redux Darr	latrix (F3)		Polyvalue Below Surface (S8) (LRR K, L)
Index Dark Surface (172)	Mucky Mineral (S1)	Sandy Mucky Mineral (S1)	Depleted D	k Sufface (F6) Jark Surface (F7	7)	Thin Dark Surface (S9) (LRR K, L)
Sandy Gleyed Matrix (S4)	Gleyed Matrix (S4)		Bepleted D Redox Dep	ressions (F8)		Iron-Manganese Masses (F12) (LRR K, L, R)
Sandy Redox (S5)	Redox (S5)	Sandy Gleved Matrix (S4)				Piedmont Floodplain Soils (F19) (MLRA 149B)
Stripped Matrix (S6)Red Parent Material (F21)   Dark Surface (S7) (LRR R, MLRA 149B)Very Shallow Dark Surface (TF12)   dicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.   trictive Layer (if observed):   Type:   None   Hydric Soil Present?    Yes No	Matrix (S6)	Sandy Redox (S5)				Mesic Spodic (TA6) <b>(MLRA 144A, 145, 149B)</b>
Dark Surface (S7) (LRR R, MLRA 149B) <u>icators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.</u> trictive Layer (if observed): Type: None Hydric Soil Present? Yes No	Surface (S7) (LRR R, MLRA 149B)	Stripped Matrix (S6)				Red Parent Material (F21)
Outer (cxptain in Remarks)         dicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.         trictive Layer (if observed):         Type:       None         Hydric Soil Present?       Yes _∠_ No	s of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.  Layer (if observed): Type:NoneHydric Soil Present? Yes _∠_ No Depth (inches):	Dark Surface (S7) <b>(LRR R, M</b>	LRA 149B)			Very Shallow Dark Surface (TF12)
trictive Layer (if observed): Type:None	s of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.  a Layer (if observed): Type:None					
Type:None Hydric Soil Present? Yes _∠_ No	Type:None Hydric Soil Present? Yes _∠_ No Depth (inches):	icators of hydrophytic vege	etation and wetland hy	drology must t	oe present, unless disturbed I	d or problematic.
rype. None Hydric soil Present? Tes _ No	Depth (inches):	Turner	None		Lludric Coil Drocont?	Vac ( Na
	Depth (inches):	Type:	None	-	Hydric Soll Present?	Yes _ Z No
Depth (inches):		Depth (inches):				

Vegetation Photos





Photo of Sample Plot North



Photo of Sample Plot East



Photo of Sample Plot South



Photo of Sample Plot West

# WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Riverside Solar	City/County: Chaumont, Jeff	erson	Sampling Date: 202	20-June-04
Applicant/Owner: Geronimo		State: NY	Sampling Point: W-N	SD-09_UPL-1
Investigator(s): Nick DeJohn, Other, Ben	Popham Sec	tion, Township, Range:		
Landform (hillslope, terrace, etc.): Fla	Local relief	(concave, convex, none):	Undulating	Slope (%): 1 to 3
Subregion (LRR or MLRA): LRR R	Lat:	44.0643953719 Long	-76.0993267224	Datum: WGS84
Soil Map Unit Name:			NWI classificatio	n:
Are climatic/hydrologic conditions on the s	ite typical for this time of year?	Yes 🟒 No (If n	o, explain in Remarks.)	
Are Vegetation, Soil, or Hy	drology significantly disturbed?	Are "Normal Circums	stances" present?	Yes 🟒 No
Are Vegetation, Soil, or Hy	drology naturally problematic?	(If needed, explain a	ny answers in Remarks	.)

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

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

### HYDROLOGY

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

VEGETATION -- Use scientific names of plants.

Sampling Point: W-NSD-09\_UPL-1

Tree Stratum (Plot size: <u>30 ft</u> )	Absolute	Dominant	Indicator	Dominance Test works	heet:		
	% Cover	Species?	Status	Are OBL EACW or EAC	pecies That	1	(A)
1.				Total Number of Domir	Nant Snecies		
2.				Across All Strata:	iune species	3	(B)
3				Percent of Dominant S	pecies That		
4.				Are OBL, FACW, or FAC		33.3	(A/B)
5.				Prevalence Index work	sheet:		
6.				- <u>Total % Cover</u>	<u>of:</u>	<u>Multiply</u>	<u>By:</u>
7		<u> </u>		- OBL species	0	x 1 =	0
	0	= Total Cov	er	FACW species	30	x 2 =	60
Sapling/Shrub Stratum (Plot size: <u>15 ft</u> )				FAC species	0	x 3 =	0
1				- FACU species	65	x 4 =	260
2				- UPL species	0	x 5 =	0
3				- Column Totals	95	(A)	320 (B)
4				- Prevalence Ir	ndex = B/A =	34	320 (8)
5							
6				Hydropnyuc vegetation	Indicators:	logotation	
7				1- Rapid Test for r		regetation	
	0	= Total Cov	er	2 - Dominance re	SUIS > 50%		
<u>Herb Stratum</u> (Plot size: <u>5 ft</u> )		-		3 - Prevalence ind	$ ex   S \leq 3.0'$	(Duessiele	
1. Phleum pratense	40	Yes	FACU	4 - Morphological	Adaptations	(Provide	supporting
2. Phalaris arundinacea	30	Yes	FACW	Problematic Hydr	onbytic Vege	tation <sup>1</sup> (Ex	(nlain)
3. <i>Poa pratensis</i>	25	Yes	FACU	Froblematic right	il and wotlan		gy must bo
4.		· ·		nresent unless disturb	ed or probler	matic	gy must be
5.				Definitions of Vegetation	n Strata	hadie	
6.				Tree - Woody plants 3	(7.6  cm) or	r more in	diameter at
7.		· ·		breast height (DBH), re	gardless of h	eight.	
8		<u> </u>		Sanling/shruh - Woody	nlants less ti	han 3 in T	)BH and
9		<u> </u>		greater than or equal t	o 3.28 ft (1 m	) tall.	birana
10		·		Herb – All herbaceous	(non-woody)	, plants, re	gardless of
11		<u> </u>		size, and woody plants	less than 3.2	8 ft tall.	
12		<u> </u>		Woody vines – All wood	dy vines great	ter than 3	.28 ft in
12		Tabal Car		height.			
	95	= lotal Cov	er	Hydrophytic Vegetatio	n Present?	(es N	10 1
<u>Woody Vine Stratum</u> (Plot size: <u>30 ft</u> )							
1.		·		-			
2				-			
3				-			
4				_			
	0	= Total Cov	er				
Remarks: (Include photo numbers here or on a separa	ate sheet.)						

SOIL

## Sampling Point: W-NSD-09\_UPL-1

Contraction and	Matrix		Redox	Feat	ures				
inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture		Remarks
0 - 12	10YR 3/2	95	7.5YR 4/6	5	С	Μ	Silty Clay Lo	bam	
	-								
vpe: C = C	oncentration, D = [	Depleti	on, RM = Reduced	d Mat	rix, MS =	Masked Sand Gr	ains. <sup>2</sup> Loca	tion: PL = Por	e Lining, M = Matrix.
dric Soil I	ndicators:		,		1			ndicators for P	Problematic Hydric Soils <sup>3</sup> :
Histosol	(A1)		Polvvalue Be	low S	urface (S	8) (LRR R. MLRA	149B)	2 cm Muck	
_ Histic Ep	pipedon (A2)		Thin Dark Su	irface	(S9) (LRR	R, MLRA 149B)		_ 2 Cm Wuck	(A10) (LKR K, L, MLKA 149B)
_ Black Hi	stic (A3)		Loamy Muck	y Mir	neral (F1)	(LRR K, L)	-	5 cm Much	Peat or Peat (S3) (LRR K, L, K)
_ Hydroge	en Sulfide (A4)		Loamy Gleye	ed Ma	trix (F2)		-	Dark Surfac	re(S7) (I RR K 1)
_ Stratified	d Layers (A5)		Depleted Ma	itrix (l	F3)		-	Polvvalue B	elow Surface (S8) (LRR K. L)
_ Depleted	d Below Dark Surfa	ce (A11	) 🗸 Redox Dark	Surfa	ce (F6)		-	Thin Dark S	urface (S9) <b>(LRR K, L)</b>
_ Thick Da	irk Surface (A12)		Depleted Da	rk Su	rface (F7)		_	 Iron-Manga	inese Masses (F12) (LRR K, L, R)
_ Sandy M	lucky Mineral (ST)		Redox Depre	essior	1S (F8)		_	Piedmont F	loodplain Soils (F19) (MLRA 149B)
_ Sandy G	leyed Matrix (S4)						_	Mesic Spod	ic (TA6) <b>(MLRA 144A, 145, 149B)</b>
_ Sandy R	edox (S5)						_	Red Parent	Material (F21)
_ Stripped	1 Matrix (S6)		0D)				-	Very Shallo	w Dark Surface (TF12)
	riace (S7) <b>(LKK K, W</b>	ILKA 14	9B)				-	Other (Expl	ain in Remarks)
_ Dark Su				rolog	y must be	e present, unless	disturbed o	or problematic	•
_ Dark Su ndicators o	of hydrophytic vege	etation	and wetland hyd	· · · O.	,	-			
_ Dark Sundicators of the second seco	of hydrophytic veg ayer (if observed):	etation	and wetland hyd		,			•	
_ Dark Sundicators (	of hydrophytic veg .ayer (if observed): Type:	etation	and wetland hyd Compaction		,	Hydric Soil Pres	sent?	·	Yes No
_ Dark Sundicators (	of hydrophytic vega . <b>ayer (if observed):</b> Type: Depth (inches):	etation	and wetland hyd Compaction 12	_	<u>,                                     </u>	Hydric Soil Pres	sent?		Yes No
_ Dark Sui	of hydrophytic vega . <b>ayer (if observed):</b> Type: Depth (inches):	etation	and wetland hyd Compaction 12	-	<u>,                                     </u>	Hydric Soil Pres	sent?		Yes No
_ Dark Su ndicators ( strictive L marks:	of hydrophytic vega . <b>ayer (if observed):</b> Type: Depth (inches):	etation	and wetland hyd Compaction 12			Hydric Soil Pres	sent?		Yes No
_ Dark Su ndicators ( strictive L marks:	of hydrophytic vege . <b>ayer (if observed):</b> Type: Depth (inches):	etation	and wetland hyd Compaction 12	-	<u>,                                     </u>	Hydric Soil Pres	sent?		Yes No
_ Dark Su dicators ( strictive L marks:	of hydrophytic vega .ayer (if observed): Type: Depth (inches):	<u></u>	and wetland hyd Compaction 12	-		Hydric Soil Pres	sent?		Yes No
_ Dark Su dicators ( strictive L marks:	of hydrophytic vega .ayer (if observed): Type: Depth (inches):	<u></u>	and wetland hyd <u>Compaction</u> 12			Hydric Soil Pres	sent?		Yes No
_ Dark Su dicators ( strictive L marks:	of hydrophytic vega .ayer (if observed): Type: Depth (inches):	<u></u>	and wetland hyd <u>Compaction</u> 12		<u>,                                     </u>	Hydric Soil Pres	sent?		Yes No
_ Dark Su dicators ( strictive L marks:	of hydrophytic vega ayer (if observed): Type: Depth (inches):		and wetland hyd <u>Compaction</u> 12			Hydric Soil Pres	sent?		Yes No
_ Dark Su dicators ( strictive L marks:	of hydrophytic veg .ayer (if observed): Type: Depth (inches):	<u></u>	and wetland hyd Compaction 12			Hydric Soil Pres	sent?		Yes No
_ Dark Su dicators ( strictive L marks:	of hydrophytic vega . <b>ayer (if observed):</b> Type: Depth (inches):	<u></u>	and wetland hyd Compaction 12			Hydric Soil Pres	sent?		Yes No
mark Su estrictive L	of hydrophytic vega .ayer (if observed): Type: Depth (inches):	<u></u>	and wetland hyd Compaction 12			Hydric Soil Pres	sent?		Yes No
_ Dark Su dicators ( strictive L marks:	of hydrophytic vega . <b>ayer (if observed):</b> Type: Depth (inches):	<u></u>	and wetland hyd Compaction 12			Hydric Soil Pres	sent?		Yes No
_ Dark Su dicators strictive L marks:	of hydrophytic vega . <b>ayer (if observed):</b> Type: Depth (inches):	<u></u>	and wetland hyd Compaction 12			Hydric Soil Pres	sent?		Yes No
_ Dark Su	of hydrophytic vega . <b>ayer (if observed):</b> Type: <u>Depth (inches):</u>	<u></u>	and wetland hyd Compaction 12			Hydric Soil Pres	sent?		Yes No
_ Dark Su hdicators ( estrictive L emarks:	of hydrophytic vega . <b>ayer (if observed):</b> Type: <u>Depth (inches):</u>	<u></u>	and wetland hyd Compaction 12			Hydric Soil Pres	sent?		Yes No
Dark Su ndicators estrictive L  emarks:	of hydrophytic vega . <b>ayer (if observed):</b> Type: Depth (inches):	<u></u>	and wetland hyd Compaction 12			Hydric Soil Pres	sent?		Yes No
_ Dark Su ndicators estrictive L emarks:	of hydrophytic vega .ayer (if observed): Type: Depth (inches):		and wetland hyd Compaction 12			Hydric Soil Pres	sent?		Yes No
_ Dark Su ndicators estrictive L emarks:	of hydrophytic vega .ayer (if observed): Type: Depth (inches):		and wetland hyd Compaction 12			Hydric Soil Pres	sent?		Yes No
_ Dark Su ndicators ( estrictive L marks:	of hydrophytic vega .ayer (if observed): Type: Depth (inches):	<u></u>	and wetland hyd Compaction 12			Hydric Soil Pres	sent?		Yes No
_ Dark Su ndicators ( estrictive L emarks:	of hydrophytic vega .ayer (if observed): Type: Depth (inches):	<u></u>	and wetland hyd Compaction 12			Hydric Soil Pres	sent?		Yes No
Vegetation Photos



Soil Photos

Photo of Sample Plot North



Photo of Sample Plot East



Photo of Sample Plot South



Photo of Sample Plot West

# WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Riverside	e Solar		City/County: C	haumont,	Jeffe	rson		Sampling Date	: 2020-	June-04
Applicant/Owner:	ieronimo					State: NY		Sampling Point:	W-NSD	-10_PEM-1
Investigator(s): Nick	DeJohn, Othei	r, Ben Popham			Sect	ion, Township, Ra	nge:			
Landform (hillslope, te	rrace, etc.):	Depression		Local re	elief	(concave, convex	, none):	Undulating		5lope (%): 0 to 1
Subregion (LRR or MLF	RA): LRR F	R			Lat:	44.0662429529	Long:	-76.0958177225	D	atum: WGS84
Soil Map Unit Name:	VeBVergen	nes silty clay loa	m, 3 to 8 percer	nt slopes				NWI classifi	ication:	
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 (	Circums	tances" present?	Ye	s _ 🖌 No
Are Vegetation,	Soil,	or Hydrology	naturally pro	oblematic?	2	(If needed, ex	plain ar	ny answers in Rem	narks.)	

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

Hydrophytic Vegetation Present?	Yes 🟒 No		
Hydric Soil Present?	Yes 🟒 No	Is the Sampled Area within a Wetland?	Yes 🟒 No _
Wetland Hydrology Present?	Yes 🟒 No	If yes, optional Wetland Site ID:	W-NSD-10
Remarks: (Explain alternative procedur	es here or in a separate re	port)	
Covertype is PEM.			

#### HYDROLOGY

Wetland Hydrology Indicators:			
Primary Indicators (minimum of on	e is required; check all that apply)	Secondary Indicators (minimum of two requ	uired)
<ul> <li> Surface Water (A1)</li> <li> High Water Table (A2)</li> <li>✓ Saturation (A3)</li> <li> Water Marks (B1)</li> <li> Sediment Deposits (B2)</li> </ul>	Water-Stained Leaves (B9) Aquatic Fauna (B13) Marl Deposits (B15) Hydrogen Sulfide Odor (C <sup>2</sup> Oxidized Rhizospheres on	<ul> <li>(9) Surface Soil Cracks (B6)  Drainage Patterns (B10)  Moss Trim Lines (B16)  Dry-Season Water Table (C2)</li> <li>(C1) Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C9)</li> </ul>	)
Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Ima Sparsely Vegetated Concave Sur	Presence of Reduced Iron Recent Iron Reduction in T Thin Muck Surface (C7) gery (B7) Other (Explain in Remarks) face (B8)	n (C4) Stunted or Stressed Plants (D1) n Tilled Soils (C6) Geomorphic Position (D2) Shallow Aquitard (D3) ks) Microtopographic Relief (D4) FAC-Neutral Test (D5)	,
Field Observations:			
Surface Water Present?	Yes No Depth (inches):	25):	
Water Table Present?	Yes No Depth (inches):	es): Wetland Hydrology Present? Yes 🧹	No
Saturation Present?	Yes 🟒 No Depth (inches):	2S): 1	
(includes capillary fringe)			
Describe Recorded Data (stream ga	uge, monitoring well, aerial photos, previo	ious inspections), if available:	

VEGETATION -- Use scientific names of plants.

Sampling Point: W-NSD-10\_PEM-1

1.	0	 _= Total Co       	ver FACW	<ul> <li>Are OBL, FACW, or FAC</li> <li>Total Number of Dom</li> <li>Across All Strata:</li> <li>Percent of Dominant S</li> <li>Are OBL, FACW, or FAC</li> <li>Prevalence Index worl</li> <li><u>Total % Cover</u></li> <li>OBL species</li> <li>FACW species</li> <li>FACU species</li> <li>FACU species</li> <li>Golumn Totals</li> <li><u>Prevalence Index totals</u></li> <li><u>Prevalence Index Cover</u></li> <li>ACU species</li> <li>Total % Cover</li> <li>ACU species</li> <li>FACU species</li> <li>Golumn Totals</li> <li><u>Prevalence Index Cover</u></li> <li><u>ACU Species</u></li> <li>ACU species</li> <li>Column Totals</li> <li><u>Prevalence Index Cover</u></li> <li><u>ACU Species</u></li> <li>Are OBL Species</li> <li>Column Totals</li> <li><u>Prevalence Index Cover</u></li> <li><u>ACU Species</u></li> <li>A - Morphologica</li> </ul>	C: inant Species Species That C: ksheet: r of: 0 85 0 10 0 95 Index = B/A = phydrophytic V est is >50% idex is $\leq 3.0^1$	3 100 Multiply x 1 = x 2 = x 3 = x 4 = (A) 2.2 /egetation	(A) (B) (A/B) By: 0 170 0 40 0 210 (B)
2.	0	 _= Total Co       	ver FACW	<ul> <li>Total Number of Dom</li> <li>Across All Strata:</li> <li>Percent of Dominant S</li> <li>Are OBL, FACW, or FAC</li> <li>Prevalence Index worl</li> <li><u>Total % Cover</u></li> <li>OBL species</li> <li>FACW species</li> <li>FACU species</li> <li>FACU species</li> <li>UPL species</li> <li>Column Totals</li> <li>Prevalence I</li> <li>Hydrophytic Vegetation</li> <li>1 - Rapid Test for</li> <li>2 - Dominance Te</li> <li>3 - Prevalence In</li> <li>4 - Morphologica</li> </ul>	inant Species Species That C: ksheet: r of: 0 85 0 10 0 95 Index = B/A = on Indicators: Hydrophytic V est is >50% idex is $\leq 3.01$	3 100 Multiply x 1 = x 2 = x 3 = x 4 = (A) 2.2 /egetation	(B) (A/B) <b>By:</b> 0 170 0 40 0 210 (B)
3.	0	= Total Co	ver FACW	<ul> <li>Percent of Dominant S</li> <li>Are OBL, FACW, or FAC</li> <li>Prevalence Index worl</li> <li><u>Total % Cover</u></li> <li>OBL species</li> <li>FACW species</li> <li>FAC species</li> <li>FACU species</li> <li>QUPL species</li> <li>Column Totals</li> <li><u>Prevalence I</u></li> <li>Hydrophytic Vegetation</li> <li>1 - Rapid Test for</li> <li>2 - Dominance Teg</li> <li>3 - Prevalence In</li> <li>4 - Morphologica</li> </ul>	Species That C: ksheet: rof: 0 85 0 10 0 95 Index = B/A = point Indicators: Hydrophytic V est is >50% idex is $\leq 3.01$	100 Multiply x 1 =	(A/B) By: 0 170 0 40 0 210 (B)
5.	0	Total Co	ver ver FACW	<ul> <li>Prevalence Index worl</li> <li><u>Total % Cover</u></li> <li>OBL species</li> <li>FACW species</li> <li>FAC species</li> <li>FACU species</li> <li>Column Totals</li> <li><u>Prevalence I</u></li> <li>Hydrophytic Vegetation</li> <li> 1- Rapid Test for</li> <li> 2 - Dominance Teget</li> <li> 3 - Prevalence In</li> <li> 4 - Morphologica</li> </ul>	ksheet: r of: 0 85 0 10 95 Index = $B/A =$ pn Indicators: Hydrophytic V est is >50% idex is $\leq 3.0^1$	Multiply x 1 = x 2 = x 3 = x 4 = x 5 = (A) 2.2 /egetation	By: 0 170 0 40 0 210 (B)
6.	0	_= Total Co	ver ver FACW	<ul> <li><u>Total % Cover</u></li> <li>OBL species</li> <li>FACW species</li> <li>FAC species</li> <li>FACU species</li> <li>UPL species</li> <li>Column Totals</li> <li><u>Prevalence I</u></li> <li>Hydrophytic Vegetation</li> <li> 1- Rapid Test for</li> <li> 2 - Dominance Teget</li> <li> 3 - Prevalence In</li> <li> 4 - Morphologica</li> </ul>	$r of:$ 0 85 0 10 0 95 Index = B/A = Hydrophytic V est is >50% dex is $\leq 3.0^{1}$	Multiply x 1 = x 2 = x 3 = x 4 = (A) 2.2 /egetation	By: 0 170 0 40 0 210 (B)
7.	0	_= Total Co	ver ver FACW	<ul> <li>OBL species</li> <li>FACW species</li> <li>FAC species</li> <li>FACU species</li> <li>UPL species</li> <li>Column Totals</li> <li>Prevalence I</li> <li>Hydrophytic Vegetation</li> <li>✓ 1- Rapid Test for</li> <li>✓ 2 - Dominance Test</li> <li>✓ 3 - Prevalence In</li> <li>✓ 4 - Morphologica</li> </ul>	0 85 0 10 95 Index = $B/A =$ on Indicators: Hydrophytic V est is >50% idex is $\leq 3.0^1$	$\begin{array}{c} x 1 = \\ x 2 = \\ x 3 = \\ x 4 = \\ x 5 = \\ (A) \\ 2.2 \end{array}$	0 170 0 40 0 210 (B)
Sapling/Shrub Stratum (Plot size:15 ft)         1.         2.         3.         4.         5.         6.         7.         Herb Stratum (Plot size:5 ft)         1.         Carex annectens         2.         Phalaris arundinacea         3.         Carex bromoides	0	_= Total Co	ver	<ul> <li>OBL Species</li> <li>FACW species</li> <li>FAC species</li> <li>FACU species</li> <li>UPL species</li> <li>Column Totals</li> <li>Prevalence I</li> <li>Hydrophytic Vegetation</li> <li>✓ 1- Rapid Test for</li> <li>✓ 2 - Dominance Te</li> <li>✓ 3 - Prevalence In</li> <li>✓ 4 - Morphologica</li> </ul>	0 $85$ $0$ $10$ $0$ $95$ Index = B/A = 0 on Indicators: Hydrophytic V est is >50% dex is $\leq 3.0^{10}$	x 1 = x 2 = x 3 = x 4 = x 5 = (A) 2.2	0 170 0 40 0 210 (B)
Sapling/Shrub Stratum (Plot size:15 ft)	0	     	ver	<ul> <li>FACW species</li> <li>FAC species</li> <li>FACU species</li> <li>UPL species</li> <li>Column Totals</li> <li>Prevalence I</li> <li>Hydrophytic Vegetation</li> <li>✓ 1- Rapid Test for</li> <li>✓ 2 - Dominance Te</li> <li>✓ 3 - Prevalence In</li> <li>✓ 4 - Morphologica</li> </ul>	$\frac{85}{0}$ $\frac{10}{95}$ Index = B/A = on Indicators: Hydrophytic V test is >50% idex is $\leq 3.0^{1}$	x 2 = x 3 = x 4 = (A) 2.2	0 40 0 210 (B)
1.	0	      	ver	FAC species         FACU species         UPL species         Column Totals         Prevalence I         Hydrophytic Vegetation         ✓       1- Rapid Test for         ✓       2 - Dominance Tegetalence In         ✓       3 - Prevalence In         ✓       4 - Morphological	$0$ 10 0 95 Index = B/A = 0 Indicators: Hydrophytic V iest is >50% dex is $\leq 3.0^{1}$	x 3 = x 4 = x 5 = (A) 2.2	0 40 0 210 (B)
2.	0	      	ver FACW	<ul> <li>FACU species</li> <li>UPL species</li> <li>Column Totals</li> <li>Prevalence I</li> <li>Hydrophytic Vegetation</li> <li>1 - Rapid Test for</li> <li>2 - Dominance Tege3 - Prevalence In</li> <li>4 - Morphologica</li> </ul>	$10$ 0 95 Index = B/A = 0 Indicators: Hydrophytic V iest is >50% dex is $\leq 3.0^{1}$	x 4 = x 5 = (A) 2.2 /egetation	40 0 210 (B)
2.	0	  _= Total Co 	ver	<ul> <li>UPL species</li> <li>Column Totals</li> <li>Prevalence I</li> <li>Hydrophytic Vegetation</li> <li>1 - Rapid Test for</li> <li>2 - Dominance Tege3 - Prevalence In</li> <li>4 - Morphological</li> </ul>	$0$ 95 Index = B/A = 0 Indicators: Hydrophytic V est is >50% Idex is $\leq 3.0^{1}$	x 5 = (A) 2.2 /egetation	0 210 (B)
3.	0	 = Total Co Yes	ver	<ul> <li>Column Totals</li> <li>Prevalence I</li> <li>Hydrophytic Vegetatio</li> <li> 1- Rapid Test for</li> <li> 2 - Dominance Tegeta</li> <li> 3 - Prevalence In</li> <li> 4 - Morphologica</li> </ul>	95 Index = $B/A =$ on Indicators: Hydrophytic V test is >50% Idex is $\leq 3.0^1$	(A) 2.2 /egetation	210 (B)
4.	0 40 25	= Total Co Yes	ver FACW	<ul> <li>Prevalence I</li> <li>Hydrophytic Vegetatio</li> <li> 1- Rapid Test for</li> <li> 2 - Dominance Te</li> <li> 3 - Prevalence In</li> <li> 4 - Morphologica</li> </ul>	Index = $B/A =$ on Indicators: Hydrophytic V fest is >50% Idex is $\leq 3.0^1$	2.2 /egetation	
5.	0 40 25	= Total Co Yes	ver FACW	<ul> <li>Hydrophytic Vegetatio</li> <li>_ 1- Rapid Test for</li> <li>_ 2 - Dominance Te</li> <li>_ 3 - Prevalence In</li> <li>_ 4 - Morphologica</li> </ul>	on Indicators: Hydrophytic V est is >50% Idex is $\leq 3.0^1$	/egetation	
6.	0	= Total Co Yes	ver FACW	<ul> <li>I - Rapid Test for</li> <li>I - Rapid Test for</li> <li>I - Dominance Te</li> <li>I - Prevalence In</li> <li>I - Morphologica</li> </ul>	Hydrophytic V est is >50% Idex is $\leq 3.0^{1}$	/egetation	
7.	0 40 25	= Total Co Yes	ver FACW	- ∠ 2 - Dominance Te ∠ 3 - Prevalence In _ 4 - Morphologica	est is >50% idex is $\leq 3.0^1$	-8	
Herb Stratum (Plot size: _5 ft_)	0 40 25	= Total Co Yes	ver FACW	3 - Prevalence In 4 - Morphologica	idex is $\leq 3.0^1$		
Herb Stratum (Plot size:5 ft)         1. Carex annectens         2. Phalaris arundinacea         3. Carex bromoides	40	Yes	FACW	4 - Morphologica	$d \leq 15 \leq 5.0$		
1. Carex annectens         2. Phalaris arundinacea         3. Carex bromoides	40 25	Yes	FACW	4 - Morphologica		1 (Drovida	supporting
2. Phalaris arundinacea         3. Carex bromoides	25			<ul> <li>data in Remarks or on</li> </ul>	a senarate sh		supporting
3. Carex bromoides	25	Yes	FACW	Problematic Hyd	Ironhytic Vege	tation <sup>1</sup> (Ex	nlain)
	20	Yes	FACW	1Indicators of hydric se	oil and wetlan	d hydrolo	ov must he
4. Dactylis glomerata	10	No	FACU	present, unless distur	bed or proble	matic	gy must be
5.				Definitions of Vegetati	ion Strata:		
6.				Tree - Woody plants 3	in (7.6 cm) or	r more in i	diameter at
7.				breast height (DBH), re	egardless of h	eight.	
8				Sapling/shrub - Wood	ly plants less t	han 3 in. [	OBH and
9				greater than or equal	to 3.28 ft (1 m	) tall.	Diruna
10				Herb – All herbaceous	s (non-woody)	plants, reg	zardless of
11					s less than 3.2	8 ft tall.	
10				- Woody vines - All woo	ody vines great	ter than 3.	.28 ft in
12				height.	, .		
	95	= lotal Co	ver	Hydrophytic Vegetati	on Present?		lo
<u>Woody Vine Stratum</u> (Plot size: <u>30 ft</u> )				ingui opingue vegeuu	on resent.	ics <u>v</u> i	
1				-			
2				_			
3				_			
4							
	0	= Total Co	ver				

SOIL

vepth	Matrix	o the u	Redox	Feat	ures			13.)
inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup> Te	xture	Remarks
0 - 13	10YR 3/1	95	5YR 3/4	5	С	M Silty C	lay Loam	
13 - 18	10YR 4/1	95	7.5YR 4/6	5	С	M Clay	/ Loam	
· ·								
· .								
		·						
·		- <u></u> .				<u> </u>		
pe: C = C	oncentration, D = I	Depleti	on, RM = Reduced	d Mat	rix, MS =	Masked Sand Grains.	<sup>2</sup> Location: PL = Pore	Lining, M = Matrix.
dric Soil I	ndicators:						Indicators for Pr	oblematic Hydric Soils <sup>3</sup> :
HISTOSOL	(A1)		Polyvalue Be	now S	urtace (S ממוו <i>ו</i> וגסט	א) (LKK K, MLKA 149B) אין אין אין אין אין אין אין אין אין אין	2 cm Muck (#	A10) <b>(LRR K, L, MLRA 149B)</b>
Black Hi	stic (A3)		Loamy Muck	v Mir	(39) <b>(EKK</b> neral (F1)	(IRRK.I)	Coast Prairie	Redox (A16) <b>(LRR K, L, R)</b>
Hydroge	en Sulfide (A4)		Loamy Gleye	ed Ma	trix (F2)	(, _)	5 cm Mucky	Peat or Peat (S3) (LRR K, L, R)
Stratified	d Layers (A5)		Depleted Ma	trix (l	F3)		Dark Surface	e (S7) (LKK K, L) Now Surface (S8) (LPD K, L)
Depleted	d Below Dark Surfa	ce (A11	) Redox Dark	Surfa	ce (F6)		Thin Dark Su	
Thick Da	irk Surface (A12)		Depleted Da	rk Su	rface (F7)		Iron-Mangar	nese Masses (F12) (LRR K, L, R)
Sandy M	lucky Mineral (S1)		Redox Depre	essior	ıs (F8)		Piedmont Flo	podplain Soils (F19) (MLRA 149B)
	loved Matrix (S/I)							
_ Sandy G							Mesic Spodic	: (TA6) <b>(MLRA 144A, 145, 149B)</b>
_ Sandy G _ Sandy Re	edox (S5)						Mesic Spodic Red Parent N	c (TA6) <b>(MLRA 144A, 145, 149B)</b> /Jaterial (F21)
_ Sandy G _ Sandy Re _ Stripped	edox (S5) I Matrix (S6) rface (S7) <b>(LRR R, M</b>	II RA 1 <i>4</i>	98)				Red Parent N Red Parent N Very Shallow	c (TA6) <b>(MLRA 144A, 145, 149B)</b> Material (F21) v Dark Surface (TF12)
_ Sandy G _ Sandy Re _ Stripped _ Dark Sur	edox (S5) I Matrix (S6) rface (S7) <b>(LRR R, N</b>	ILRA 14	9B)				Mesic Spodic Red Parent N Very Shallow Other (Expla	: (TA6) <b>(MLRA 144A, 145, 149B)</b> Aaterial (F21) <sup>,</sup> Dark Surface (TF12) in in Remarks)
_ Sandy G _ Sandy R _ Stripped _ Dark Sur dicators c	edox (S5) I Matrix (S6) rface (S7) <b>(LRR R, M</b> of hydrophytic veg	ILRA 14 etation	<b>9B)</b> and wetland hyd	rolog	y must be	e present, unless distur	Mesic Spoke Red Parent N Very Shallow Other (Expla bed or problematic.	: (TA6) <b>(MLRA 144A, 145, 149B)</b> Aaterial (F21) r Dark Surface (TF12) in in Remarks)
_ Sandy G _ Sandy R _ Stripped _ Dark Sur dicators c strictive L	edox (S5) I Matrix (S6) rface (S7) <b>(LRR R, M</b> <u>of hydrophytic veg</u> <b>.ayer (if observed):</b>	ILRA 14	<b>9B)</b> and wetland hyd	rolog	y must be	e present, unless distur	Mesic Spoke Red Parent N Very Shallow Other (Expla bed or problematic.	: (TA6) <b>(MLRA 144A, 145, 149B)</b> Aaterial (F21) v Dark Surface (TF12) in in Remarks)
Sandy G Sandy R Stripped Dark Sur dicators c	edox (S5) I Matrix (S6) rface (S7) <b>(LRR R, M</b> of hydrophytic veg a <b>yer (if observed):</b> Type:	ILRA 14	<b>9B)</b> and wetland hyd None	rolog	y must be	e present, unless distur Hydric Soil Present?	Mesic Spoke Red Parent N Very Shallow Other (Expla bed or problematic.	E (TA6) <b>(MLRA 144A, 145, 149B)</b> Material (F21) I Dark Surface (TF12) in in Remarks) Yes∕ No
Sandy G Sandy R Stripped Dark Sur dicators c strictive L	edox (S5) I Matrix (S6) rface (S7) <b>(LRR R, M</b> of hydrophytic veg <b>.ayer (if observed):</b> Type: Depth (inches):	ILRA 14	<b>9B)</b> and wetland hyd None	rolog	y must be	e present, unless distur Hydric Soil Present?	Mesic Spodic Red Parent N Very Shallow Other (Expla bed or problematic.	E (TA6) <b>(MLRA 144A, 145, 149B)</b> Material (F21) 9 Dark Surface (TF12) in in Remarks) Yes No
Sandy G Sandy R Stripped Dark Sur dicators c strictive L marks:	edox (S5) I Matrix (S6) rface (S7) <b>(LRR R, N</b> of hydrophytic veg <b>.ayer (if observed):</b> Type: Depth (inches):	ILRA 14	<b>9B)</b> and wetland hyd None	rolog -	y must be	e present, unless distur Hydric Soil Present?	Mesic Spoke Red Parent N Very Shallow Other (Expla bed or problematic.	: (TA6) <b>(MLRA 144A, 145, 149B)</b> Material (F21) r Dark Surface (TF12) in in Remarks) Yes No
Sandy G Sandy R Stripped Dark Sur dicators c trictive L narks:	edox (S5) I Matrix (S6) rface (S7) <b>(LRR R, M</b> of hydrophytic veg a <b>yer (if observed):</b> Type: Depth (inches):	ILRA 14	<b>9B)</b> and wetland hyd None	rolog	y must be	e present, unless distur Hydric Soil Present?	Mesic Spodic Red Parent N Very Shallow Other (Expla bed or problematic.	: (TA6) <b>(MLRA 144A, 145, 149B)</b> Material (F21) r Dark Surface (TF12) in in Remarks) Yes No
Sandy G Sandy R Stripped Dark Sur dicators c strictive L narks:	edox (S5) I Matrix (S6) rface (S7) <b>(LRR R, M</b> of hydrophytic veg a <b>yer (if observed):</b> Type: Depth (inches):	etation	<b>9B)</b> and wetland hyd None	rolog	y must be	e present, unless distur Hydric Soil Present?	Mesic Spoke Red Parent N Very Shallow Other (Expla bed or problematic.	: (TA6) <b>(MLRA 144A, 145, 149B)</b> Material (F21) I Dark Surface (TF12) in in Remarks) Yes No
Sandy G Sandy R Stripped Dark Sur dicators o trictive L narks:	edox (S5) I Matrix (S6) rface (S7) <b>(LRR R, M</b> <u>of hydrophytic veg</u> <b>.ayer (if observed):</b> Type: Depth (inches):	ILRA 14	<b>9B)</b> and wetland hyd None	rolog	y must be	e present, unless distur Hydric Soil Present?	Mesic Spodic Red Parent N Very Shallow Other (Expla bed or problematic.	E (TA6) <b>(MLRA 144A, 145, 149B)</b> Material (F21) I Dark Surface (TF12) in in Remarks) Yes No
Sandy G Sandy R Stripped Dark Su dicators o trictive L narks:	edox (S5) I Matrix (S6) rface (S7) <b>(LRR R, M</b> of hydrophytic veg ayer (if observed): Type: Depth (inches):	etation	<b>9B)</b> and wetland hyd None	rolog	y must be	e present, unless distur Hydric Soil Present?	Mesic Spoke Red Parent N Very Shallow Other (Expla bed or problematic.	E (TA6) <b>(MLRA 144A, 145, 149B)</b> Material (F21) I Dark Surface (TF12) in in Remarks) Yes _✔_ No
Sandy G Sandy R Stripped Dark Su dicators o trictive L narks:	edox (S5) I Matrix (S6) rface (S7) <b>(LRR R, M</b> of hydrophytic veg ayer (if observed): Type: Depth (inches):	ILRA 14	9 <b>B)</b> and wetland hyd None	rolog -	y must be	e present, unless distur Hydric Soil Present?	Mesic Spokic Red Parent N Very Shallow Other (Expla bed or problematic.	E (TA6) <b>(MLRA 144A, 145, 149B)</b> Material (F21) I Dark Surface (TF12) in in Remarks) Yes _✓_ No
Sandy G Sandy R Stripped Dark Sur dicators o trictive L narks:	edox (S5) I Matrix (S6) rface (S7) <b>(LRR R, M</b> of hydrophytic veg <b>.ayer (if observed):</b> Type: Depth (inches):	etation	9 <b>B)</b> and wetland hyd None	rolog	y must be	e present, unless distur Hydric Soil Present?	Mesic Spodic Red Parent N Very Shallow Other (Expla bed or problematic.	E (TA6) <b>(MLRA 144A, 145, 149B)</b> Material (F21) I Dark Surface (TF12) in in Remarks) Yes No
Sandy G Sandy R Stripped Dark Sur dicators o trictive L narks:	edox (S5) I Matrix (S6) rface (S7) <b>(LRR R, W</b> of hydrophytic veg a <b>yer (if observed):</b> Type: Depth (inches):	ILRA 14	9B) and wetland hyd None	rolog	y must be	e present, unless distur Hydric Soil Present?	Mesic Spodic Red Parent N Very Shallow Other (Expla bed or problematic.	E (TA6) <b>(MLRA 144A, 145, 149B)</b> Material (F21) Poark Surface (TF12) in in Remarks) Yes <u>V</u> No <u></u>
Sandy G Sandy R Stripped Dark Sur dicators o trictive L narks:	edox (S5) I Matrix (S6) rface (S7) <b>(LRR R, M</b> of hydrophytic veg a <b>yer (if observed):</b> Type: Depth (inches):	LRA 14	9B) and wetland hyd None	rolog -	y must be	e present, unless distur Hydric Soil Present?	Mesic Spoke Red Parent N Very Shallow Other (Expla bed or problematic.	E (TA6) <b>(MLRA 144A, 145, 149B)</b> Material (F21) I Dark Surface (TF12) in in Remarks) Yes _ ✓ _ No
Sandy G Sandy R Stripped Dark Sur dicators o trictive L	edox (S5) I Matrix (S6) rface (S7) <b>(LRR R, M</b> <u>of hydrophytic veg</u> <b>.ayer (if observed):</b> Type: Depth (inches):	ILRA 14	9B) and wetland hyd None	-	y must be	e present, unless distur Hydric Soil Present?	Mesic Spodic Red Parent N Very Shallow Other (Expla bed or problematic.	E (TA6) <b>(MLRA 144A, 145, 149B)</b> Material (F21) I Dark Surface (TF12) in in Remarks) Yes No
Sandy G Sandy R Stripped Dark Sur dicators c trictive L marks:	edox (S5) I Matrix (S6) rface (S7) <b>(LRR R, M</b> <u>of hydrophytic veg</u> <b>.ayer (if observed):</b> Type: Depth (inches):	ILRA 14	9B) and wetland hyd None	rolog	y must be	e present, unless distur Hydric Soil Present?	Mesic Spoke Red Parent N Very Shallow Other (Expla bed or problematic.	E (TA6) <b>(MLRA 144A, 145, 149B)</b> Material (F21) I Dark Surface (TF12) in in Remarks) Yes _✔_ No
Sandy G Sandy R Stripped Dark Sur dicators of strictive L marks:	edox (S5) I Matrix (S6) rface (S7) <b>(LRR R, M</b> <u>of hydrophytic veg</u> <b>.ayer (if observed):</b> Type: Depth (inches):	ILRA 14	9B) and wetland hyd None	rolog	y must be	e present, unless distur Hydric Soil Present?	Mesic Spodic Red Parent N Very Shallow Other (Expla bed or problematic.	E (TA6) (MLRA 144A, 145, 149B) Material (F21) I Dark Surface (TF12) in in Remarks) Yes _✓_ No
_Sandy G _Sandy R _Stripped _Dark Su dicators o strictive L 	edox (S5) I Matrix (S6) rface (S7) <b>(LRR R, M</b> of hydrophytic veg <b>ayer (if observed):</b> Type: Depth (inches):	etation	9B) and wetland hyd None	rolog	y must be	e present, unless distur Hydric Soil Present?	Mesic Spoke Red Parent N Very Shallow Other (Expla bed or problematic.	E (TA6) <b>(MLRA 144A, 145, 149B)</b> Material (F21) I Dark Surface (TF12) in in Remarks) Yes _✓_ No
_ Sandy G _ Sandy R _ Stripped _ Dark Su dicators o strictive L 	edox (S5) I Matrix (S6) rface (S7) <b>(LRR R, M</b> of hydrophytic vege <b>.ayer (if observed):</b> Type: Depth (inches):	etation	9B) and wetland hyd None	rolog	y must be	e present, unless distur Hydric Soil Present?	Mesic Spoke Red Parent N Very Shallow Other (Expla bed or problematic.	E (TA6) (MLRA 144A, 145, 149B) Material (F21) I Dark Surface (TF12) in in Remarks) Yes _✓_ No
_ Sandy G _ Sandy R _ Stripped _ Dark Sur dicators o strictive L 	edox (S5) il Matrix (S6) rface (S7) <b>(LRR R, M</b> of hydrophytic vege <b>.ayer (if observed):</b> Type: Depth (inches):	etation	9B) and wetland hyd None	-	y must be	e present, unless distur Hydric Soil Present?	Mesic Spodic Red Parent N Very Shallow Other (Expla bed or problematic.	E (TA6) (MLRA 144A, 145, 149B) Material (F21) ( Dark Surface (TF12) in in Remarks) Yes∕_ No
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Vegetation Photos



Soil Photos



Photo of Sample Plot North Photo of Sample Plot East



Photo of Sample Plot South



Photo of Sample Plot West



# WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Riverside Solar	City/County: Chaumont, Jefferson	Sampling Date: 2020-June-04						
Applicant/Owner: Geronimo	State: NY	Sampling Point: W-NSD-10_PFO-2						
Investigator(s): Nick DeJohn, Other, Ben Popha	m Section, Township, Range:							
Landform (hillslope, terrace, etc.): Swamp	Local relief (concave, convex, none)	Undulating Slope (%): 1 to 3						
Subregion (LRR or MLRA): LRR R	Lat: 44.0663193539 Long	-76.0944693257 Datum: WGS84						
Soil Map Unit Name: LRR R Kingsbury silty clay	, 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	y significantly disturbed? Are "Normal Circums	stances" present? Yes 🟒 No						
Are Vegetation, Soil, or Hydrology	y naturally problematic? (If needed, explain a	וץ answers in Remarks.)						

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

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

#### HYDROLOGY

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

# VEGETATION -- Use scientific names of plants.

### Sampling Point: W-NSD-10\_PFO-2

% Cover       Species?       Status       Number of Dominant Species Inat       5       (A)         1.       Carya ovata       40       Yes       FACU       Are OBL, FACW, or FAC:       5       (A)         2.       Quercus bicolor       25       Yes       FACW       Total Number of Dominant Species       6       (B)         3.       Acer rubrum       10       No       FAC       Percent of Dominant Species That       83.3       (A/B)         5.
1. Carya ovata       40       Yes       FACU       Are oble, FACW, of FAC.         2. Quercus bicolor       25       Yes       FACW       Total Number of Dominant Species       6       (B)         3. Acer rubrum       10       No       FAC       Percent of Dominant Species That Are OBL, FACW, or FAC:       83.3       (A/B)         5.
2.       Quercus bicolor       25       Yes       FACW       Total Number of Dominant Species       6       (B)         3.       Acer rubrum       10       No       FAC       Percent of Dominant Species That Are OBL, FACW, or FAC:       83.3       (A/B)         5.
3.       Acer rubrum       10       No       FAC       Percent of Dominant Species That Are OBL, FACW, or FAC:       83.3       (A/B)         5.
4.
5.
6.       Total % Cover of:       Multiply By:         7.
7. $1000 \text{ markspired}$ Sapling/Shrub Stratum (Plot size: 15 ft ) $75 = \text{Total Cover}$ 1. $Carpinus caroliniana$ $30 \text{ Yes}$ 2. $Ostrya virginiana$ $30 \text{ Yes}$ 3. $FACU$ 4. $$
75       = Total Cover       FACW species       90       x 2 =       180         1. Carpinus caroliniana       30       Yes       FAC       FAC species       40       x 3 =       120         2. Ostrya virginiana       30       Yes       FAC       FACU       Vecies       52       x 4 =       208         3.
Sapling/Shrub Stratum (Plot size: _15 ft_)       1. Carpinus caroliniana       30       Yes       FAC         1. Carpinus caroliniana       30       Yes       FAC         2. Ostrya virginiana       5       No       FACU         3.
1. Carpinus caroliniana       30       Yes       FAC       FACU       FAC       UPL species       0       x 5 =       0       Column Totals       182       (A)       508       (B)       FAC       FAC
2.       Ostrya virginiana       5       No       FACU       UPL species       5       0       x 5 =       0         3.
3.
4.          Column lotals         182         (A)         508         (B)           5.         Prevalence Index = B/A =          Prevalence Index = B/A =
Prevalence Index = B/A =
6 Hydrophytic Vegetation Indicators:
7 1- Rapid Test for Hydrophytic Vegetation
·····································
Herb Stratum (Plot cize: Eft.) $23.0^{1}$
1 Anomono canadonsis
data in Remarks or on a separate sheet)
2. <u>Carex intumescens</u> <u>20</u> <u>res</u> <u>FACW</u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
3. <u>Impatients caperisis</u> <u>15</u> Yes <u>FACW</u> Indicators of hydric soil and wetland hydrology must be
4. <u>Podophyllum peitatum</u> / No FACU present, unless disturbed or problematic
5 Definitions of Vegetation Strata:
6 Tree – Woody plants 3 in. (7.6 cm) or more in diameter at
7 breast height (DBH), regardless of height.
8 Sapling/shrub – Woody plants less than 3 in. DBH and
9 greater than or equal to 3.28 ft (1 m) tall.
10. Herb – All herbaceous (non-woody) plants, regardless of
11 Size, and woody plants less than 5.26 it tail.
12 woody vines a Air woody vines greater trian 5.28 it in
72 = Total Cover
Woody Vine Stratum (Plot size: <u>30 ft</u> ) Hydrophytic Vegetation Present? Yes 🗸 No
1
2.
3.
4.
0 = Total Cover
Demarker (Include photo numbers here or on a constate sheet )
r kemarks: (include photo numbers here or on a separate sneet.)

SOIL

### Sampling Point: W-NSD-10\_PFO-2

inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Text	ture	Remarks
0 - 5	10YR 3/2	100					Silty Cla	ay Loam	
5 - 18	10YR 4/1	90	7.5YR 4/4	10	С	М	Clay	Loam	
				·					
				·					
				·					
ne <sup>.</sup> C =	Concentration D =	Denletic	n RM = Reducer	. <u> </u>	rix MS =	Masked Sa	and Grains 21	ocation: PL = Por	elining M = Matrix
Iric Soil	Indicators:	Depictic		Innaci	1, 113	WINDSREED SE		Indicators for P	roblematic Hydric Soils <sup>3</sup> :
Histosc	(A1)		Polvvalue Be	low S	urface (S	8) (LRR R.	MLRA 149B)		
Histic E	pipedon (A2)		Thin Dark Su	irface	(S9) (LRR	R, MLRA 1	149B)	Coast Prairi	e Redox (A16) (I RR K   R)
Black H	listic (A3)		Loamy Muck	y Min	eral (F1)	(LRR K, L)		5 cm Mucky	Peat or Peat (S3) (LRR K. L. R)
Hydrog	en Sulfide (A4)		Loamy Gleye	d Ma	trix (F2)			Dark Surfac	e (S7) (LRR K, L)
Stratifie	ed Layers (A5) ad Balaw Dark Surf	aco (A11	Depleted Ma	itrix (F	-3) -a (E6)			Polyvalue B	elow Surface (S8) <b>(LRR K, L)</b>
Thick D	ark Surface (A12)		Depleted Da	rk Sur	face (FO)			Thin Dark S	urface (S9) <b>(LRR K, L)</b>
				occior	(EQ)			Iron-Manga	nese Masses (F12) (LRR K, L, R)
_Sandy I	Mucky Mineral (S1)		Redox Depre	522101	15 (FO)				
Sandy I Sandy (	Mucky Mineral (S1) Gleyed Matrix (S4)		Redox Depre	255101	IS (FO)			Piedmont F	loodplain Soils (F19) <b>(MLRA 149B)</b>
_ Sandy I _ Sandy ( _ Sandy	Mucky Mineral (S1) Gleyed Matrix (S4) Redox (S5)		Redox Depre	255101	IS (FO)			Piedmont F Mesic Spod	loodplain Soils (F19) <b>(MLRA 149B)</b> ic (TA6) <b>(MLRA 144A, 145, 149B)</b> Material (F21)
_ Sandy I _ Sandy ( _ Sandy I _ Strippe	Mucky Mineral (S1) Gleyed Matrix (S4) Redox (S5) d Matrix (S6)		Redox Depre	255101	15 (FO)			Piedmont F Mesic Spod Red Parent Very Shallov	loodplain Soils (F19) <b>(MLRA 149B)</b> ic (TA6) <b>(MLRA 144A, 145, 149B)</b> Material (F21) w Dark Surface (TF12)
_ Sandy I _ Sandy I _ Sandy I _ Strippe _ Dark Su	Mucky Mineral (S1) Gleyed Matrix (S4) Redox (S5) Id Matrix (S6) urface (S7) <b>(LRR R, I</b>	VILRA 14	Redox Depre	ession	IS (FO)			Piedmont F Mesic Spod Red Parent Very Shallor Other (Expl	loodplain Soils (F19) <b>(MLRA 149B)</b> ic (TA6) <b>(MLRA 144A, 145, 149B)</b> Material (F21) w Dark Surface (TF12) ain in Remarks)
_Sandy I _Sandy I _Sandy I _Strippe _Dark Su dicators	Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) <b>(LRR R, I</b> of hydrophytic vej	<b>VLRA 14</b> zetation	Redox Depre 9B) and wetland hyd	rology	y must be	e present,	unless disturb	Piedmont F Mesic Spod Red Parent Very Shallor Other (Expl ed or problematic	loodplain Soils (F19) <b>(MLRA 149B)</b> ic (TA6) <b>(MLRA 144A, 145, 149B)</b> Material (F21) w Dark Surface (TF12) ain in Remarks)
_Sandy I _Sandy ( _Sandy l _Strippe _Dark Su dicators strictive	Mucky Mineral (ST) Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) (LRR R, I of hydrophytic veg Layer (if observed)	<b>VLRA 14</b> <u>zetation</u> :	Redox Depre 9B) and wetland hyd	rology	y must be	e present,	unless disturb	Piedmont F Mesic Spod Red Parent Very Shallor Other (Expl. ed or problematic	loodplain Soils (F19) <b>(MLRA 149B)</b> ic (TA6) <b>(MLRA 144A, 145, 149B)</b> Material (F21) w Dark Surface (TF12) ain in Remarks)
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Sandy I Sandy ( Sandy I Strippe Dark Si dicators strictive	Mucky Mineral (ST) Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) <b>(LRR R, I</b> of hydrophytic veg Layer (if observed) Type: Depth (inches):	MLRA 14 getation I:	Redox Depre 9B) and wetland hyd None	rology	y must be	e present, Hydric So	unless disturbo bil Present?	Piedmont F Mesic Spod Red Parent Very Shallor Other (Expl. ed or problematic	loodplain Soils (F19) <b>(MLRA 149B)</b> ic (TA6) <b>(MLRA 144A, 145, 149B)</b> Material (F21) w Dark Surface (TF12) ain in Remarks)  Yes No
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Sandy ( Sandy ( Sandy ( Strippe Dark St dicators strictive	Mucky Mineral (ST) Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) (LRR R, I of hydrophytic veg Layer (if observed) Type: 	MLRA 14 getation I:	Redox Depre 9B) and wetland hyd None	rolog	y must be	e present, Hydric So	unless disturb bil Present?	Piedmont F Mesic Spod Red Parent Very Shallor Other (Expl ed or problematic	loodplain Soils (F19) <b>(MLRA 149B</b> ) ic (TA6) <b>(MLRA 144A, 145, 149B)</b> Material (F21) <i>w</i> Dark Surface (TF12) ain in Remarks)  YesNo
_ Sandy ( _ Sandy ( _ Sandy ( _ Strippe _ Dark Si dicators strictive marks:	Mucky Mineral (ST) Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) (LRR R, I of hydrophytic veg Layer (if observed) Type: 	MLRA 14 getation I:	Redox Depre 9B) and wetland hyd None	<u>rolog</u>	y must be	e present, Hydric So	unless disturb bil Present?	Piedmont F Mesic Spod Red Parent Very Shallor Other (Expl. ed or problematic	loodplain Soils (F19) (MLRA 149B) ic (TA6) (MLRA 144A, 145, 149B) Material (F21) w Dark Surface (TF12) ain in Remarks)  YesNo
_ Sandy f _ Sandy f _ Sandy f _ Strippe _ Dark St dicators strictive marks:	Mucky Mineral (ST) Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) (LRR R, I of hydrophytic veg Layer (if observed) Type: 	MLRA 14 getation ::	Redox Depre 9B) None	rolog,	y must be	e present, Hydric So	unless disturb bil Present?	Piedmont F Mesic Spod Red Parent Very Shalloo Other (Expl ed or problematic	loodplain Soils (F19) <b>(MLRA 149B</b> ) ic (TA6) <b>(MLRA 144A, 145, 149B)</b> Material (F21) w Dark Surface (TF12) ain in Remarks)  Yes No
_ Sandy ( _ Sandy ( _ Sandy ( _ Strippe _ Dark Su dicators strictive marks:	Mucky Mineral (ST) Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) (LRR R, I of hydrophytic vea Layer (if observed) Type: 	MLRA 14 getation I:	Redox Depre	rolog,	y must be	e present, Hydric So	unless disturb Dil Present?	Piedmont F Mesic Spod Red Parent Very Shalloo Other (Expl ed or problematic	loodplain Soils (F19) (MLRA 149B) ic (TA6) (MLRA 144A, 145, 149B) Material (F21) w Dark Surface (TF12) ain in Remarks)  YesNo
Sandy I Sandy ( Sandy I Strippe Dark Su dicators strictive	Mucky Mineral (ST) Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) (LRR R, I of hydrophytic veg Layer (if observed) Type: 	MLRA 14 getation ):	Redox Depre 9B) and wetland hyd None	rolog	<u>y must be</u>	e present, Hydric So	unless disturb bil Present?	Piedmont F Mesic Spod Red Parent Very Shallor Other (Expl ed or problematic	loodplain Soils (F19) (MLRA 149B) ic (TA6) (MLRA 144A, 145, 149B) Material (F21) w Dark Surface (TF12) ain in Remarks) Yes No

Vegetation Photos



Soil Photos

Photo of Sample Plot North



Photo of Sample Plot East Photo of Sample Plot South



Photo of Sample Plot West

# WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Riverside Solar	City/County:	Chaumont, Jefferson	Sampling Date:	2020-June-04				
Applicant/Owner: Geronimo		State: NY	Sampling Point:	W-NSD-10_UPL-1				
Investigator(s): Nick DeJohn, Oth	er, Ben Popham	Section, Township, Ra	ange:					
Landform (hillslope, terrace, etc.):	Flat	Local relief (concave, convex	<b>, none):</b> Undulating	Slope (%): 0 to 1				
Subregion (LRR or MLRA):	R	Lat: 44.066133569	Long: -76.0956475698	Datum: WGS84				
Soil Map Unit Name: VeBVerge	nnes silty clay loam, 3 to 8 perce	ent slopes	NWI classific	ation:				
Are climatic/hydrologic conditions on the site typical for this time of year? Yes 🖌 No (If no, explain in Remarks.)								
Are Vegetation, Soil,	or Hydrology significantly	y disturbed? Are "Normal	Circumstances" present?	Yes 🟒 No				
Are Vegetation, Soil,	or Hydrology naturally pr	roblematic? (If needed, ex	kplain any answers in Rem	arks.)				

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

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

#### HYDROLOGY

Wetland Hydrology Indicators:				
Primary Indicators (minimum of on	e is required; check all	<u>that apply)</u>	Secondary Indicators (minimum o	of two required)
Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2)	Water Aquati Marl D Hydro Oxidiz	-Stained Leaves (B9) ic Fauna (B13) Deposits (B15) gen Sulfide Odor (C1) ed Rhizospheres on Living Roots (C3)	<ul> <li>Surface Soil Cracks (B6)</li> <li>Drainage Patterns (B10)</li> <li>Moss Trim Lines (B16)</li> <li>Dry-Season Water Table (C2)</li> <li>Crayfish Burrows (C8)</li> <li>Saturation Visible on Aerial Im</li> </ul>	nagery (C9)
Drift Deposits (B3)     Algal Mat or Crust (B4)     Iron Deposits (B5)     Inundation Visible on Aerial Ima     Sparsely Vegetated Concave Sur	Preser Recen Thin M gery (B7) Other rface (B8)	nce of Reduced Iron (C4) t Iron Reduction in Tilled Soils (C6) Iuck Surface (C7) (Explain in Remarks)	<ul> <li>Stunted or Stressed Plants (D1</li> <li>Geomorphic Position (D2)</li> <li>Shallow Aquitard (D3)</li> <li>Microtopographic Relief (D4)</li> <li>FAC-Neutral Test (D5)</li> </ul>	1)
Field Observations:				
Surface Water Present?	Yes No 🟒	Depth (inches):		
Water Table Present?	Yes No 🟒	Depth (inches):	Wetland Hydrology Present?	Yes No 🟒
Saturation Present?	Yes No 🟒	Depth (inches):		
(includes capillary fringe)			_	
Describe Recorded Data (stream ga	auge, monitoring well, a	erial photos, previous inspections), i	f available:	

VEGETATION -- Use scientific names of plants.

### Sampling Point: W-NSD-10\_UPL-1

Tree Stratum (Plot size:30 ft)	Absolute	Dominant	Indicator	Dominance Test works	heet:		
	% Cover	species:		Are OBL_EACW_or FAC		1	(A)
1. Carya ovata	15	Yes	FACU	Total Number of Domin	hant Species		
2		<u> </u>		Across All Strata:	iune opeeleo	3	(B)
3		<u> </u>		Percent of Dominant S	pecies That		(1 (2)
4.		<u> </u>		Are OBL, FACW, or FAC		33.3	(A/B)
5		<u> </u>		Prevalence Index work	sheet:		
6.		·		Total % Cover	<u>of:</u>	<u>Multiply</u>	<u>By:</u>
/				OBL species	0	x 1 =	0
	15	= lotal Cov	er	FACW species	40	x 2 =	80
Sapling/Shrub Stratum (Plot size:15 ft)				FAC species	0	x 3 =	0
1		·		FACU species	70	x 4 =	280
2		·		UPL species	0	x 5 =	0
3		·		Column Totals	110	(A)	360 (B)
4.		·		Prevalence Ir	ndex = B/A =	3.3	
5		·		Hydrophytic Vegetation	Indicators:		
6.		·		1- Rapid Test for H	Hydrophytic V	egetation	
7		<u> </u>		2 - Dominance Te	st is > 50%	0	
	0	= Total Cov	er	3 - Prevalence Ind	lex is $\leq 3.0^1$		
Herb Stratum (Plot size: <u>5 ft</u> )				4 - Morphological	Adaptations <sup>1</sup>	(Provide	supporting
1. <i>Phalaris arundinacea</i>	40	Yes	FACW	data in Remarks or on	a separate sh	ieet)	
2. Dactylis glomerata	30	Yes	FACU	Problematic Hydr	ophytic Vege	tation <sup>1</sup> (Ex	plain)
3. <i>Taraxacum officinale</i>	10	No	FACU	<sup>1</sup> Indicators of hydric so	il and wetlan	d hydrolog	gy must be
4. <i>Trifolium pratense</i>	10	No	FACU	present, unless disturb	ed or probler	matic	
5. <u>Vicia americana</u>	5	No	FACU	Definitions of Vegetation	on Strata:		
6				Tree – Woody plants 3	in. (7.6 cm) or	more in o	diameter at
7				breast height (DBH), re	gardless of h	eight.	
8				Sapling/shrub – Woody	plants less t	han 3 in. D	OBH and
9				greater than or equal t	o 3.28 ft (1 m	) tall.	
10				Herb – All herbaceous	(non-woody)	plants, reg	gardless of
11				size, and woody plants	less than 3.2	8 ft tall.	20.6.1
12				woody vines – All wood	dy vines great	er than 3.	28 ft in
	95	= Total Cov	er				
Woody Vine Stratum (Plot size: <u>30 ft</u> )				Hydrophytic Vegetatio	n Present?	/es N	lo 🟒
1							
2							
3							
4							
	0	= Total Cov	er				
Remarks: (Include photo numbers here or on a separat	e sheet.)						

SOIL

### Sampling Point: W-NSD-10\_UPL-1

0.8       10YR 4/2       100	10YR 4/2       100       Clay Loam         Clay Loam       Clay Loam         Clay Loamy Mucky Mineral (F1) (LRR K, L)       Coast Prairie Redox (A16) (LRR K, L)         Coast Prairie Redox (A16) (LRR K, L)       Coast Prairie Redox (A16) (LRR K, L)         Coast Prairie Redox (A16) (LRR K, L)       Coast Prairie Redox (A16) (LRR K, L)         Clay Coast Prairie Redox (A16) (LRR K, L)       Coast Prairie Redox (A16) (LRR K, L)         Clay Coast Prairie Redox Charle (S3) (LR       Dark Surface (S3) (LR         Clay Coast Prairie Redox Charle (S1)       Coast Prairie Redox (A16) (LR K, L)         Coast Prairie Redox	Is <sup>3</sup> :
per C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains.       *Location: PL = Pore Lining, M = Matrix.         Indicators for Problematic Hydric Soils?       Indicators for Problematic Hydric Soils?         Histic Epipedon (A2)       Thin Dark Surface (S8) (LRR R, MLRA 1499)         Histic Epipedon (A2)       Thin Dark Surface (S8) (LRR K, LI MICR K, L)         Hydrogen Suffice (A3)       Loarny Mucky Minera (11) (LRR K, L)         Depleted Matrix (F2)       Depleted Matrix (F2)         Jondy Mucky Minera (11)       Redox Dark Surface (F6)         Thick Dark Surface (A12)       Depleted Dark Surface (F6)         Sandy Gleyed Matrix (F3)       Pedremating Matrix (F3)         Sandy Gleyed Matrix (F3)       Pedremating Matrix (F3)         Sandy Gleyed Matrix (F3)       Redox Depressions (F8)         Sandy Relox (S5)       Red Parent Matria (F1)         Stripped Matrix (S6)       Vertices (F12)         Dark Surface (S7) (LRR R, LI A 1498)       Vertices (F12)         Matrix (S6)       Vertices (S10)         Type:       Compaction         Yppe:       Compaction         Wertice Law (A14)       No Law (A16) (LRR K, LI MA 1498)         Matrix (S6)       Vertice Law (A16) (LRR K, LI MA 145, HI M	Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains.          2 Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains.       2Location: PL = Pore Lining, M = Matrix.         Soil Indicators:       Indicators for Problematic Hydric Soils         2 cpipedon (A2)	ls <sup>3</sup> :
arristic Soll Indicators	Image: Second structure       Image: Second structure       Image: Second structure         Image: Second structure       Image: Second structure       Image: Second structure         Image: Second structure       Image: Second structure       Image: Second structure         Image: Second structure       Image: Second structure       Image: Second structure         Image: Second structure       Image: Second structure       Image: Second structure         Image: Second structure       Image: Second structure       Image: Second structure         Image: Second structure       Image: Second structure       Image: Second structure         Image: Second structure       Image: Second structure       Image: Second structure         Image: Second structure       Image: Second structure       Image: Second structure         Image: Second structure       Image: Second structure       Image: Second structure         Image: Second structure       Image: Second structure       Image: Second structure         Image: Second structure       Image: Second structure       Image: Second structure       Image: Second structure         Image: Second structure       Image: Second structure       Image: Second structure       Image: Second structure       Image: Second structure         Image: Second structure       Image: Second structure       Image: Second structure       Image: Second	ls <sup>3</sup> :
we: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains.       = Location: PL = Pore Lining, M = Matrix,         ric Soil Indicators:       Indicators for Problematic Hydric Soils:         Histos (A)	Image: Second contraction, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. <sup>2</sup> Location: PL = Pore Lining, M = Matrix.         Indicators:       Indicators:         Disol (A1)       Polyvalue Below Surface (S8) (LRR R, MLRA 149B)         Ic Epipedon (A2)       Thin Dark Surface (S9) (LRR R, MLRA 149B)         K Histic (A3)       Loamy Mucky Mineral (F1) (LRR K, L)         rogen Sulfide (A4)       Loamy Gleyed Matrix (F2)         Iffied Layers (A5)       Depleted Matrix (F3)         Ieted Below Dark Surface (A11)       Redox Dark Surface (F6)         Ic Dark Surface (A11)       Depleted Park Surface (F2)	Is <sup>3</sup> :
ie: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains.       *Location: PL = Pore Lining, M = Matrix.         Indicators:       indicators:         istocol (A1)       Polyvalue Below Surface (S9) (LRR R, MLRA 149B)         istocol (A2)       Thin Dark Surface (S9) (LRR R, MLRA 149B)         jack Histic (A3)       Loamy Mucky Mineral (F1) (LRR K, L)         jyrogen Sulfae (A4)       Loamy Mucky Mineral (F1) (LRR K, L)         jstratified Layers (A5)       Depleted Matrix (F3)         peleted Below Ms Surface (F6)       Thin Dark Surface (F7)         Thick Dark Surface (A12)       Depleted Dark Surface (F6)         Sandy Mucky Mineral (S1)       Redox Depressions (F8)         Sandy Micky Mineral (S1)       Redox Depressions (F8)         Sandy Micky Mineral (S1)       Redox Depressions (F8)         Sandy Micky Mineral (S1)       Red Dark Surface (F72)         Dark Surface (S7) (LRR R, MLRA 149B)       Otre (Explain in Remarks)         icators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.         Trickue Layer (I observed):       Type:         Type:       Compaction         Depth (inches):       8	Image: Solution in the image: Solutio	ls <sup>3</sup> :
e: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains.       *Location: PL = Pore Lining, M = Matrix.         Indicators:       Indicators (rotoblematic Hydric Soils):         Histosol (A1)	Image: Solution in the image: Solutio	ls <sup>3</sup> : 149B)
e: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains, *Location: PL = Pore Lining, M = Matrix.         ric Soil Indicators:         'Istice Epipedon (A2)         Thin Dark Surface (S9) (LRR R, MLRA 149B)         Jack Histic (A3)         Loarny Mucky Mineral (F1) (LRR K, L)         > Depleted Matrix (F2)         Strattlef Layers (A5)         Depleted Matrix (F2)         Depleted Matrix (F2)         Jandy Mucky Mineral (F1)         Mexis Surface (A11)         Red Narra (F3)         Depleted Matrix (F2)         Depleted Matrix (F2)         Jandy Mucky Mineral (S1)         Red Narra (F3)         Marky Readox (A12)         Depleted Matrix (F2)         Jandy Mucky Mineral (S1)         Redox Dark Surface (F7)         Thin Dark Surface (S1) (LRR K, L)         Jandy Mucky Mineral (S1)         Redox Dark Surface (S1)         Jandy Mineral (S1)         Redox Dark Surface (S1)         Jandy Mineral (S1)         Redox Dark Surface (S1)         Jandy Mineral (S1)         Red Parem Material (F2)         Jandy Mineral (S1)         Red Parem Material (F2)         Jank Surface (S1) (LRR K, MIRA 149B)         Comparetion	Image: Second Stripped on (A2)       Polyvalue Below Surface (S8) (LRR R, MLRA 149B)       2 cm Muck (A10) (LRR K, L, MLRA 149B)         Ic Epipedon (A2)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       2 cm Muck (A10) (LRR K, L, MLRA 149B)         k Histic (A3)       Loamy Mucky Mineral (F1) (LRR K, L)       5 cm Mucky Peat or Peat (S3) (LRR K, L)         rogen Sulfide (A4)       Loamy Gleyed Matrix (F2)       Depleted Matrix (F3)         leted Below Dark Surface (A11)       Redox Dark Surface (F6)       Polyvalue Below Surface (S9) (LRR K, L)	ls <sup>3</sup> : 149B)
e: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains.       *Location: PL = Pore Lining, M = Matrix.         itiosol (A1)       Polyvalue Below Surface (S9) (LRR R, MLRA 1499)	:= Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. <sup>2</sup> Location: PL = Pore Lining, M = Matrix.         ioil Indicators:       Indicators for Problematic Hydric Soils         osol (A1)      Polyvalue Below Surface (S8) (LRR R, MLRA 149B)      2 cm Muck (A10) (LRR K, L, MLRA 1         ic Epipedon (A2)      Thin Dark Surface (S9) (LRR R, MLRA 149B)      2 cm Muck (A10) (LRR K, L, MLRA 1         k Histic (A3)      Domy Mucky Mineral (F1) (LRR K, L)      5 cm Mucky Peat or Peat (S3) (LRR rogen Sulfide (A4)         rogen Sulfide (A4)      Domy Gleyed Matrix (F2)      Dark Surface (S7) (LRR K, L)         leted Below Dark Surface (A11)      Redox Dark Surface (F6)      Thin Dark Surface (S9) (LRR K, L)	ls³: 149B)
e: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. *Location: PL = Pore Lining, M = Matrix. Indicators for Problematic Hydric Solis?: Ististic Epipedon (A2) Thin Dark Surface (S9) (LRR R, MLRA 1498) Jack Histic (A3) Loamy Mucky Mineral (F1) (LIRK K, L) Some mucky A10 (LRR K, L, N) Some mucky Depleted Matrix (F2) Depleted Matrix (F3) Depleted Matrix (F3) Depleted Dark Surface (F7) Thin Dark Surface (S9) (LRR K, L) Depleted Dark Surface (F7) Thin Dark Surface (S1) (LRR K, L) Depleted Dark Surface (F7) Thin Dark Surface (S1) (LRR K, L) Depleted Dark Surface (F7) Thin Dark Surface (S1) (LRR K, L) Depleted Dark Surface (F7) Thin Dark Surface (S1) (LRR K, L) Depleted Dark Surface (F7) Thin Dark Surface (S1) (LRR K, L) Depleted Dark Surface (F7) Thin Dark Surface (S1) (LRR K, L) Depleted Dark Surface (F7) Thin Dark Surface (S1) (LRR K, L) Depleted Dark Surface (F7) Thin Dark Surface (S1) (LRR K, L) Depleted Dark Surface (F7)	Image: Source of Carterian state of the second state	ls <sup>3</sup> : 149B)
we: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains.       ?Location: PL = Pore Lining, M = Matrix.         irf: Soil Indicators:       istosoil (A1)       Polyvalue Below Surface (S8) (LRR R, MLRA 1498)         istic Epipedon (A2)       Thin Dark Surface (S9) (LRR R, MLRA 1498)       2 cm Muck (A10) (LRR K, L, MLRA 1498)         jack Histi (A3)       Loamy Mucky Mineral (F1) (LRR K, L]       5 cm Mucky Paet or Peat (S3) (LRR K, L)         ydrogen Sulfide (A4)       Loamy Gleyed Matrix (F2)       Dark Surface (S7) (LRR K, L)         Stantfied Layers (A5)       Depleted Matrix (F2)       Dark Surface (S7) (LRR K, L)         Sandy Gleyed Matrix (S4)       Redox Depressions (F8)       Piedemont Floodplain Solis (F19) (MLR K, L A15, 14         Sandy Gleyed Matrix (S6)       Red Parent Material (F21)       Wersy Shallow Dark Surface (T12)         Dark Surface (S7) (LRR R, MLRA 1498)       Very Shallow Dark Surface (T12)       Other (Explain in Remarks)         icators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.       rrictive Layer (if observed):       Type:         Type:       Compaction       Yes	Indicators:       Indicators:       Indicators for Problematic Hydric Soils         Indicators:       Indicators for Problematic Hydric Soils         Ic Epipedon (A2)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       2 cm Muck (A10) (LRR K, L, MLRA 1         k Histic (A3)       Loamy Mucky Mineral (F1) (LRR K, L)       5 cm Mucky Peat or Peat (S3) (LRR K, L)         rogen Sulfide (A4)       Loamy Gleyed Matrix (F2)       Depleted Matrix (F3)         leted Below Dark Surface (A11)       Redox Dark Surface (F6)       Polyvalue Below Surface (S9) (LRR K, L)	ls <sup>3</sup> : 149B)
e: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. <sup>2</sup> Location: PL = Pore Lining, M = Matrix. Indicators in Indicators: Indicators for Problematic Hydric Soils*: Istic Epipedon (A2)	E = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. <sup>2</sup> Location: PL = Pore Lining, M = Matrix.         Soil Indicators:       Indicators for Problematic Hydric Soils         osol (A1)       Polyvalue Below Surface (S8) (LRR R, MLRA 1498)         ic Epipedon (A2)       Thin Dark Surface (S9) (LRR R, MLRA 1498)         k Histic (A3)       Loamy Mucky Mineral (F1) (LRR K, L)         rogen Sulfide (A4)       Loamy Gleyed Matrix (F2)         tified Layers (A5)       Depleted Matrix (F3)         leted Below Dark Surface (A11)       Redox Dark Surface (F6)         k Dark Surface (A12)       Depleted Dark Surface (F6)	ls <sup>3</sup> : 149B)
ee: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains.       *Location: PL = Pore Lining, M = Matrix.         fric Soil Indicators:       Indicators:         itistosol (A1)       Polyvalue Below Surface (S9) (LRR R, MLRA 149B)       2 cm Muck (A10) (LRR K, L)         Jlack Histic (A3)       Loamy Mucky Mineral (F1) (URR K, L)       S cm Muck (A10) (LRR K, L)         Jydrogen Sulfide (A4)       Loamy Gleved Matrix (F2)       Depleted Matrix (F2)         Stratified Layers (A5)       Depleted Dark Surface (F6)       Dark Surface (S9) (LRR K, L)         Fink Dark Surface (S1)       Depleted Dark Surface (F7)       Thin Dark Surface (S9) (LRR K, L)         Standy Redox (S5)       Bedox Depressions (F8)       Poleyalue Below Surface (S9) (LRR K, L)         Standy Redox (S5)       Watrix (S6)       Very Shallow Dark Surface (TF12)         Dark Surface (S7) (LRR M, MLRA 149B)       Very Shallow Dark Surface (TF12)         Standy Redox (S5)       Batrix (Soil Present?       Yers Snallow Dark Surface (TF12)         Other (Explain in Remarks)       Compaction       Hydric Soil Present?       Yes S_No         Type:       Compaction       Hydric Soil Present?       Yes S_No         Type:       Compaction       Hydric Soil Present?       Yes S_No         Depth (inches):       8       A       A	E = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains.       2Location: PL = Pore Lining, M = Matrix.         Soil Indicators:       Indicators for Problematic Hydric Soils         Dosol (A1)       Polyvalue Below Surface (S8) (LRR R, MLRA 149B)         ic Epipedon (A2)       Thin Dark Surface (S9) (LRR R, MLRA 149B)         k Histic (A3)       Loamy Mucky Mineral (F1) (LRR K, L)         rogen Sulfide (A4)       Loamy Gleyed Matrix (F2)         leted Below Dark Surface (A11)       Redox Dark Surface (F6)         k Dark Surface (A12)       Dopleted Dark Surface (F2)	ls³: 149B)
ric Soil Indicators: Indicators for Problematic Hydric Soils?: Istosol (A1)Polyvalue Below Surface (S9) (LRR R, MLRA 1498) Istic Epipedon (A2)Thin Dark Surface (S9) (LRR K, L) Polyvalue Below Surface (S9) (LRR K, L) Sorm Mucky Mineral (F1) (LRR K, L) Sorm Mucky Peat or Peat (S3) (LRR K, L) Dark Surface (A11)Redox Dark Surface (F6) Thin Dark Surface (A12)Depleted Matrix (F3)Polyvalue Below Surface (S8) (LRR K, L) Sord Mucky Mineral (S1)Redox Depressions (F8)Polyvalue Below Surface (S8) (LRR K, L) Sort Surface (S7) (LRR K, L) Dark Surface (S7) (LRR K, L) Dark Surface (S7) (LRR K, L) Sort Mucky Mineral (S1)Redox Depressions (F8)Polyvalue Below Surface (F7) Tor-Manganese Masses (F12) (LRR K, L) Sort Mucky Mineral (S1)Redox Depressions (F8)Polyvalue Below Surface (S7) (LRR K, L) Stripped Matrix (S6) Corepaction and wetland hydrology must be present, unless disturbed or problematic. rictive Layer (If Observed):	Soil Indicators:       Indicators for Problematic Hydric Soils         osol (A1)       Polyvalue Below Surface (S8) (LRR R, MLRA 1498)       2 cm Muck (A10) (LRR K, L, MLRA 1         ic Epipedon (A2)       Thin Dark Surface (S9) (LRR R, MLRA 1498)       2 cm Muck (A10) (LRR K, L, MLRA 1         k Histic (A3)       Loamy Mucky Mineral (F1) (LRR K, L)       5 cm Mucky Peat or Peat (S3) (LRR r, MLRA 1498)         rogen Sulfide (A4)       Loamy Gleyed Matrix (F2)       Dark Surface (S7) (LRR K, L)         leted Below Dark Surface (A11)       Redox Dark Surface (F6)       Polyvalue Below Surface (S9) (LRR K, L)         leted Surface (A12)       Donalt Surface (F2)       Thin Dark Surface (S9) (LRR K, L)	ls³: 149B)
Istosol (A1)Polyvalue Below Surface (S3) (LRR R, MLRA 149B)2 cm Muck (A10) (LRR K, L, MLRA 149B) [Istic Epipedon (A2)Thin Dark Surface (S9) (LRR K, MLRA 149B)Gast Prairie Redox (A16) (LRR K, L, R) Jlack Histic (A3)Loamy Kleyd Matrix (F2)Dark Surface (S3) (LRR K, L) pepleted Below Dark Surface (A11)Redox Dark Surface (F6)Thin Dark Surface (S9) (LRR K, L) pepleted Below Dark Surface (A12)Depleted Dark Surface (F7)Tno-Manganese Masses (F12) (LRR K, L) iandy Mucky Mineral (S1)Redox Depressions (F8)Thin Dark Surface (S9) (LRR K, L) iandy Macky Klera (S5) iandy Macky Klera (S5) iards Surface (S7) (LRR K, MLRA 149B) Very Shallow Dark Surface (TF12) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) icators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. rictive Layer (If observed): Depth (inches): 8 aarks:	osol (A1)       Polyvalue Below Surface (S8) (LRR R, MLRA 1498)       2 cm Muck (A10) (LRR K, L, MLRA 1         ic Epipedon (A2)       Thin Dark Surface (S9) (LRR R, MLRA 1498)       Coast Prairie Redox (A16) (LRR K, L         k Histic (A3)       Loamy Mucky Mineral (F1) (LRR K, L)       5 cm Mucky Peat or Peat (S3) (LRR K, L)         rogen Sulfide (A4)       Loamy Gleyed Matrix (F2)       Depleted Matrix (F3)         leted Below Dark Surface (A11)       Redox Dark Surface (F6)       Polyvalue Below Surface (S9) (LRR K, L)         Loark Surface (A12)       Depleted Dark Surface (F7)       Thin Dark Surface (S9) (LRR K, L)	149B)
Histic Epipedori (A2) Inin Dark Surface (S9) (LRR K, MLRA (499) Coast Prairie Redox (A16) (LRR K, L R) jydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Dark Surface (S7) (LRR K, L) Depleted Matrix (F3) Polyvalue Below Surface (S8) (LRR K, L) Polyvalue Below Surface (S8) (LRR K, L) Polyvalue Below Surface (S8) (LRR K, L) Tim Dark Surface (S7) (LRR K, L) Depleted Dark Surface (F7) Tron-Manganese Masses (F12) (LRR K, L) Predmont Floodplain Soils (F19) (MLRA iandy Redox (S5) Red Parent Material (F21) Very Shallow Dark Surface (S7) (LRR K, L) Predmont Floodplain Soils (F19) (MLRA 144A, 145, 14 andy Mucky Mineral (S6) Very Shallow Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) cators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. rictive Layer (if observed): Mydric Soil Present? Yes No Depth (inches): 8 Arks:	In In Dark Surface (S9) (LRR K, MLKA 149B)      Coast Prairie Redox (A16) (LRR K, L         k Histic (A3)      Loamy Mucky Mineral (F1) (LRR K, L)      S coast Prairie Redox (A16) (LRR K, L         rogen Sulfide (A4)      Loamy Gleyed Matrix (F2)      S com Mucky Peat or Peat (S3) (LRR K, L)         tified Layers (A5)      Depleted Matrix (F3)      Dark Surface (S7) (LRR K, L)         leted Below Dark Surface (A11)      Redox Dark Surface (F6)      Thin Dark Surface (S9) (LRR K, L)	
Jack Tuber (G)	Image: Construction of the construc	L, R)
Jaratified Layers (A5)     Depleted Matrix (F3)     Depleted Matrix (F3)       Depleted Below Dark Surface (A1)     Redox Dark Surface (F6)     Thin Dark Surface (S9) (LRR K, L)       Thick Dark Surface (A12)     Depleted Dark Surface (F7)     Thin Dark Surface (S9) (LRR K, L)       Sandy Micky Mineral (S1)     Redox Depressions (F8)     Thin Dark Surface (S9) (LRR K, L)       Sandy Gleyed Matrix (S4)     Piedmont Floodplain Soils (F19) (MLRA 145, 14       Sandy Medox (S5)     Red Parent Material (F21)       Stripped Matrix (S6)     Very Shallow Dark Surface (TF12)       Dark Surface (S7) (LRR R, MLRA 149B)     Very Shallow Dark Surface (TF12)       icators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.     ritice Layer (if observed):       Type:     Compaction       Depth (inches):     8	Lified Layers (A5)	R K, L, R)
Depleted Below Dark Surface (A11) Redox Dark Surface (F6)       Folyvalue Below Surface (S9) (LRR K, L)         Thick Dark Surface (A12)       Depleted Dark Surface (F7)       Iron-Manganese Masses (F12) (LRR K, L)         Sandy Gleyed Matrix (S4)       Piedmont Floodplain Soils (F19) (MLRA Sandy Gleyed Matrix (S6)       Mesic Spodic (TA6) (MLRA 144A, 145, 14 Redox (S7) (LRR R, MLRA 149B)         Stripped Matrix (S6)       Very Shallow Dark Surface (T12)       Very Shallow Dark Surface (T12)         Dark Surface (S7) (LRR R, MLRA 149B)	leted Below Dark Surface (A11) Redox Dark Surface (F6) Thin Dark Surface (S9) (LRR K, L)	
Thick Dark Surface (A12)	k Dark Surface (A12) ITIII Dark Surface (57) ITIII Dark Surface (59) (LRR N, L)	( K, L)
Sandy Mucky Mineral (S1)	k Dark Surface (A12) Depieted Dark Surface (F7) Iron Mangaporo Mascos (E12) (LD	ע ואס
Sandy Gleyed Matrix (S4) Hesic Spodic (TA6) (MLRA 144A, 145, 14 Sandy Redox (S5) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) icators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. trictive Layer (if observed): Type: Compaction Depth (inches): 8 hydric Soil Present? Yes No harks:	dy Mucky Mineral (S1) Redox Depressions (F8) Piedmont Eloodplain Soils (F19) (M	MI RA 149F
Sandy Redox (S5)	dy Gleyed Matrix (S4) Nesic Spodic (TA6) (MLRA 144A, 14	45, 149B)
Stripped Matrix (S6)	dy Redox (S5) Red Parent Material (F21)	,
Dark Surface (S7) (LRR R, MLRA 149B)  Other (Explain in Remarks)	pped Matrix (S6) Very Shallow Dark Surface (TF12)	
dicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.         strictive Layer (if observed):         Type:       Compaction         Depth (inches):       8	< Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks)	
strictive Layer (if observed):   Type: Compaction   Depth (inches): 8   marks:	ors of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.	
Type:     Compaction       Depth (inches):     8   narks:	ive Layer (if observed):	
Depth (inches): 8 marks:	Type: Compaction Hydric Soil Present? Yes No 🗸	
narks:	Depth (inches): 8	
	S:	

Vegetation Photos



Soil Photos

Photo of Sample Plot North



Photo of Sample Plot East Photo of Sample Plot South



Photo of Sample Plot West



# WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Riverside Solar	City/County: Chaumont, Jefferson	Sampling Date: 2020-June-04
Applicant/Owner: Geronimo	State:	NY Sampling Point: W-NSD-10_UPL-2
Investigator(s): Nick DeJohn, Other, Ben Po	opham Section, Towns	ship, Range:
Landform (hillslope, terrace, etc.): Flat	Local relief (concave, o	convex, none): Undulating Slope (%): 0 to 1
Subregion (LRR or MLRA): LRR R	Lat: 44.066057	73775 Long: -76.0942579341 Datum: WGS84
Soil Map Unit Name: KgAKingsbury silty	clay, 0 to 2 percent slopes	NWI classification:
Are climatic/hydrologic conditions on the site	e typical for this time of year? Yes 🧹	_ No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydro	ology significantly disturbed? Are "No	ormal Circumstances" present? Yes 🟒 No
Are Vegetation, Soil, or Hydro	ology naturally problematic? (If need	ded, explain any answers in Remarks.)

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

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

#### HYDROLOGY

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

VEGETATION -- Use scientific names of plants.

Sampling Point: W-NSD-10\_UPL-2

Tree Stratum (Plot size: <u>30 ft</u> )	Absolute	Dominant	Indicator	Dominance Test works	heet:		
1 Carva ovata	50	Voc		Are OBL, FACW, or FAC:		2	(A)
	25	Voc		Total Number of Dominant Species			
		163	FACO	Across All Strata:		/	(B)
л	·			Percent of Dominant S	Percent of Dominant Species That		(A/B)
т с	·			Are OBL, FACW, or FAC	:	20.0	(A/ D)
5	·			Prevalence Index work	sheet:		
7	·			Total % Cover	<u>of:</u>	<u>Multiply</u>	<u>By:</u>
···	75	= Total Cov	or	OBL species	0	x 1 =	0
Sanling/Shruh Stratum (Plot size: 15 ft )	/5		CI	FACW species	20	x 2 =	40
1 Carninus caroliniana	30	Voc	FAC	FAC species	30	x 3 =	90
2 Ostrva virginiana	10	Voc		FACU species	100	x 4 =	400
2. Ostrya virginiaria	10	163	FACO	UPL species	35	x 5 =	175
5	·			Column Totals	185	(A)	705 (B)
4	·			Prevalence l	ndex = B/A =	3.8	
5	·			Hydrophytic Vegetatio	n Indicators:		
o	·			1- Rapid Test for	Hydrophytic V	egetation/	
7		Tabal Car		2 - Dominance Te	st is > 50%		
	40	= lotal Cov	er	3 - Prevalence Inc	dex is $\leq 3.0^1$		
Herb Stratum (Plot size: <u>5 ft</u> )	25	Vee		4 - Morphologica	l Adaptations <sup>1</sup>	Provide	supporting
1. Fragaria Vesca	35	Yes		data in Remarks or on	a separate sh	ieet)	
2. Anemone canadensis	20	Yes	FACW	Problematic Hyd	rophytic Vege	tation <sup>1</sup> (Ex	plain)
3. Podophyllum peltatum	15	Yes	FACU	<sup>1</sup> Indicators of hydric so	oil and wetlan	d hydrolog	gy must be
4.	·			present, unless distur	ped or probler	matic	
5.				Definitions of Vegetati	on Strata:		
6.	·			Tree – Woody plants 3	in. (7.6 cm) or	r more in o	diameter at
7				breast height (DBH), re	gardless of h	eight.	
8				Sapling/shrub – Wood	y plants less t	han 3 in. D	BH and
9				greater than or equal t	.03.28π(1m)	) tall.	
10	·			size and woody plants	(non-woody)	piants, reg 8 ft tall	gardiess of
11	·			Woody vines - All woo	dy vines great	tor than 3	28 ft in
12				height.	uy vines great		2010111
	70	= Total Cov	er	Lludrophytic Vogotatic	Drocont2	/oc \	
Woody Vine Stratum (Plot size: <u>30 ft</u> )					In Present?	res N	IO <u>-</u>
1							
2							
3	<u> </u>						
4	<u> </u>						
	0	= Total Cov	er				
Remarks: (Include photo numbers here or on a separa	te sheet.)						

SOIL

### Sampling Point: W-NSD-10\_UPL-2

inches) Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Text	ure	Remarks
0 - 7 10YR 4/2	100					Silty Cla	y Loam	
			·					
			·					
			·					
$p_{0}: C = Concentration D = C$		n PM - Poducod	Mati	iv MS -	Maskod Sar	d Grains 21	acation: PL - Pore	Lining M - Matrix
dric Soil Indicators:	Pepietio	n, Kivi – Reduced	wau	IX, IVIS – I	WIdSkeu Sai		Indicators for Pro	oblematic Hydric Soils <sup>3</sup> :
Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surfar Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4)	ce (A11)	Thin Dark Sun Loamy Mucky Depleted Mat Redox Dark S Depleted Dar Redox Depre	face / Min d Ma crix (F urfac k Su ssior	(S9) <b>(LRR</b> eral (F1) ( trix (F2) -3) -6 (F6) -face (F7) as (F8)	R, MLRA 14 (LRR K, L)	9B)	<ul> <li>Coast Prairie</li> <li>Coast Prairie</li> <li>5 cm Mucky I</li> <li>Dark Surface</li> <li>Polyvalue Be</li> <li>Thin Dark Su</li> <li>Iron-Mangan</li> <li>Piedmont Flc</li> <li>Mesic Spodic</li> </ul>	Redox (A16) (LRR K, L, R) Peat or Peat (S3) (LRR K, L, R) (S7) (LRR K, L) low Surface (S8) (LRR K, L) rface (S9) (LRR K, L) ese Masses (F12) (LRR K, L, R) podplain Soils (F19) (MLRA 149B)
Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) <b>(LRR R, M</b>	LRA 149	9B)					Red Parent M Very Shallow Other (Explai	laterial (F21) Dark Surface (TF12) n in Remarks)
Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) <b>(LRR R, M</b> dicators of hydrophytic vege	LRA 149	<b>9B)</b> and wetland hydr	ology	y must be	e present, u	nless disturbe	Red Parent M Very Shallow Other (Explai d or problematic.	Aaterial (F21) Dark Surface (TF12) n in Remarks)
Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, M dicators of hydrophytic vege strictive Layer (if observed): Type:	LRA 149	<b>PB)</b> and wetland hydr Roots	ology	y must be	e present, u	nless disturbe	Red Parent M Very Shallow Other (Explai d or problematic.	Aaterial (F21) Dark Surface (TF12) n in Remarks) Yes No 🗸
_ Sandy Redox (S5) _ Stripped Matrix (S6) _ Dark Surface (S7) <b>(LRR R, M</b> ndicators of hydrophytic vege strictive Layer (if observed): 	LRA 149	<b>PB)</b> and wetland hydr Roots 7	olog	y must be	e present, u Hydric Soi	nless disturbe Present?	Red Parent M Very Shallow Other (Explai d or problematic.	Aaterial (F21) Dark Surface (TF12) n in Remarks) Yes No⁄_

Vegetation Photos



Soil Photos



Photo of Sample Plot North Photo of Sample Plot East



Photo of Sample Plot South Photo of Sample Plot West



# WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Riverside	Solar		City/County: Cha	umont, Jeffe	erson		Sampling Date:	2020-June-04
Applicant/Owner: Ge	eronimo				State: NY		Sampling Point:	W-NSD-11_PEM-1
Investigator(s): Nick	DeJohn, Other	, Ben Popham		Sect	tion, Township, R	ange:		
Landform (hillslope, ter	rrace, etc.):	Channel		Local relief	(concave, convex	, none):	Concave	Slope (%): 1 to 3
Subregion (LRR or MLR	A): LRR R			Lat:	44.0632236237	Long:	-76.0928968807	Datum: WGS84
Soil Map Unit Name:	GvGuffin cla	у					NWI classifi	cation:
Are climatic/hydrologic	conditions on	the site typical	for this time of ye	ar?	Yes 🟒 No _	(If no	o, explain in Rema	arks.)
Are Vegetation,	Soil, o	or Hydrology	significantly dis	sturbed?	Are "Normal	Circums	tances" present?	Yes 🟒 No
Are Vegetation,	Soil, o	or Hydrology	naturally probl	lematic?	(If needed, ex	kplain ar	y answers in Rem	arks.)

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

Hydrophytic Vegetation Present?	Yes 🟒 No		
Hydric Soil Present?	Yes 🟒 No	Is the Sampled Area within a Wetland?	Yes 🟒 No _
Wetland Hydrology Present?	Yes 🟒 No	If yes, optional Wetland Site ID:	W-NSD-11
Remarks: (Explain alternative procedures	s here or in a separate rep	ort)	
Covertype is PEM.			

#### HYDROLOGY

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

VEGETATION -- Use scientific names of plants.

Sampling Point: W-NSD-11\_PEM-1

Adsolute % Cover	Dominant Species?	Indicator Status	Number of Dominant	Species That	з	(Δ)
	·		Are OBL, FACW, or FAC	:	5	(~)
			<ul> <li>Total Number of Domi</li> <li>Across All Strata:</li> </ul>	nant Species	3	(B)
			Percent of Dominant S	pecies That	100	(A/B)
			ATE OBL, FACW, OF FAC	 		
			Tatal % Cover	sneet.	Multiply	D. #
				<u> </u>		<u>ру.</u>
0	= Total Cov	er	- OBL species	40	x I =	40
	-		FACW species	45	x 2 =	90
			FAC species	12	x 3 =	36
			<ul> <li>FACU species</li> </ul>	0	x 4 =	0
			- UPL species	0	x 5 =	0
			– Column Totals	97	(A)	166 (B)
			Prevalence l	ndex = B/A =	1.7	
			- Hydrophytic Vegetatio	n Indicators:		
			1- Rapid Test for	Hydrophytic V	egetation	
			- 2 - Dominance Te	est is >50%	0	
0	= Total Cov	rer	✓ 3 - Prevalence Inc	dex is $\leq 3.0^1$		
			4 - Mornhologica	Adaptations <sup>1</sup>	(Provide	sunnorting
40	Yes	OBL	- data in Remarks or on	a separate sh	(i retruc	supporting
25	Yes	FACW	Problematic Hyd	rophytic Vege	tation <sup>1</sup> (Ex	plain)
20	Yes	FACW	- <sup>1</sup> Indicators of hydric so	bil and wetlan	d hydrolog	gy must be
12	No	FAC	present, unless disturb	bed or probler	matic	
			Definitions of Vegetati	on Strata:		
			Tree – Woody plants 3	in. (7.6 cm) or	more in o	diameter at
			breast height (DBH), re	egardless of h	eight.	
			Sapling/shrub - Wood	y plants less tl	han 3 in. D	OBH and
			greater than or equal t	to 3.28 ft (1 m	) tall.	
			Herb – All herbaceous	(non-woody)	plants, reg	gardless of
			size, and woody plants	less than 3.2	8 ft tall.	
			Woody vines – All woo	dy vines great	er than 3.	28 ft in
97	= Total Cov	er	neight.			
			Hydrophytic Vegetatio	on Present?	res 🟒 🖊	lo
			_			
			_			
			_			
0	= Total Cov	er	-			
eparate sheet.)						
	% Cover	% Cover         Species?	% Cover         Species?         Status	% Cover       Species?       Status       Number of Dominant :	% Cover       Species?       Status       Number of Dominant Species That         Are OBL, FACW, or FAC:       Total Number of Dominant Species         Total       Mumber of Dominant Species         Across All Strata:       Percent of Dominant Species That         Are OBL, FACW, or FAC:       Prevalence Index worksheet:         Total % Cover of:       Total % Cover of:         0       = Total Cover         FACW species       45         FACW species       0         FACW species       0         Column Totals       97         Prevalence Index = B/A =       Hydrophytic Vegetation Indicators:         ∠       1         Ata in Remarks or on a separate sh       Problematic Hydrophytic Vegetation Strata:         40       Yes         20       Yes         21       No         220       Yes         23       Prevalence Index is ≤ 3.01         41       Amerbor of bydric voig and wettan present, unless disturbed or problematic Hydrophytic Vegetation Strata:         Tree - Woody plants 3 in. (7.6 cm) or breast height (DBH), regardless of h spating/shrub - Woody plants less than 3.2         97       = Total Cover         97       = Total Cover         97       = Total Cover	% Cover       Species?       Status       Number of Dominant Species That Are OBL, FACW, or FAC:

SOIL

### Sampling Point: W-NSD-11\_PEM-1

	st) %	Color (moist)	% Type <sup>1</sup>	Loc <sup>2</sup> Tex	ture	Remarks
0 - 7 10YR 3/1	98	5YR 4/4	2 C	M Silty Cla	ay Loam	
			·			
			·			
ype: C = Concentration,	D = Depleti	on, RM = Reducec	Matrix, MS =	Masked Sand Grains. <sup>2</sup>	Location: PL = Pore Li	ning, M = Matrix.
ydric Soil Indicators:					Indicators for Prob	lematic Hydric Soils <sup>3</sup> :
<ul> <li>Histosol (A1)</li> <li>Histic Epipedon (A2)</li> <li>Black Histic (A3)</li> <li>Hydrogen Sulfide (A4)</li> <li>Stratified Layers (A5)</li> <li>Depleted Below Dark S</li> <li>Thick Dark Surface (A1</li> <li>Sandy Mucky Mineral (</li> <li>Sandy Gleyed Matrix (S)</li> <li>Stripped Matrix (S6)</li> <li>Dark Surface (S7) (LRR</li> </ul>	Surface (A11 2) 51) 54) <b>R, MLRA 1</b> 4	Polyvalde Be Thin Dark Su Loamy Muck Loamy Gleye Depleted Ma 1) Redox Dark S Depleted Da Redox Depre 19B)	rface (S9) <b>(LR</b> y Mineral (F1) d Matrix (F2) trix (F3) Surface (F6) rk Surface (F7 essions (F8)	50) (LRR R, MLRA 149B) R R, MLRA 149B) ) (LRR K, L)	2 cm Muck (A1 Coast Prairie R 5 cm Mucky Pe Dark Surface (S Polyvalue Belor Thin Dark Surfa Iron-Manganes Piedmont Floor Mesic Spodic (T Red Parent Ma Very Shallow D Other (Explain	0) (LRR K, L, MLRA 149B) edox (A16) (LRR K, L, R) at or Peat (S3) (LRR K, L, R) 57) (LRR K, L) w Surface (S8) (LRR K, L) ace (S9) (LRR K, L) se Masses (F12) (LRR K, L, R) dplain Soils (F19) (MLRA 149B) TA6) (MLRA 144A, 145, 149B) terial (F21) ark Surface (TF12) in Remarks)
ndicators of hydrophytic	vegetation	and wetland hyd	rology must b	e present, unless disturb	ed or problematic.	
	eu).	Rock		Hydric Soil Present?	Ye	5 / No
Depth (inches	):	7	-			

Vegetation Photos



Soil Photos

Photo of Sample Plot North



Photo of Sample Plot East Photo of Sample Plot South



Photo of Sample Plot West



# WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Riverside Solar	City/County: Chaumont, Jefferson	Sampling Date: 2020-June-04
Applicant/Owner: Geronimo	State: NY	Sampling Point: W-NSD-11_UPL-1
Investigator(s): Nick DeJohn, Other, Ben Poph	m Section, Township, Range:	
Landform (hillslope, terrace, etc.): Toe	Local relief (concave, convex, none	: Undulating Slope (%): 2 to 5
Subregion (LRR or MLRA): LRR R	Lat: 44.0635747416 Long	<u>; -76.0925648735</u> Datum: WGS84
Soil Map Unit Name: GvGuffin clay		NWI classification:
Are climatic/hydrologic conditions on the site typ	ical for this time of year? Yes 🖌 No (If	າວ, explain in Remarks.)
Are Vegetation, Soil, or Hydrolog	y significantly disturbed? Are "Normal Circum	stances" present? Yes 🖌 No
Are Vegetation, Soil, or Hydrolog	y naturally problematic?     (If needed, explain a	ny answers in Remarks.)

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

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

#### HYDROLOGY

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

Sampling Point: W-NSD-11\_UPL-1

Tree Stratum (Plot size: <u>30 ft</u> )	Absolute	Dominant	Indicator	Dominance Test works	heet:		
	% Cover	Species?	Status			1	(A)
1				Total Number of Domi	hant Species		
2.				- Across All Strata:	iune species	3	(B)
3				Percent of Dominant S	pecies That		(1 (5)
4.				Are OBL, FACW, or FAC	:	33.3	(A/B)
5.				<ul> <li>Prevalence Index work</li> </ul>	sheet:		
0	·			- <u>Total % Cover</u>	<u>of:</u>	Multiply	<u>By:</u>
7		Tabal Car		– OBL species	0	x 1 =	0
Caulty - (Church Structures (Distances 45.ft))	0		er	FACW species	0	x 2 =	0
<u>Sapling/Shrub Stratum</u> (Plot Size: <u>15 ft</u> )				FAC species	20	x 3 =	60
1				– FACU species	75	x 4 =	300
2.				- UPL species	0	x 5 =	0
3				– Column Totals	95	(A)	360 (B)
4.				Prevalence Ir	ndex = B/A =	3.8	
5				- Hydrophytic Vegetatio	n Indicators:		
6.				1- Rapid Test for H	- - Hydrophytic V	/egetation	
7				– 2 - Dominance Te	st is > 50%		
	0	= Total Cov	er	3 - Prevalence Inc	lex is $\leq 3.0^1$		
<u>Herb Stratum</u> (Plot size: <u>5 ft</u> )				4 - Morphological	Adaptations	<sup>1</sup> (Provide	supporting
1. <u>Galium mollugo</u>	40	Yes	FACU	– data in Remarks or on	a separate sh	neet)	
2. <u>Solidago canadensis</u>	35	Yes	FACU	Problematic Hydr	ophytic Vege	tation <sup>1</sup> (Ex	plain)
3. <u>Ranunculus acris</u>	20	Yes	FAC	<sup>1</sup> Indicators of hydric so	il and wetlan	d hydrolog	gy must be
4.				present, unless disturb	ed or proble	matic	
5				_ Definitions of Vegetation	on Strata:		
6				Tree – Woody plants 3	in. (7.6 cm) oı	r more in o	diameter at
7				_ breast height (DBH), re	gardless of h	eight.	
8				Sapling/shrub – Woody	plants less t	han 3 in. D	OBH and
9				greater than or equal t	o 3.28 ft (1 m	) tall.	
10				Herb – All herbaceous	(non-woody)	plants, reg	gardless of
11					less than 3.2	8 IL LAII.	20.64 :
12				- beight	uy viries great	ter triari 5.	201111
	95	= Total Cov	er		- D		
<u>Woody Vine Stratum</u> (Plot size: <u>30 ft</u> )				Hydrophytic Vegetatio	n Present?	res N	IO _ <b>/</b> _
1				_			
2				_			
3				_			
				_			
4	_	= Total Cov	er				

SOIL

## Sampling Point: W-NSD-11\_UPL-1

(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture		Remarks
0 - 12	10YR 3/2	100					Clay Loar	n	
		<u> </u>							
						<u> </u>			
				· —					
				· —		<u> </u>			
		<u> </u>				<u> </u>			
vpe: C = (	Concentration, D = I	Depletio	n, RM = Reduced	Matr	ix, MS =	Masked S	and Grains. <sup>2</sup> Lo	ocation: PL =	Pore Lining, M = Matrix.
/dric Soil	Indicators:				,			Indicators	for Problematic Hydric Soils <sup>3</sup> :
_ Histoso	l (A1)		Polyvalue Be	low S	urface (S	8) (LRR R,	MLRA 149B)	2 cm M	- luck (A10) <b>(LRR K. L. MI RA 149B)</b>
_ Histic E	oipedon (A2)		Thin Dark Su	in Dark Surface (S9) (LRR R, MLRA 149B)			149B)	Coast P	Prairie Redox (A16) (LRR K, L, R)
_ Black H	istic (A3)		Loamy Muck	y Min	eral (F1)	(LRR K, L)		5 cm M	lucky Peat or Peat (S3) <b>(LRR K, L, R)</b>
_ Hydrog	en Sulfide (A4)		Loamy Gleye	d Ma	trix (F2)			Dark Su	urface (S7) <b>(LRR K, L)</b>
_ Stratifie	d Layers (A5)	( 1 1 1	Depleted Ma	trix (F	-3)			Polyval	ue Below Surface (S8) <b>(LRR K, L)</b>
_ Depiete	a Below Dark Suria	ice (ATT)	Redox Dark 3	wriad -k Sur	e (F6) faco (E7)			Thin Da	ark Surface (S9) <b>(LRR K, L)</b>
Sandy N	Aucky Mineral (S1)		Depieted Dai	ssion	s (F8)			Iron-Ma	anganese Masses (F12) <b>(LRR K, L, R)</b>
Sandy (	Sleved Matrix (SA)			331011	3 (10)			Piedmo	ont Floodplain Soils (F19) <b>(MLRA 149B)</b>
Sandy	$\frac{1}{2} \frac{1}{2} \frac{1}$							Mesic S	Spodic (TA6) <b>(MLRA 144A, 145, 149B)</b>
_ Strippo	d Matrix (S6)							Red Pa	rent Material (F21)
Dark Si	u Matrix (30) Irface (S7) <b>(I RR R M</b>	II RA 149	)B)					Very Sh	nallow Dark Surface (TF12)
			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					Other (	Explain in Remarks)
ndicators	of hydrophytic veg	etation a	and wetland hydr	ology	/ must be	e present,	unless disturbe	d or problen	natic.
estrictive	Layer (if observed):								
	Туре:		Rock	-		Hydric S	oil Present?		Yes No 🟒
	Depth (inches):		12						
emarks:									

Vegetation Photos



Soil Photos

Photo of Sample Plot North



Photo of Sample Plot East



Photo of Sample Plot South



Photo of Sample Plot West



# WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Riverside Solar	City/County: Chaumont, Jefferson	Sampling Date: 2020-June-04
Applicant/Owner: Geronimo	State: NY	Sampling Point: W-NSD-12_PEM-1
Investigator(s): Nick DeJohn, Other, Ben Popham	Section, Township, Range:	
Landform (hillslope, terrace, etc.): Channel	Local relief (concave, convex, none):	Concave Slope (%): 1 to 3
Subregion (LRR or MLRA): LRR R	Lat: 44.0682413243 Long:	-76.0893143714 Datum: WGS84
Soil Map Unit Name: KgAKingsbury silty clay, 0	o 2 percent slopes	NWI classification:
Are climatic/hydrologic conditions on the site typica	l for this time of year? Yes _∠_ No (If no	o, explain in Remarks.)
Are Vegetation, Soil, or Hydrology _	significantly disturbed? Are "Normal Circums	tances" present? Yes 🟒 No
Are Vegetation, Soil, or Hydrology _	naturally problematic? (If needed, explain ar	y answers in Remarks.)

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

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

#### HYDROLOGY

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

VEGETATION -- Use scientific names of plants.

Sampling Point: W-NSD-12\_PEM-1

Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test work	<b>sheet:</b> Species That	2	(A)
			Are OBL, FACW, or FA	C:		
			Total Number of Dom	inant Species	2	(B)
			Across All Strata:			
			Percent of Dominant	Species That	100	(A/B)
			Brovalance Index wor	c. kchoot:		
			Tetal % Cove	ksneet.	Multichel	<b>7</b> . <i>a</i>
				<u>, o</u>		<u>- 2y.</u> 0
0	= Total Cov	er	EACW species		×1- ×2-	190
	-		FACW species	90	x 2	180
			FAC Species		× 3 =	0
			- FACU species	0	x 4 =	0
			- UPL species	0	x 5 =	0
			- Column Totals	90	(A)	180 (B)
			- Prevalence	Index = B/A =	2	
			Hydrophytic Vegetatio	on Indicators:		
			1- Rapid Test for	Hydrophytic V	/egetation	
	- Total Cov		2 - Dominance T	est is >50%		
0		er	_✔_ 3 - Prevalence In	dex is $\leq 3.0^1$		
70		<b>FA (14)</b>	4 - Morphologica	al Adaptations	<sup>1</sup> (Provide s	supporting
/0	Yes	FACW	- data in Remarks or or	i a separate sh	neet)	
20	Yes	FACW	Problematic Hyd	lrophytic Vege	tation¹ (Ex	plain)
			<sup>1</sup> Indicators of hydric s	oil and wetlan	d hydrolog	gy must be
			present, unless distur	bed or problei	matic	
			Definitions of Vegetat	ion Strata:		
			Tree – Woody plants 3	in. (7.6 cm) oi	r more in c	liameter at
			breast height (DBH), r	egardless of h	eight.	
			Sapling/shrub - Wood	ly plants less t	han 3 in. D	BH and
			greater than or equal	to 3.28 ft (1 m	) tall.	
			Herb – All herbaceous	(non-woody)	plants, reg	ardless of
			size, and woody plant	s less than 3.2	8 ft tall.	
			Woody vines – All woo	ody vines great	ter than 3.	28 ft in
	- Total Cou		height.			
90		er	Hydrophytic Vegetati	on Present?	Yes 🖌 N	0
			-			
			-			
			-			
			_			
	% Cover	% Cover         Species?	% Cover         Species?         Status	% Cover       Species?       Status         % Cover       Species?       Status         Mumber of Dominant       Are OBL, FACW, or FAC         Cover       Percent of Dominant 1         Across All Strata:       Percent of Dominant 1         Percent of Dominant 1       Are OBL, FACW, or FAC         Prevalence Index worl       Total % Cover         0       = Total Cover         AC species       FACW species         FACU species       Verse second         O       = Total Cover         Hydrophytic Vegetatic	% Cover       Species?       Status       Number of Dominant Species That         Are OBL, FACW, or FAC:       Total Number of Dominant Species That         Are OBL, FACW, or FAC:       Percent of Dominant Species That         Are OBL, FACW, or FAC:       Prevalence Index worksheet:         D       = Total Cover         0       = Total Cover         FACW species       0         FACU species       0         FACU species       0         Column Totals       90         Prevalence Index is ≤ 3.01	% Cover       Species?       Status       Number of Dominant Species That Are OBL, FACW, or FAC:       2

SOIL

nches) Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture		Remarks
) - 12 5Y 4/1	90	5YR 4/6	10	С	Μ	M Clay Loam		
pe: C = Concentration, D Iric Soil Indicators:	= Deplet	ion, RM = Reduce	d Mat	rix, MS =	Masked Sa	and Grains. <sup>2</sup> L	ocation: PL	= Pore Lining, M = Matrix. s for Problematic Hydric Soils <sup>3</sup> :
Histosol (A1)		Polyvalue B	elow S	Surface (S	8) (LRR R,	MLRA 149B)	2 cm	Muck (A10) (I RR K   MI RA 149B)
Histic Epipedon (A2)		Thin Dark Si	urface	(S9) <b>(LRF</b>	R, MLRA	149B)	2 cm Coast	Prairie Redox (A16) (LRR K, L, R)
Black Histic (A3)		Loamy Muc	ky Mir	neral (F1)	(LRR K, L)		5 cm	Mucky Peat or Peat (S3) (LRR K, L, R)
Hydrogen Sulfide (A4)		Loamy Gley	ed Ma	itrix (F2)			Dark	Surface (S7) (LRR K, L)
Stratified Layers (AS) Depleted Below Dark Su	face (A1	<ol> <li>Depieted M</li> <li>Pedox Dark</li> </ol>	atrix ( Surfa	F3) CA (E6)			Polyv	alue Below Surface (S8) <b>(LRR K, L)</b>
Thick Dark Surface (A12)	Iace (AI	Depleted Dark	ark Su	rface (FO)			Thin [	Dark Surface (S9) <b>(LRR K, L)</b>
	`	Depicted De		nace (F8)			Iron-N	Manganese Masses (F12) <b>(LRR K, L, R)</b>
Sandv Muckv Mineral (S1	)	Redox Debr	<b>C N N N</b>					
Sandy Mucky Mineral (S1 Sandy Gleved Matrix (S4)	)	Redox Depr	633101	13 (10)			Piedn	nont Floodplain Soils (F19) <b>(MLRA 149B)</b>
Sandy Mucky Mineral (S1 Sandy Gleyed Matrix (S4) Sandy Redox (S5)	)	Redox Depr	633101	13 (10)			Piedn Mesic	nont Floodplain Soils (F19) <b>(MLRA 149B)</b> : Spodic (TA6) <b>(MLRA 144A, 145, 149B)</b>
Sandy Mucky Mineral (S1 Sandy Gleyed Matrix (S4 Sandy Redox (S5) Stripped Matrix (S6)	)	Redox Depr	633101	13 (10)			Piedn Mesic Red P	nont Floodplain Soils (F19) <b>(MLRA 149B)</b> Spodic (TA6) <b>(MLRA 144A, 145, 149B)</b> Jarent Material (F21)
Sandy Mucky Mineral (S1 Sandy Gleyed Matrix (S4 Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) ( <b>J RR R</b>	) MI RA 1	Redox Depr	635101	13 (10)			Piedn Mesic Red P Very S	nont Floodplain Soils (F19) <b>(MLRA 149B)</b> Spodic (TA6) <b>(MLRA 144A, 145, 149B)</b> arent Material (F21) Shallow Dark Surface (TF12)
Sandy Mucky Mineral (S1 Sandy Gleyed Matrix (S4 Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) <b>(LRR R,</b>	) MLRA 14	Kedox Depr 49B)	633101	13 (10)			Piedn Mesic Red P Very S Other	nont Floodplain Soils (F19) <b>(MLRA 149B)</b> Spodic (TA6) <b>(MLRA 144A, 145, 149B)</b> arent Material (F21) Shallow Dark Surface (TF12) · (Explain in Remarks)
Sandy Mucky Mineral (S1 Sandy Gleyed Matrix (S4 Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) <b>(LRR R,</b> dicators of hydrophytic ve	MLRA 14	49B)	drolog	y must b	e present,	unless disturbe	Piedn Mesic Red P Very S Other	nont Floodplain Soils (F19) <b>(MLRA 149B)</b> Spodic (TA6) <b>(MLRA 144A, 145, 149B)</b> Parent Material (F21) Shallow Dark Surface (TF12) (Explain in Remarks) Paratic.
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Vegetation Photos



Soil Photos



Photo of Sample Plot North Photo of Sample Plot East



Photo of Sample Plot South

Photo of Sample Plot West



# WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Riverside So	olar	(	City/County: Ch	naumont, Jeffe	erson		Sampling Date:	2020-June-04
Applicant/Owner: Ger	onimo				State: NY		Sampling Point:	W-NSD-12_UPL-1
Investigator(s): Nick De	eJohn, Other,	Ben Popham		Sec	tion, Township, Ra	ange:		
Landform (hillslope, terra	ace, etc.):	Hillslope		Local relief	(concave, convex	, none):	Convex	Slope (%): 2 to 5
Subregion (LRR or MLRA)	): LRR R			Lat:	44.0681724251	Long:	-76.0891285446	Datum: WGS84
Soil Map Unit Name:k	KgA-Kingsbury	silty clay, 0 to 2	2 percent slope	S			NWI classifi	cation:
Are climatic/hydrologic co	onditions on t	he site typical f	for this time of y	year?	Yes 🟒 No _	(If n	o, explain in Rema	irks.)
Are Vegetation, So	oil, 🛛 oi	· Hydrology		disturbed?	Are "Normal (	Circums	tances" present?	Yes 🟒 No
Are Vegetation, So	oil, or	· Hydrology	naturally pro	blematic?	(If needed, ex	plain ar	ny answers in Rem	arks.)

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

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

#### HYDROLOGY

Wetland Hydrology Indicators:				
Primary Indicators (minimum of o	ne is required; check all f	that apply)	Secondary Indicators (minimum	of two required)
Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2)	Water- Aquati Marl D Hydro; Oxidiz	-Stained Leaves (B9) ic Fauna (B13) Jeposits (B15) gen Sulfide Odor (C1) ed Rhizospheres on Living Roots (C3)	<ul> <li>Surface Soil Cracks (B6)</li> <li>Drainage Patterns (B10)</li> <li>Moss Trim Lines (B16)</li> <li>Dry-Season Water Table (C2)</li> <li>Crayfish Burrows (C8)</li> <li>Saturation Visible on Aerial Ir</li> </ul>	nagery (C9)
<ul> <li>Drift Deposits (B3)</li> <li>Algal Mat or Crust (B4)</li> <li>Iron Deposits (B5)</li> <li>Inundation Visible on Aerial Im</li> <li>Sparsely Vegetated Concave Summary Sparsely Vegetated Concave Sparsely Vegetated Concave Sparsely Veg</li></ul>	Preser Recent Thin M agery (B7) Other urface (B8)	nce of Reduced Iron (C4) t Iron Reduction in Tilled Soils (C6) luck Surface (C7) (Explain in Remarks)	<ul> <li>Stunted or Stressed Plants (D</li> <li>Geomorphic Position (D2)</li> <li>Shallow Aquitard (D3)</li> <li>Microtopographic Relief (D4)</li> <li>FAC-Neutral Test (D5)</li> </ul>	1)
Field Observations:				
Surface Water Present?	Yes No 🟒	Depth (inches):		
Water Table Present?	Yes No 🟒	Depth (inches):	Wetland Hydrology Present?	Yes No 🟒
Saturation Present?	Yes No 🟒	Depth (inches):		
(includes capillary fringe)			_	
Describe Recorded Data (stream g	auge, monitoring well, a	erial photos, previous inspections), i	f available:	

VEGETATION -- Use scientific names of plants.

Sampling Point: W-NSD-12\_UPL-1

/er //er	Are OBL, FACW, or FAC:         Total Number of Dominant Sp.         Across All Strata:         Percent of Dominant Sp.         Are OBL, FACW, or FAC:         Prevalence Index works         OBL species         FACW species         FACU species         FACU species         Our DL species         Column Totals         Prevalence Index for H         2 - Dominance Tes         3 - Prevalence Index         4 - Morphological         data in Remarks or on a	hant Species pecies That of: 0 25 17 65 0 107 dex = $B/A =$ hudicators: Hydrophytic V st is > 50% ex is $\leq 3.0^1$ Adaptations <sup>1</sup>	2 50 $Multiply   x 1 = x 2 = x 3 = x 4 = x 5 = (A) 3.4 egetation$	(A) (B) (A/B) <b>By:</b> 0 50 51 260 0 361 (B)
/er /er	<ul> <li>Total Number of Domin Across All Strata:</li> <li>Percent of Dominant Sp Are OBL, FACW, or FAC:</li> <li>Prevalence Index works</li> <li><u>Total % Cover</u></li> <li>OBL species</li> <li>FACW species</li> <li>FACW species</li> <li>FACU species</li> <li>Column Totals</li> <li>Prevalence In</li> <li>Hydrophytic Vegetation</li> <li>1- Rapid Test for H</li> <li>2 - Dominance Test</li> <li>3 - Prevalence Index</li> <li>4 - Morphological</li> <li>data in Remarks or on a</li> </ul>	hant Species pecies That of: 0 25 17 65 0 107 dex = $B/A =$ hudicators: Hydrophytic V st is > 50% ex is $\leq 3.0^1$ Adaptations <sup>1</sup>	2 50 $Multiply 1$ $x 1 = -$ $x 2 = -$ $x 3 = -$ $x 4 = -$ $x 5 = -$ $(A) -$ $3.4$ (egetation) (Provide s)	(B) (A/B) <b>By:</b> 0 50 51 260 0 361 (B)
/er //er	<ul> <li>Percent of Dominant Sp.</li> <li>Are OBL, FACW, or FAC:</li> <li>Prevalence Index works</li> <li>Iotal % Cover of Cover</li></ul>	pecies That of: 0 25 17 65 0 107 dex = $B/A =$ h Indicators: Hydrophytic V st is > 50% ex is $\leq 3.0^1$ Adaptations <sup>1</sup>	50 $Multiply 1 x 1 = x 2 = x 3 = x 4 = x 5 =(A) (A) (egetation (Provide s)$	(A/B) <b>By:</b> 0 50 51 260 0 361 (B) 
/er /er /er FACU FACW	<ul> <li>Prevalence Index works</li> <li><u>Total % Cover</u></li> <li>OBL species</li> <li>FACW species</li> <li>FAC species</li> <li>FACU species</li> <li>Golumn Totals</li> <li>Orevalence In</li> <li>Hydrophytic Vegetation</li> <li>1- Rapid Test for H</li> <li>2 - Dominance Tes</li> <li>3 - Prevalence Index</li> <li>4 - Morphological</li> <li>data in Remarks or on a</li> </ul>	sheet: 0 25 17 65 0 107 dex = $B/A =$ hundicators: Hydrophytic V st is > 50% ex is $\leq 3.0^1$ Adaptations <sup>1</sup>	Multiply 1 x 1 = x 2 = x 3 = x 4 = x 5 = (A) 3.4 (egetation	By: 0 50 51 260 0 361 (B) 
/er /er /er FACU FACW	<ul> <li>Total % Cover of Total % Cover of OBL species</li> <li>FACW species</li> <li>FACU species</li> <li>FACU species</li> <li>UPL species</li> <li>UPL species</li> <li>Column Totals</li> <li>Prevalence In</li> <li>Hydrophytic Vegetation</li> <li>1- Rapid Test for H</li> <li>2 - Dominance Tes</li> <li>3 - Prevalence Indo</li> <li>4 - Morphological</li> <li>data in Remarks or on a</li> </ul>	of: 0 25 17 65 0 107 107 107 107 107 107 107	$\begin{array}{r} \text{Multiply I} \\ x 1 = \\ x 2 = \\ x 3 = \\ x 4 = \\ (A) \\ 3.4 \end{array}$	By: 0 50 51 260 0 361 (B) 
/er /er /FACU FACW	OBL species     FACW species     FAC species     FACU species     UPL species     OBL species     UPL species     Ourn Totals    1- Rapid Test for H    2 - Dominance Tes    3 - Prevalence Indu    4 - Morphological     data in Remarks or on a	0 25 17 65 0 107 107 107 107 107 107 107	$\begin{array}{c} x & 1 = \\ x & 2 = \\ x & 3 = \\ x & 4 = \\ x & 5 = \\ (A) \\ 3.4 \end{array}$	0 50 51 260 0 361 (B)
rer  rer  FACU FACW	FACW species         FAC species         FACU species         FACU species         UPL species         Column Totals         Prevalence In         Hydrophytic Vegetation         1- Rapid Test for H        2 - Dominance Tes         3 - Prevalence Index         4 - Morphological         data in Remarks or on a	$\frac{0}{25}$ $\frac{17}{65}$ $0$ $\frac{107}{10}$ $$	x 2 = x 3 = x 4 = x 5 = (A) 3.4	50 51 260 0 361 (B)
 /er FACU FACW	<ul> <li>FAC species</li> <li>FACU species</li> <li>FACU species</li> <li>UPL species</li> <li>Column Totals</li> <li>Prevalence In</li> <li>Hydrophytic Vegetation</li> <li>1 - Rapid Test for H</li> <li>2 - Dominance Test</li> <li>3 - Prevalence Index</li> <li>4 - Morphological</li> <li>data in Remarks or on a</li> </ul>	$\frac{23}{17}$ $\frac{65}{0}$ $\frac{107}{107}$ $\frac{107}{10}$ $107$	x 2	50 51 260 0 361 (B)
/er FACU FACW	<ul> <li>FAC species</li> <li>FACU species</li> <li>UPL species</li> <li>Column Totals</li> <li>Prevalence In</li> <li>Hydrophytic Vegetation</li> <li>1 - Rapid Test for H</li> <li>2 - Dominance Test</li> <li>3 - Prevalence Index</li> <li>4 - Morphological</li> <li>data in Remarks or on a</li> </ul>	$\frac{17}{65}$ $\frac{1}{107}$ $\frac{1}{107}$ $\frac{1}{101}$ $\frac{1}$	x 3	260 0 361 (B)
 /er  FACU FACW	PACO species     UPL species     Column Totals     Prevalence In     Hydrophytic Vegetation    1- Rapid Test for H    2 - Dominance Tes    3 - Prevalence Inde    4 - Morphological     data in Remarks or on a	$\frac{65}{0}$ $\frac{107}{10}$ $\frac{107}{10}$ $\frac{100}{10}$ $100$	x 4 = x 5 = (A) 3.4 /egetation	0 361 (B)
/er FACU FACW	Column Totals     Column Totals     Prevalence In     Hydrophytic Vegetation    1 - Rapid Test for H    2 - Dominance Tes    3 - Prevalence Inde    4 - Morphological     data in Remarks or on a	0 107 107 107 107 107 107 107 107	(A) (A) (egetation	0 361 (B)
/er FACU FACW	Column lotals     Prevalence In     Hydrophytic Vegetation    1- Rapid Test for H    2 - Dominance Tes    3 - Prevalence Inde    4 - Morphological     data in Remarks or on a	107 dex = B/A =1 dex = B/A =1 $dex = B/A = _$	(A)  /egetation	<u>361 (B)</u>
/er FACUFACW	Prevalence In     Hydrophytic Vegetation    1- Rapid Test for H    2 - Dominance Tes    3 - Prevalence Indu    4 - Morphological     data in Remarks or on a	Index = $B/A = \frac{1}{2}$ Indicators: Hydrophytic V st is > 50% lex is ≤ 3.01 Adaptations <sup>1</sup>	<u>3.4</u> /egetation	
FACU	<ul> <li>Hydrophytic Vegetation</li> <li>1- Rapid Test for H</li> <li>2 - Dominance Tes</li> <li>3 - Prevalence Inde</li> <li>4 - Morphological</li> <li>data in Remarks or on a</li> </ul>	a Indicators: Hydrophytic V st is > 50% lex is ≤ $3.0^1$ Adaptations <sup>1</sup>	egetation (Provide s	
/er FACU FACW	<ul> <li>1 - Rapid Test for H</li> <li>2 - Dominance Test</li> <li>3 - Prevalence Indet</li> <li>4 - Morphological</li> <li>data in Remarks or on a</li> </ul>	Hydrophytic V st is > 50% ex is ≤ $3.0^1$ Adaptations <sup>1</sup>	egetation (Provide s	
FACU FACW	<ul> <li>2 - Dominance Tes</li> <li>3 - Prevalence Inde</li> <li>4 - Morphological</li> <li>data in Remarks or on a</li> </ul>	st is > 50% ex is $\leq 3.0^1$ Adaptations <sup>1</sup>	(Provide s	
FACU FACW	<ul> <li>3 - Prevalence Inde</li> <li>4 - Morphological</li> <li>data in Remarks or on a</li> </ul>	ex is $\leq 3.0^1$ Adaptations <sup>1</sup>	(Provide s	
FACU FACW	4 - Morphological data in Remarks or on a	Adaptations <sup>1</sup>	(Provide s	
FACU	<ul> <li>data in Remarks or on a</li> </ul>	a conarato ch		supporting
FACVV		a separate si	ieet)	
FACU	Problematic Hydro	ophytic Veget	tation <sup>1</sup> (Ex	plain)
FACU	<ul> <li><sup>1</sup>Indicators of hydric soi</li> </ul>	il and wetland	d hydrolog	gy must be
FAC	_ present, unless disturbe	ed or probler	matic	
FACU	Definitions of Vegetatio	on Strata:		
	Tree – Woody plants 3 in	n. (7.6 cm) or	more in c	liameter at
	breast height (DBH), reg	gardless of he	eight.	
	Sapling/shrub – Woody	plants less th	han 3 in. D	BH and
	greater than or equal to	o 3.28 ft (1 m)	) tall.	
	Herb – All herbaceous (	non-woody)	plants, reg	ardless of
			o It tall.	20.ft in
	- height	iy vines great	er triari 5.	201111
/er		-	, .	
	Hydrophytic Vegetation	n Present? Y	/es N	0 _
	_			
	-			
	-			
~	ver	height.       Hydrophytic Vegetatio       Hydrophytic Vegetatio       Hydrophytic Vegetatio       Hydrophytic Vegetatio	height.       Hydrophytic Vegetation Present?       Hydrophytic Vegetation Present?       Normalization	height.           Hydrophytic Vegetation Present?         Yes N           .

SOIL

Sampling Point: W-NSD-12\_UPL-1

(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Tex	ture Remarks
0 - 17	10YR 3/2	100		·			Silty Cla	ay Loam
				·				
				. <u> </u>				
ype: C = C	oncentration, D = L	Jepletio	n, RM = Reduced	Mati	rix, MS = 1	Masked Sar	d Grains. <sup>2</sup> L	Location: PL = Pore Lining, M = Matrix.
_ Histosol _ Histic Ep _ Black Hi: _ Hydroge _ Stratified _ Depleted _ Thick Da _ Sandy M _ Sandy G _ Sandy R _ Strippec _ Dark Su	(A1) ipedon (A2) stic (A3) an Sulfide (A4) d Layers (A5) d Below Dark Surfa rk Surface (A12) lucky Mineral (S1) leyed Matrix (S4) edox (S5) I Matrix (S6) rface (S7) (LRR R, M	ice (A11) ILRA 149	<ul> <li>Polyvalue Bel</li> <li>Thin Dark Sur</li> <li>Loamy Mucky</li> <li>Loamy Gleyed</li> <li>Depleted Mat</li> <li>Redox Dark S</li> <li>Depleted Dar</li> <li>Redox Depres</li> </ul>	ow S face / Min d Ma crix (F urfac k Sui ssior	urface (S8 (S9) <b>(LRR</b> eral (F1) <b>(</b> trix (F2) <sup>-3</sup> ) :e (F6) :face (F7) is (F8)	3) (LRR R, M R, MLRA 14 LRR K, L)	LRA 149B) 9B)	<ul> <li>2 cm Muck (A10) (LRR K, L, MLRA 149B)</li> <li>Coast Prairie Redox (A16) (LRR K, L, R)</li> <li>5 cm Mucky Peat or Peat (S3) (LRR K, L, R)</li> <li>Dark Surface (S7) (LRR K, L)</li> <li>Polyvalue Below Surface (S8) (LRR K, L)</li> <li>Thin Dark Surface (S9) (LRR K, L)</li> <li>Iron-Manganese Masses (F12) (LRR K, L, R)</li> <li>Piedmont Floodplain Soils (F19) (MLRA 149B)</li> <li>Mesic Spodic (TA6) (MLRA 144A, 145, 149B)</li> <li>Red Parent Material (F21)</li> <li>Very Shallow Dark Surface (TF12)</li> <li>Other (Explain in Remarks)</li> </ul>
ndicators (	of hydrophytic vege	etation a	and wetland hydr	ology	/ must be	e present, u	nless disturbe	ed or problematic.
estrictive L	ayer (il observed): Type: Depth (inches):		None			Hydric Soi	Present?	Yes No

Vegetation Photos



Soil Photos

Photo of Sample Plot North



Photo of Sample Plot East Photo of Sample Plot South



Photo of Sample Plot West

# WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Riverside Solar	City/County: Chaumont, Jefferson	Sampling Date: 2020-June-05
Applicant/Owner: Geronimo	State: NY	Sampling Point: W-NSD-13_PEM-1
Investigator(s): Nick DeJohn, Other, Ben Popham	Section, Township, Range:	
Landform (hillslope, terrace, etc.): Depression	Local relief (concave, convex, none)	Concave Slope (%): 0 to 1
Subregion (LRR or MLRA): LRR R	Lat: 44.064529608 Long	-76.0891337414 Datum: WGS84
Soil Map Unit Name: GvGuffin clay		NWI classification:
Are climatic/hydrologic conditions on the site typical	for this time of year? Yes _∠_ No (If n	o, explain in Remarks.)
Are Vegetation,       Soil,       or Hydrology         Are Vegetation,       Soil,       or Hydrology	significantly disturbed? Are "Normal Circums naturally problematic? (If needed, explain a	stances" present? Yes 🖌 No ny answers in Remarks.)

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

Hydrophytic Vegetation Present?	Yes 🟒 No		
Hydric Soil Present?	Yes 🟒 No	Is the Sampled Area within a Wetland?	Yes 🯒 No _
Wetland Hydrology Present?	Yes 🟒 No	If yes, optional Wetland Site ID:	W-NSD-13
Remarks: (Explain alternative procedur	res here or in a separate repo	ort)	
Covertype is PEM.			

#### HYDROLOGY

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

VEGETATION -- Use scientific names of plants.

Sampling Point: W-NSD-13\_PEM-1

Tree Stratum (Plot size: <u>30 ft</u> )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test work Number of Dominant	<mark>sheet:</mark> Species That	4	
1.				Are OBL, FACW, or FA	C:	Ĩ	(A)
2				Total Number of Dom	inant Species	1	(D)
3				Across All Strata:		I	(B)
4				Percent of Dominant	Species That	100	(A/R)
5				Are OBL, FACW, or FAC	C:		(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
6				Prevalence Index wor	ksheet:		
7		·		- <u>Total % Cove</u>	<u>r of:</u>	Multiply E	<u>By:</u>
<i>.</i>		- Total Cov	or	- OBL species	95	x 1 =	95
Capling/Chruh Stratum (Dist size) 15 ft )	0		ei	FACW species	0	x 2 =	0
<u>sapiing/siirub stratum</u> (Piot size. <u>13 it</u> )				FAC species	10	x 3 =	30
l		·		- FACU species	0	x 4 =	0
2				- UPL species	0	x 5 =	0
3.				- Column Totals	105	(A)	125 (B)
4				Prevalence	Index = B/A =	1.2	
5				Hydrophytic Vegetatic	on Indicators:		
6				- 1- Rapid Test for	Hydrophytic V	egetation	
7				- 2 - Dominance To	est is >50%	-8	
	0	= Total Cov	er	✓ 3 - Prevalence In	dex is $< 3.0^1$		
<u>Herb Stratum</u> (Plot size: <u>5 ft</u> )				4 - Morphologica	al Adaptations	Provide s	unnorting
1. <i>Carex lacustris</i>	75	Yes	OBL	- data in Remarks or or	a separate sh	(Frovide S	apporting
2. Typha angustifolia	20	No	OBL	Problematic Hvd	lrophytic Vege	tation <sup>1</sup> (Exp	plain)
3. <i>Euthamia graminifolia</i>	10	No	FAC	- <sup>1</sup> Indicators of hydric s	oil and wetlan	d hvdrolog	v must be
4				present, unless distur	bed or proble	matic	,
5.				Definitions of Vegetat	ion Strata:		
6.				Tree – Woody plants 3	in. (7.6 cm) oi	r more in d	iameter at
7.				breast height (DBH), r	egardless of h	eight.	
8.		·		Sapling/shrub – Wood	ly plants less t	han 3 in. D	BH and
9.				greater than or equal	to 3.28 ft (1 m	) tall.	
10.				- Herb – All herbaceous	(non-woody)	plants, reg	ardless of
11.				size, and woody plant	s less than 3.2	8 ft tall.	
12				Woody vines – All woo	ody vines great	ter than 3.2	28 ft in
	105	= Total Cov	er	height.			
Woody Vine Stratum (Plot size: 30 ft )	105	- 10001 000	CI	Hydrophytic Vegetati	on Present?	/es 🟒 No	o
1							
1				-			
2.				-			
3				-			
4		·		-			
	0	= Total Cov	er				

SOIL

Lencery         Am         Color (minolay)         Am         Type         Lock         Texture         Refinition           -20         2.5Y 4/1         90         7.5YR 4/6         5         C         M/PL         Sitty Clay Loam	converting       Am       Converting       Am       Type       Converting       Nethranks         1.20       2.5Y 4/1       90       7.5YR 4/6       5       C       M/PL       Sity Clay Learn         1.20       2.5Y 4/1       90       7.5YR 4/6       5       C       M/PL       Sity Clay Learn         1.20       2.5Y 4/1       90       7.5YR 4/6       10       C       M       Clay Loarn         1.20       2.5Y 4/1       90       7.5YR 4/6       10       C       M/PL       Light Clay Learn         1.20       2.5Y 4/1       90       7.5YR 4/6       10       C       M/PL       Light Clay Learn         1.20       2.5Y 4/1       90       7.5YR 4/6       10       C       M       Clay Learn         1.20       2.5Y 4/1       90       7.5YR 4/6       10       C       M       Clay Learn         1.20       <	nches)	Color (moist)	06	Color (moist)	06	Type1	L oc²	Tovt	Ire	Remarks
2 0       101K 3J2       32       7.5/K 4/6       10       C       M       Clay Loam         - 20       2.5/Y 4/1       90       7.5/K 4/6       10       C       M       Clay Loam         - 20       2.5/Y 4/1       90       7.5/K 4/6       10       C       M       Clay Loam         - 20       2.5/Y 4/1       90       7.5/K 4/6       10       C       M       Clay Loam         - 20       2.5/Y 4/1       90       7.5/K 4/6       10       C       M       Clay Loam         - 20       <	2 - 20       101K 3/2       3/2       7.15K 4/3       J       C       M/TL       July Clay Loam         - 20       2.5Y 4/1       90       7.5YR 4/6       10       C       M       Clay Loam         - 20       2.5Y 4/1       90       7.5YR 4/6       10       C       M       Clay Loam         - 20       2.5Y 4/1       90       7.5YR 4/6       10       C       M       Clay Loam         - 20       2.5Y 4/1       90       7.5YR 4/6       10       C       M       Clay Loam         - 20       2.5Y 4/1       90       7.5YR 4/6       10       C       M       Clay Loam         - 20       2.5Y 4/1       90       7.5YR 4/6       10       C       M       Clay Loam         - 20       2.5Y 4/1       90       7.5YR 4/6       10       C       M       Clay Loam         - 20       -						<u>Type</u>		Silty Clay		Reillarks
Los Aria       Z       Jos Induco       Ios       C       Inductors         Image: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. <sup>2</sup> Location: PL = Pore Lining, M = Matrix.         Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)	Image: Solution of the second sec	6 - 20	2 57 4/1	90	7.5YR 4/6				Clav I		
pe: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. <sup>2</sup> Location: PL = Pore Lining, M = Matrix.         Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, MLRA 149B)         Histosol (A2)       Thin Dark Surface (S9) (LRR R, MLRA 149B)         Black Histic (A3)       Loamy Mucky Mineral (F1) (LRR K, L)         Hydrogen Sulfide (A4)       Loamy Gleyed Matrix (F2)         Startified Layers (A5)       ✓ Depleted Dark Surface (F6)         Thic Dark Surface (A11)       Redox Dark Surface (F7)         Sandy Gleyed Matrix (S4)       Redox Depressions (F8)         Sandy Redox (S5)       Red Parent Material (F21)         Stripped Matrix (S6)       Very Shallow Dark Surface (T12)         Dark Surface (S7) (LRR R, MLRA 149B)       Red Parent Material (F21)         Very Shallow Dark Surface (T12)       Very Shallow Dark Surface (T12)         Sandy Gleyed Matrix (S6)       Very Shallow Dark Surface (T12)         Dark Surface (S7) (LRR R, MLRA 149B)       Very Shallow Dark Surface (T12)         Stripped Matrix (S6)       Hydric Soil Present?       Very Shallow Dark Surface (T12)         Yery (f observed):       None       Hydric Soil Present?       Yes _/_ No	pe: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. <sup>2</sup> Location: PL = Pore Lining, M = Matrix.         Indicators:       Indicators for Problematic Hydric Soils?         Histic Epipedon (A2)       Thin Dark Surface (S9) (LRR R, MLRA 149B)         Black Histic (A3)       Loamy Mucky Mineral (F1) (LRR K, L)         Hydrogen Suffide (A4)       Loamy Gleyed Matrix (F2)         Depleted Boark Surface (F6)       Thin Dark Surface (F6)         Thick Soil Present?       Thin Dark Surface (S9) (LRR K, L)         Sandy Reged Matrix (S4)	0-20	2.31 4/1		7.511(4/0	10			Cidy L	oann	
pe: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. <sup>2</sup> Location: PL = Pore Lining, M = Matrix.         Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, MLRA 149B)         Histosol (A1)       Loamy Mucky Mineral (F1) (LRR K, L)         Black Histic (A3)       Loamy Mucky Mineral (F1)         Hydrogen Sulfide (A4)       Loamy Gleyed Matrix (F2)         Stratified Layers (A5)       ✓ Depleted Matrix (F3)         Depleted Below Dark Surface (A11) // Redox Dark Surface (F6)       Thin Dark Surface (F3)         Sandy Mucky Mineral (S1)       Redox Depressions (F8)         Sandy Redox (S5)       Red Parent Material (F21)         Striface G57) (LRR R, MLRA 149B)       Red Parent Material (F21)         Sandy Redox (S5)       Very Shallow Dark Surface (T12)         Stripped Matrix (S6)       Very Shallow Dark Surface (T12)         Dark Surface (S7) (LRR R, MLRA 149B)       Red Parent Material (F21)         Stripped Matrix (S6)       Very Shallow Dark Surface (T12)         Dark Surface (S7) (LRR R, MLRA 149B)       Very Shallow Dark Surface (T12)         Stripped Matrix (S6)       Hydric Soil Present?         Yery Shallow Dark Surface (S7) (LRR R, MLRA 149B)       Yery Shallow Dark Surface (T12)         Derk Surface (S7) (LRR R, MLRA 149B)       Hydri	pe: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. <sup>2</sup> Location: PL = Pore Lining, M = Matrix.         Indicators:       Indicators for Problematic Hydric Soils*.         Histosol (A1)			· —		·					
pe: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. <sup>2</sup> Location: PL = Pore Lining, M = Matrix.         Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)      Polyvalue Below Surface (S8) (LRR R, MLRA 149B)         Histosol (A2)      Thin Dark Surface (S9) (LR R, MLRA 149B)         Black Histic (A3)      Loamy Mucky Mineral (F1) (LRR K, L)         Hydrogen Sulfide (A4)      Loamy Gleyed Matrix (F2)         Stratified Layers (A5)      Depleted Matrix (F3)         Depleted Below Dark Surface (F6)      Dark Surface (F7)         Sandy Mucky Mineral (S1)      Redox Dark Surface (F7)         Sandy Mucky Mineral (S1)      Redox Depressions (F8)         Sandy Redox (S5)	pe: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. <sup>2</sup> Location: PL = Pore Lining, M = Matrix.         Indicators:       Indicators for Problematic Hydric Soils?:         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, MLRA 149B)         Histor (S2)       Thin Dark Surface (S9) (LR R, MLRA 149B)         Black Histic (A3)       Loamy Mucky Mineral (F1) (LRR K, L)         Hydrogen Sulfide (A4)       Loamy Gleyed Matrix (F2)         Depleted Below Dark Surface (A11) / Redox Dark Surface (F6)       Thin Dark Surface (S7) (LRR K, L)         Stratified Layers (A5)       Depleted Dark Surface (F7)         Stratified Layers (A5)       Depleted Dark Surface (F7)         Sandy Micky Mineral (F1)       Redox Depressions (F8)         Sandy Kedx (S5)       Redox Depressions (F8)         Sandy Redox (S5)       Red Parent Material (F21)         Stripped Matrix (S6)       Wery Shallow Dark Surface (T12)         Dark Surface (S7) (LRR R, MLRA 149B)       Other (Explain in Remarks)         dicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.         Tripe:       None         Depth (inches):       None         Depth (inches):       Hydric Soil Present?         Yers       Yes No			· —		·					
pe: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains.       *Location: PL = Pore Lining, M = Matrix.         Indicators:       Indicators for Problematic Hydric Soils*:         Histosol (A1)	pe: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains.       *Location: PL = Pore Lining, M = Matrix.         Indicators:       Indicators for Problematic Hydric Soils*         Histosol (A1)       Polyvalue Below Surface (S9) (LRR R, MLRA 149B)       _2 cm Muck (A10) (LRR K, L, MLRA 149B)         Histosol (A2)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       _2 cm Muck (A10) (LRR K, L, MLRA 149B)         Black Histic (A3)       _Loamy Mucky Mineral (F1) (LRR K, L)       _5 cm Mucky Peat or Peat (S3) (LRR K, L)         Yetratified Layers (A5)      Depleted Matrix (F2)      Dark Surface (S7) (LRR K, L)         Depleted Below Dark Surface (A11) _       Redox Dark Surface (F7)										
pe: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. <sup>2</sup> Location: PL = Pore Lining, M = Matrix.         fric Soil Indicators:       Indicators for Problematic Hydric Soils?         Histosol (A1)	pe: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. <sup>2</sup> Location: PL = Pore Lining, M = Matrix.         Indicators:       Indicators for Problematic Hydric Soils*:         Histosol (A1)      Polyvalue Below Surface (S8) (LRR R, MLRA 149B)      2 cm Muck (A10) (LRR K, L, MLRA 149B)         Black Histic (A3)										
pe: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains.       ²Location: PL = Pore Lining, M = Matrix.         Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)      Polyvalue Below Surface (S8) (LRR R, MLRA 149B)         Black Histic (A3)      Loamy Mucky Mineral (F1) (LRR K, L)         Hydrogen Sulfide (A4)      Loamy Gleyed Matrix (F2)         Stratified Layers (A5)      Depleted Matrix (F3)         Depleted Below Dark Surface (A11)      Redox Dark Surface (F6)         Thin Dark Surface (F7)      Dopleted Dark Surface (F7)         Sandy Gleyed Matrix (S4)      Depleted Dark Surface (F7)         Sandy Gleyed Matrix (S6)	pe: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains.       ?Location: PL = Pore Lining, M = Matrix.         tric Soil Indicators:       Indicators for Problematic Hydric Soils?:         Histic Spipedon (A2)		-								
pe: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. <sup>2</sup> Location: PL = Pore Lining, M = Matrix.         dric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>2</sup> :         Histosol (A1)      Polyvalue Below Surface (S8) (LRR R, MLRA 149B)         Histic Epipedon (A2)      Thin Dark Surface (S9) (LRR K, L)         Black Histic (A3)      Loamy Mucky Mineral (F1) (LRR K, L)         Hydrogen Sulfide (A4)      Loamy Gleyed Matrix (F2)         Stratified Layers (A5)      Depleted Matrix (F3)         Depleted Below Dark Surface (A11)      Redox Dark Surface (F7)         Thick Dark Surface (A12)      Depleted Dark Surface (F7)         Sandy Mucky Mineral (S1)      Redox Depressions (F8)         Sandy Gleyed Matrix (S6)	pe: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. <sup>2</sup> Location: PL = Pore Lining, M = Matrix.         tric Soil Indicators:         Histosol (A1)      Polyvalue Below Surface (S9) (LRR R, MLRA 149B)         Histic Epipedon (A2)										
pe: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains.       ?Location: PL = Pore Lining, M = Matrix.         Iric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>2</sup> :         Histosol (A1)	pe: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. <sup>2</sup> Location: PL = Pore Lining, M = Matrix.         Indicators:       Indicators for Problematic Hydric Soils*:         Histosol (A1)										
pe: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains.       ²Location: PL = Pore Lining, M = Matrix.         Iric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)      Polyvalue Below Surface (S8) (LRR R, MLRA 149B)         Histic Epipedon (A2)	pe: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains.       ²Location: PL = Pore Lining, M = Matrix.         Iric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)      Polyvalue Below Surface (S9) (LRR R, MLRA 149B)      2 cm Muck (A10) (LRR K, L, MLRA 149B)         Histic Epipedon (A2)										
per C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains.       -Location: PL = Pore Lining, M = Matrix.         tric Soil Indicators:       Indicators:         Histosol (A1)	per C Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains, *Location: PL = Pore Lining, M = Matrix.         dric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)			<u> </u>				Maria	d Cusins 21		Lining Advantur
Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, MLRA 149B)         Histosol (A2)       Thin Dark Surface (S9) (LRR R, MLRA 149B)         Black Histic (A3)       Loamy Mucky Mineral (F1) (LRR K, L)         Hydrogen Sulfide (A4)       Loamy Gleyed Matrix (F2)         Stratified Layers (A5)       ✓ Depleted Matrix (F3)         Depleted Below Dark Surface (A11)       Redox Dark Surface (F6)         Thick Dark Surface (A12)       Depleted Dark Surface (F7)         Sandy Mucky Mineral (S1)       Redox Depressions (F8)         Sandy Redox (S5)       Mexic Sol         Stripped Matrix (S6)       Mexic Sol         Dark Surface (S7) (LRR R, MLRA 149B)       Mesic Spodic (TA6) (MLRA 144A, 145, 149B)         Siticators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.       Yes _/_ No         Type:       None       Hydric Soil Present?       Yes _/_ No	Init Status	pe: C = C dric Soil	_oncentration, D =	Deplet	10n, RW = Reduce		trix, ivis =	= Masked Sar	id Grains. <sup>2</sup> L	lpdicators for Pr	Lining, M = Matrix.
Instact (A3)	Instruction	Histoso			Polyvalue F	പ്പം	Surface (		I RA 149R)		
Black Histic (A3)      Loamy Mucky Mineral (F1) (LRR K, L)      Coast Prainter Redux (A10) (LRR K, L, R)         Hydrogen Sulfide (A4)      Loamy Gleyed Matrix (F2)      S cm Mucky Peat or Peat (S3) (LRR K, L, R)         Stratified Layers (A5)      Depleted Matrix (F3)      Dark Surface (S7) (LRR K, L)         Depleted Below Dark Surface (A11) Redox Dark Surface (F6)      Depleted Dark Surface (F7)      Diron-Manganese Masses (F12) (LRR K, L)         Sandy Mucky Mineral (S1)      Redox Depressions (F8)      Piedmont Floodplain Soils (F19) (MLRA 149B)         Sandy Redox (S5)	Black Histic (A3)       Loamy Mucky Mineral (F1) (LRR K, L)       Coast F1 and Record (M3) (LRR K, L, R)         Hydrogen Sulfide (A4)       Loamy Gleyed Matrix (F2)       S cm Mucky Peat or Peat (S3) (LRR K, L)         Stratified Layers (A5)       Depleted Matrix (F3)       Dark Surface (S7) (LRR K, L)         Depleted Below Dark Surface (A11)       Redox Dark Surface (F6)       Thin Dark Surface (S9) (LRR K, L)         Thick Dark Surface (A12)       Depleted Dark Surface (F7)       Iron-Manganese Masses (F12) (LRR K, L, R)         Sandy Mucky Mineral (S1)       Redox Depressions (F8)       Iron-Manganese Masses (F12) (LRR K, L, R)         Sandy Redox (S5)       Mexica (A12)       Depleted Dark Surface (F7)       Iron-Manganese Masses (F12) (LRR K, L, R)         Sandy Gleyed Matrix (S4)       Nedox Depressions (F8)       Nesic Spodic (TA6) (MLRA 144A, 145, 149B)         Sandy Redox (S5)	Histic E	pipedon (A2)		Thin Dark S	Surfac	e (S9) <b>(LR</b>	R R, MLRA 14	9B)	2 cm Muck (A	A10) (LRR K, L, MLRA 149B)
Hydrogen Sulfide (A4)      Loamy Gleyed Matrix (F2)      Dark Surface (A10)         Stratified Layers (A5)      Depleted Matrix (F3)      Dark Surface (S7) (LRR K, L)         Depleted Below Dark Surface (A11)      Redox Dark Surface (F6)          Thick Dark Surface (A12)      Depleted Dark Surface (F7)          Sandy Mucky Mineral (S1)	Hydrogen Sulfide (A4)Loamy Gleyed Matrix (F2)Dark Surface (S7) (LRR K, L)   Stratified Layers (A5)Depleted Matrix (F3)Dark Surface (S7) (LRR K, L)   Depleted Below Dark Surface (A11)Redox Dark Surface (F6)Thin Dark Surface (S9) (LRR K, L)   Thin Dark Surface (A12)Depleted Dark Surface (F7)Inon-Manganese Masses (F12) (LRR K, L, R)   Sandy Mucky Mineral (S1)Redox Depressions (F8)Inon-Manganese Masses (F12) (LRR K, L, R)   Sandy Redox (S5)Red Parent Material (F21)None   Stripped Matrix (S6)NoneNote   Dark Surface (S7) (LRR R, MLRA 149B)Other (Explain in Remarks)   dicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematicNo   trictive Layer (if observed):NoneNo	Black H	istic (A3)		Loamy Muc	:ky Mi	neral (F1	) (LRR K, L)		5 cm Mucky	Peat or Peat (S3) (I RR K. L. R)
Stratified Layers (A5)       ✓ Depleted Matrix (F3)       Polyvalue Below Surface (S8) (LRR K, L)         Depleted Below Dark Surface (A11)       Redox Dark Surface (F6)       Thin Dark Surface (S9) (LRR K, L)         Thick Dark Surface (A12)       Depleted Dark Surface (F7)       Iron-Manganese Masses (F12) (LRR K, L, R)         Sandy Mucky Mineral (S1)       Redox Depressions (F8)       Piedmont Floodplain Soils (F19) (MLRA 149         Sandy Redox (S5)       Mesic Spodic (TA6) (MLRA 144A, 145, 149B)       Red Parent Material (F21)         Stripped Matrix (S6)       Red Parent Material (F21)       Very Shallow Dark Surface (TF12)         Dark Surface (S7) (LRR R, MLRA 149B)       Other (Explain in Remarks)         dicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.       Yes _/ No         Type:       None       Hydric Soil Present?       Yes _/ No         Depth (inches):       Hydric Soil Present?       Yes _/ No	Stratified Layers (A5)  Depleted Matrix (F3)    Depleted Below Dark Surface (A11) Redox Dark Surface (F6)   Thick Dark Surface (A12) Depleted Dark Surface (F7)   Sandy Mucky Mineral (S1) Redox Depressions (F8)   Sandy Gleyed Matrix (S4) Piedmont Floodplain Soils (F19) (MLRA 1448, 145, 1498)   Sandy Redox (S5) Red Parent Material (F21)   Stripped Matrix (S6) Very Shallow Dark Surface (TF12)   Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks)   dicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.   trictive Layer (if observed):   Type:   None   Depth (inches):   Hydric Soil Present?    Yes No	Hydrog	en Sulfide (A4)		Loamy Gley	/ed M	atrix (F2)			Dark Surface	e (S7) (LRR K. L)
Depleted Below Dark Surface (A11) / Redox Dark Surface (F6)	Depleted Below Dark Surface (A11) Redox Dark Surface (F6)   Thick Dark Surface (A12) Depleted Dark Surface (F7)   Sandy Mucky Mineral (S1) Redox Depressions (F8)   Sandy Gleyed Matrix (S4) Piedmont Floodplain Soils (F19) (MLRA 1498)   Sandy Redox (S5) Red Parent Material (F21)   Stripped Matrix (S6) Very Shallow Dark Surface (TF12)   Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks)   dicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.   strictive Layer (if observed):   Type:   None   Depth (inches):   Hydric Soil Present? Yes No No	_ Stratifie	ed Layers (A5)		Depleted M	latrix	(F3)			Polyvalue Be	low Surface (S8) (LRR K, L)
Thick Dark Surface (A12)	Thick Dark Surface (A12)	Deplete	ed Below Dark Surf	ace (A1	1) Redox Dark	(Surfa	ace (F6)	7)		Thin Dark Su	urface (S9) <b>(LRR K, L)</b>
Sandy Mucky Mineral (S1)	Sandy Mutcky Minerar (31)                Sandy Gleyed Matrix (S4)   Sandy Redox (S5)   Sandy Redox (S6)   Dark Surface (S7) (LRR R, MLRA 149B)   dicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.   strictive Layer (if observed):   Type:   None   Depth (inches):   Hydric Soil Present?   Yes _< No	Thistop			Developed D		Intace (F)	()			
Sandy Gleyed Matrix (34)	Sandy Gleyed Matrix (34)	Thick D	ark Surface (A12)		Depleted D		инисс (г ) mc (ГО)	,		Iron-Mangan	nese Masses (F12) <b>(LRR K, L, R)</b>
Sandy Redux (S3)	Sandy Redox (S3)	Thick D. Sandy N	ark Surface (A12) Mucky Mineral (S1)		Depleted D Redox Dep	ressio	ons (F8)	,		Iron-Mangan Piedmont Flo	nese Masses (F12) <b>(LRR K, L, R)</b> bodplain Soils (F19) <b>(MLRA 149B)</b>
Stripped Matrix (S6)	Stripped Matrix (Sb)	_ Thick D _ Sandy N _ Sandy C	ark Surface (A12) Mucky Mineral (S1) Gleyed Matrix (S4)		Depleted D Redox Dep	ressic	ons (F8)	,		Iron-Mangan Piedmont Flo Mesic Spodio	nese Masses (F12) <b>(LRR K, L, R)</b> bodplain Soils (F19) <b>(MLRA 149B)</b> c (TA6) <b>(MLRA 144A, 145, 149B)</b>
Dark Surface (37) (LKK K, MLKK 1495)      Other (Explain in Remarks)         dicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.         strictive Layer (if observed):         Type:      None         Depth (inches):	Dark Surface (37) (LKK K, MLKK 1495)      Other (Explain in Remarks)         dicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.         strictive Layer (if observed):	_ Thick D _ Sandy M _ Sandy C _ Sandy F	ark Surface (A12) Mucky Mineral (S1) Gleyed Matrix (S4) Redox (S5)		Depleted D Redox Dep	ressic	ons (F8)	,		Iron-Mangan Piedmont Flo Mesic Spodic Red Parent N	nese Masses (F12) <b>(LRR K, L, R)</b> podplain Soils (F19) <b>(MLRA 149B)</b> c (TA6) <b>(MLRA 144A, 145, 149B)</b> Material (F21)
dicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. trictive Layer (if observed): Type:NoneHydric Soil Present? Yes ∠No Depth (inches):	dicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.  trictive Layer (if observed):  Type:NoneHydric Soil Present? Yes _✓_ No Depth (inches):	_ Thick D _ Sandy N _ Sandy C _ Sandy F _ Strippe	ark Surface (A12) Mucky Mineral (S1) Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) (L <b>PP P</b>	AI DA 1	Depleted D Redox Dep	ressic	ons (F8)	,		Iron-Mangan Piedmont Flo Mesic Spodic Red Parent N Very Shallow	nese Masses (F12) <b>(LRR K, L, R)</b> podplain Soils (F19) <b>(MLRA 149B)</b> c (TA6) <b>(MLRA 144A, 145, 149B)</b> Material (F21) v Dark Surface (TF12)
trictive Layer (if observed): Type:NoneHydric Soil Present? Yes _✓_ No Depth (inches):	trictive Layer (if observed): Type: None Hydric Soil Present? Yes _ ✓ No Depth (inches): narks:	_ Thick D _ Sandy M _ Sandy C _ Sandy F _ Stripped _ Dark Su	ark Surface (A12) Mucky Mineral (S1) Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) <b>(LRR R, N</b>	ЛLRA 1	Depleted D Redox Dep 49B)	ressic	ons (F8)	,		Iron-Mangan Piedmont Flo Mesic Spodic Red Parent N Very Shallow Other (Explai	nese Masses (F12) <b>(LRR K, L, R)</b> bodplain Soils (F19) <b>(MLRA 149B)</b> c (TA6) <b>(MLRA 144A, 145, 149B)</b> Material (F21) v Dark Surface (TF12) in in Remarks)
Type:None Hydric Soil Present? Yes ∠ No Depth (inches):	Type: None   Depth (inches):	Thick D Sandy M Sandy C Sandy F Sandy F Dark Su	ark Surface (A12) Mucky Mineral (S1) Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) <b>(LRR R, N</b> of hydrophytic veg	MLRA 1	Depleted D Redox Dep <b>49B)</b> 1 and wetland hys	drolog	gy must k	, pe present, u	nless disturbe	Iron-Mangan Piedmont Flo Mesic Spodic Red Parent N Very Shallow Other (Explai d or problematic.	nese Masses (F12) <b>(LRR K, L, R)</b> bodplain Soils (F19) <b>(MLRA 149B)</b> c (TA6) <b>(MLRA 144A, 145, 149B)</b> Material (F21) v Dark Surface (TF12) in in Remarks)
Depth (inches):	Depth (inches):	Thick D. Sandy M Sandy G Sandy F Stripped Dark Su dicators strictive	ark Surface (A12) Mucky Mineral (S1) Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) <b>(LRR R, N</b> of hydrophytic veg <b>Layer (if observed)</b>	MLRA 1 getation	Depleted D Redox Dep <b>49B)</b> 1 and wetland hy	ressic	gy must k	) De present, u	nless disturbe	Iron-Mangan Piedmont Flo Mesic Spodic Red Parent N Very Shallow Other (Explai d or problematic.	nese Masses (F12) <b>(LRR K, L, R)</b> bodplain Soils (F19) <b>(MLRA 149B)</b> c (TA6) <b>(MLRA 144A, 145, 149B)</b> Material (F21) r Dark Surface (TF12) in in Remarks)
	narks:	Thick D. Sandy M Sandy G Sandy F Strippe Dark Su dicators strictive	ark Surface (A12) Mucky Mineral (S1) Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) <b>(LRR R, N</b> of hydrophytic veg Layer (if observed) Type:	MLRA 1 getation	Depleted D Redox Dep 49B) h and wetland hys None	drolog	gy must k	pe present, u	nless disturbe Present?	Iron-Mangan Piedmont Flo Mesic Spodio Red Parent N Very Shallow Other (Explai d or problematic.	nese Masses (F12) <b>(LRR K, L, R)</b> podplain Soils (F19) <b>(MLRA 149B)</b> (TA6) <b>(MLRA 144A, 145, 149B)</b> Material (F21) Dark Surface (TF12) in in Remarks) YesNo
		Thick D. Sandy N Sandy C Sandy F Stripped Dark Su licators trictive	ark Surface (A12) Mucky Mineral (S1) Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) <b>(LRR R, N</b> of hydrophytic veg Layer (if observed) Type: Depth (inches):	MLRA 1 getation : 	Depleted D Redox Dep 49B) h and wetland hys None	drolog	gy must t	pe present, u	nless disturbe Present?	Iron-Mangan Piedmont Flo Mesic Spodio Red Parent N Very Shallow Other (Explai d or problematic.	hese Masses (F12) <b>(LRR K, L, R)</b> bodplain Soils (F19) <b>(MLRA 149B)</b> c (TA6) <b>(MLRA 144A, 145, 149B)</b> Material (F21) r Dark Surface (TF12) in in Remarks) Yes No
		Thick D Sandy N Sandy C Sandy F Stripper Dark Su licators trictive	ark Surface (A12) Mucky Mineral (S1) Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) <b>(LRR R, N</b> of hydrophytic veg Layer (if observed) Type: Depth (inches):	MLRA 1 getation :	Depleted D Redox Dep <b>49B)</b> <u>1 and wetland hy</u> <u>None</u>	drolo	gy must b	pe present, u Hydric Soil	nless disturbe Present?	Iron-Mangan Piedmont Flo Mesic Spodic Red Parent N Very Shallow Other (Explai d or problematic.	hese Masses (F12) (LRR K, L, R) bodplain Soils (F19) (MLRA 149B) c (TA6) (MLRA 144A, 145, 149B) Material (F21) P Dark Surface (TF12) in in Remarks) Yes No
		Thick D Sandy N Sandy C Sandy F Stripper Dark Su licators trictive	ark Surface (A12) Mucky Mineral (S1) Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) <b>(LRR R, N</b> of hydrophytic veg <b>Layer (if observed)</b> Type: Depth (inches):	MLRA 1 <u>getation</u> : 	Depleted D Redox Dep 49B) <u>n and wetland hy</u> <u>None</u>	drolo	gy must b	pe present, u Hydric Soil	nless disturbe Present?	Iron-Mangan Piedmont Flo Mesic Spodic Red Parent N Very Shallow Other (Explai d or problematic.	hese Masses (F12) (LRR K, L, R) bodplain Soils (F19) (MLRA 149B) c (TA6) (MLRA 144A, 145, 149B) Material (F21) v Dark Surface (TF12) in in Remarks) Yes No
		Thick D Sandy M Sandy C Sandy F Stripper Dark Su <u>dicators</u> trictive	ark Surface (A12) Mucky Mineral (S1) Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) <b>(LRR R, N</b> of hydrophytic veg Layer (if observed) Type: Depth (inches):	MLRA 1 getation :	Depleted D Redox Dep 49B) <u>n and wetland hy</u> <u>None</u>	drolo	gy must b	oe present, u Hydric Soil	nless disturbe Present?	Iron-Mangan Piedmont Flo Red Parent N Very Shallow Other (Explai d or problematic.	hese Masses (F12) (LRR K, L, R) bodplain Soils (F19) (MLRA 149B) c (TA6) (MLRA 144A, 145, 149B) Material (F21) P Dark Surface (TF12) in in Remarks) Yes No
		Thick D Sandy N Sandy C Sandy F Stripper Dark Su dicators strictive	ark Surface (A12) Mucky Mineral (S1) Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) <b>(LRR R, N</b> of hydrophytic veg <b>Layer (if observed)</b> Type: Depth (inches):	MLRA 1 getation :	Depleted D Redox Dep 49B) <u>n and wetland hy</u> <u>None</u>	drolo <sub>i</sub>	gy must b	pe present, u Hydric Soil	nless disturbe Present?	Iron-Mangan Piedmont Flo Mesic Spodic Red Parent N Very Shallow Other (Explai d or problematic.	hese Masses (F12) (LRR K, L, R) bodplain Soils (F19) (MLRA 149B) c (TA6) (MLRA 144A, 145, 149B) Material (F21) v Dark Surface (TF12) in in Remarks) Yes No
		Thick D Sandy N Sandy G Sandy F Strippe Dark Su dicators strictive	ark Surface (A12) Mucky Mineral (S1) Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) <b>(LRR R, N</b> of hydrophytic veg <b>Layer (if observed)</b> Type: Depth (inches):	MLRA 1 getation :	Depleted D Redox Dep 49B) <u>n and wetland hy</u> <u>None</u>	drolo <sub>2</sub>	gy must b	pe present, u Hydric Soil	nless disturbe Present?	Iron-Mangan Piedmont Flo Mesic Spodic Red Parent N Very Shallow Other (Explai d or problematic.	nese Masses (F12) (LRR K, L, R) podplain Soils (F19) (MLRA 149B) (TA6) (MLRA 144A, 145, 149B) Material (F21) Poark Surface (TF12) in in Remarks) Yes _✓_ No
		Thick D Sandy N Sandy G Sandy F Strippe Dark Su dicators strictive	ark Surface (A12) Mucky Mineral (S1) Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) <b>(LRR R, N</b> of hydrophytic veg <b>Layer (if observed)</b> Type: Depth (inches):	MLRA 1 3etation : 	Depleted D Redox Dep 49B) <u>n and wetland hy</u> <u>None</u>	drolo	gy must t	pe present, u Hydric Soil	nless disturbe Present?	Iron-Mangan Piedmont Flo Mesic Spodic Red Parent N Very Shallow Other (Explai d or problematic.	nese Masses (F12) (LRR K, L, R) bodplain Soils (F19) (MLRA 149B) c (TA6) (MLRA 144A, 145, 149B) Material (F21) v Dark Surface (TF12) in in Remarks) YesNo
		Thick D Sandy N Sandy C Sandy F Strippe Dark Su dicators trictive	ark Surface (A12) Mucky Mineral (S1) Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) <b>(LRR R, N</b> of hydrophytic veg <b>Layer (if observed)</b> Type: Depth (inches):	MLRA 1 3etation : 	Depleted D Redox Dep 49B) <u>n and wetland hy</u> <u>None</u>	drolo	gy must t	) be present, u Hydric Soil	nless disturbe Present?	Iron-Mangan Piedmont Flo Mesic Spodic Red Parent N Very Shallow Other (Explai d or problematic.	hese Masses (F12) (LRR K, L, R) bodplain Soils (F19) (MLRA 149B) c (TA6) (MLRA 144A, 145, 149B) Material (F21) r Dark Surface (TF12) in in Remarks) Yes No
		Thick D Sandy N Sandy C Sandy F Strippe Dark Su licators trictive	ark Surface (A12) Mucky Mineral (S1) Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) <b>(LRR R, N</b> <u>of hydrophytic veg</u> <b>Layer (if observed)</b> Type: Depth (inches):	MLRA 1 getation :	Depleted D Redox Dep 49B) <u>n and wetland hy</u> <u>None</u>	drolo	gy must t	, be present, u Hydric Soil	nless disturbe Present?	Iron-Mangan Piedmont Flo Mesic Spodic Red Parent N Very Shallow Other (Explai d or problematic.	hese Masses (F12) (LRR K, L, R) bodplain Soils (F19) (MLRA 149B) c (TA6) (MLRA 144A, 145, 149B) Material (F21) r Dark Surface (TF12) in in Remarks) Yes No
		Thick D Sandy N Sandy C Sandy F Strippe Dark Su dicators trictive	ark Surface (A12) Mucky Mineral (S1) Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) <b>(LRR R, N</b> <u>of hydrophytic veg</u> <b>Layer (if observed)</b> Type: Depth (inches):	MLRA 1 getation :	Depleted D Redox Dep 49B) <u>n and wetland hy</u> <u>None</u>	drolo <sub>i</sub>	gy must t	e present, u	nless disturbe Present?	Iron-Mangan Piedmont Flo Red Parent N Very Shallow Other (Explai d or problematic.	hese Masses (F12) (LRR K, L, R) bodplain Soils (F19) (MLRA 149B) c (TA6) (MLRA 144A, 145, 149B) Material (F21) r Dark Surface (TF12) in in Remarks) Yes No
		Thick D Sandy N Sandy C Sandy F Strippe Dark Su dicators strictive	ark Surface (A12) Mucky Mineral (S1) Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) <b>(LRR R, N</b> <u>of hydrophytic veg</u> <b>Layer (if observed)</b> Type: Depth (inches):	MLRA 1 3etation : 	Depleted D Redox Dep 49B) n and wetland hy None	drolo;	gy must t	e present, u Hydric Soil	nless disturbe Present?	Iron-Mangan Piedmont Flo Red Parent N Very Shallow Other (Explai d or problematic.	hese Masses (F12) (LRR K, L, R) bodplain Soils (F19) (MLRA 149B) c (TA6) (MLRA 144A, 145, 149B) Material (F21) r Dark Surface (TF12) in in Remarks) Yes/_ No
		Thick D. Sandy M Sandy C Sandy F Strippe Dark Su dicators strictive	ark Surface (A12) Mucky Mineral (S1) Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) <b>(LRR R, N</b> <u>of hydrophytic veg</u> <b>Layer (if observed)</b> Type: Depth (inches):	MLRA 1 3etation : 	Depleted D Redox Dep 49B) n and wetland hy None	drolo;	gy must t	e present, u Hydric Soil	nless disturbe Present?	Iron-Mangan Piedmont Flo Red Parent N Very Shallow Other (Explai d or problematic.	hese Masses (F12) (LRR K, L, R) bodplain Soils (F19) (MLRA 149B) c (TA6) (MLRA 144A, 145, 149B) Material (F21) r Dark Surface (TF12) in in Remarks) Yes/_ No
		Thick D. Sandy M. Sandy C. Sandy F. Strippe Dark Su dicators strictive	ark Surface (A12) Mucky Mineral (S1) Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) <b>(LRR R, N</b> <u>of hydrophytic veg</u> <b>Layer (if observed)</b> Type: Depth (inches):	MLRA 1 3etation : 	Depleted D Redox Dep 49B) n and wetland hy None	drolo;	gy must b	e present, u	nless disturbe Present?	Iron-Mangan Piedmont Flo Red Parent N Very Shallow Other (Explai d or problematic.	hese Masses (F12) (LRR K, L, R) bodplain Soils (F19) (MLRA 149B) c (TA6) (MLRA 144A, 145, 149B) Material (F21) r Dark Surface (TF12) in in Remarks) Yes _ / _ No
		Thick D. Sandy M. Sandy C. Sandy F. Strippe Dark Su dicators strictive	ark Surface (A12) Mucky Mineral (S1) Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) <b>(LRR R, N</b> of hydrophytic veg Layer (if observed) Type: Depth (inches):	MLRA 1 getation :	Depleted D Redox Dep 49B) n and wetland hy None	drolo;	gy must b	, be present, u Hydric Soil	nless disturbe Present?	Iron-Mangan Piedmont Flo Red Parent N Very Shallow Other (Explai d or problematic.	hese Masses (F12) (LRR K, L, R) bodplain Soils (F19) (MLRA 149B) c (TA6) (MLRA 144A, 145, 149B) Material (F21) r Dark Surface (TF12) in in Remarks) Yes _ / No
		Thick D. Sandy M. Sandy G. Sandy F. Strippe Dark Su dicators strictive	ark Surface (A12) Mucky Mineral (S1) Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) <b>(LRR R, N</b> of hydrophytic veg Layer (if observed) Type: Depth (inches):	MLRA 1 3etation :	Depleted D Redox Dep 49B) n and wetland hy None	drolo;	gy must b	e present, u Hydric Soil	nless disturbe Present?	Iron-Mangan Piedmont Flo Red Parent N Very Shallow Other (Explai d or problematic.	hese Masses (F12) (LRR K, L, R) bodplain Soils (F19) (MLRA 149B) c (TA6) (MLRA 144A, 145, 149B) Material (F21) r Dark Surface (TF12) in in Remarks) Yes _ / _ No
		Thick D Sandy M Sandy G Sandy F Strippe Dark Su <u>dicators</u> trictive	ark Surface (A12) Mucky Mineral (S1) Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) <b>(LRR R, N</b> <u>of hydrophytic vea</u> <b>Layer (if observed)</b> Type: Depth (inches):	MLRA 1 getation :	Depleted D Redox Dep 49B) <u>n and wetland hy</u> <u>None</u>	droloį	gy must b	pe present, u	nless disturbe Present?	Iron-Mangan Piedmont Flo Red Parent N Very Shallow Other (Explai d or problematic.	hese Masses (F12) (LRR K, L, R) bodplain Soils (F19) (MLRA 149B) c (TA6) (MLRA 144A, 145, 149B) Material (F21) r Dark Surface (TF12) in in Remarks) Yes _ / _ No

Vegetation Photos



Soil Photos

Photo of Sample Plot North



Photo of Sample Plot East



Photo of Sample Plot South



Photo of Sample Plot West



# WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Riverside So	olar		City/County: Cha	aumont, Jeffe	rson		Sampling Date:	2020-June-05
Applicant/Owner: Gero	onimo				State: NY		Sampling Point: V	V-NSD-13_UPL-1
Investigator(s): Nick De	John, Other,	Ben Popham		Sect	ion, Township, Ra	nge:		
Landform (hillslope, terra	ce, etc.):	Hillslope		Local relief	(concave, convex,	none):	Convex	Slope (%): 2 to 5
Subregion (LRR or MLRA):	LRR R			Lat:	44.0645210585	Long:	-76.0892846157	Datum: WGS84
Soil Map Unit Name:G	ivGuffin clay	/					NWI classifica	ation:
Are climatic/hydrologic co	onditions on t	he site typical	for this time of ye	ear?	Yes 🟒 No 🔄	(If no	o, explain in Remar	ks.)
Are Vegetation, So	oil, o	r Hydrology	significantly d	isturbed?	Are "Normal (	Tircums	tances" present?	Yes 🟒 No
Are Vegetation, So	oil, o	r Hydrology	naturally prob	plematic?	(If needed, ex	plain an	y answers in Rema	irks.)

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

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

#### HYDROLOGY

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

VEGETATION -- Use scientific names of plants.

Sampling Point: W-NSD-13\_UPL-1

Tree Stratum (Plot size: <u>30 ft</u> )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test works Number of Dominant S	<b>heet:</b> Species That	4	
1.				Are OBL, FACW, or FAC	:	I	(A)
2				Total Number of Domir	hant Species	2	(D)
				Across All Strata:		Ζ	(B)
				Percent of Dominant S	pecies That	50	(A/R)
T				Are OBL, FACW, or FAC	:		(7,7,6)
6		······		<ul> <li>Prevalence Index works</li> </ul>	sheet:		
7				- <u>Total % Cover</u>	of:	<u>Multiply</u>	<u>By:</u>
7		- Tatal Ca		– OBL species _	0	x 1 =	0
Cauling (Church Churchange (Distributed AF ft)	0		er	FACW species	35	x 2 =	70
Sapling/Shrub Stratum (Plot size:15 ft)				FAC species	12	x 3 =	36
1				– FACU species	55	x 4 =	220
2.				– UPL species	0	x 5 =	0
3				– Column Totals	102	(A) -	326 (B)
4				Prevalence Ir	dex = B/A =	3.2	020 (8)
5							
6				1 Bapid Test for h	Judrophytic \	logotation	
7					tic > E0%	regetation	
	0	= Total Cov	er	2 - Dominance re	St IS > 50%		
<u>Herb Stratum</u> (Plot size: <u>5 ft</u> )				3 - Prevalence ind	lex is $\leq 3.0^{\circ}$	(Duran dala	
1. Phalaris arundinacea	35	Yes	FACW	4 - Morphological	Adaptations	' (Provide	supporting
2. Lotus tenuis	25	Yes	FACU		a separate si	tation1 (F)	(nlain)
3. Galium mollugo	20	No	FACU	Problematic Hydr	il and wotlan		(pidili)
4. Ranunculus acris	12	No	FAC	nresent unless disturb		a nyarolo matic	gy must be
5. Taraxacum officinale	10	No	FACU		n Strata:	matic	
6				_ Deminions of vegetation	in (7.6 cm) or	r moro in	diameter at
7				breast beight (DBH) re	gardless of h	aight	ulameter at
·				- Sapling/shrub Wood	ulante loce t	eigiit. han 2 in T	
8				greater than or equal t	o 3 28 ft (1 m	) tall	
9				Herh - All herhaceous	(non-woody)	nlants re	ardless of
10				size, and woody plants	less than 3.2	8 ft tall.	Sal diess of
11				- Woody vines - All wood	dy vines great	ter than 3	28 ft in
12				height.	ay vines great		2010111
	102	= Total Cov	er		n Drocont2		
<u>Woody Vine Stratum</u> (Plot size: <u>30 ft</u> )				Hydrophylic vegetalio	n Present?	res r	10 _7_
1				_			
2				_			
3.							
4.							
	0	= Total Cov	er	-			
				<u> </u>			
Remarks: (include photo numbers here of on a se	eparate sneet.)						

SOIL

## Sampling Point: W-NSD-13\_UPL-1

nches) Color (moist)	% Color (mo	ist) % Type¹	Loc <sup>2</sup> Textur	re Remarks
0 - 14 10YR 4/2	100		Clay Lo	am
			<u> </u>	
·				
·				
ype: C = Concentration, D =	Depletion, RM = Red	uced Matrix, MS =	Masked Sand Grains. <sup>2</sup>	Location: PL = Pore Lining, M = Matrix.
dric Soil Indicators:				Indicators for Problematic Hydric Soils <sup>3</sup> :
_ Histosol (A1)	Polyvalu	e Below Surface (	S8) (LRR R, MLRA 149B)	2 cm Muck (A10) (LRR K, L, MLRA 149B)
_ Histic Epipedon (A2) Black Histic (A3)	Thin Dai	K Surface (S9) <b>(LR</b> Auchy Mineral (E1)	K K, MLKA 149B)	Coast Prairie Redox (A16) <b>(LRR K, L, R)</b>
– Black Histic (AS) Hydrogen Sulfide (A4)	Loamy (	ileved Matrix (F2)		5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
Stratified Lavers (A5)	Deplete	d Matrix (F3)		Dark Surface (S7) (LRR K, L)
_ Depleted Below Dark Surf	ace (A11) Redox D	ark Surface (F6)		Polyvalue Below Surface (S8) (LRR K, L)
_ Thick Dark Surface (A12)	Deplete	d Dark Surface (F7	7)	I nin Dark Surface (S9) (LRR K, L)
_ Sandy Mucky Mineral (S1)	Redox D	epressions (F8)		ITOTI-Mangaliese Masses (FT2) (LRR N, L, R)
_ Sandy Gleyed Matrix (S4)				Mesic Spodic (TA6) (MI RA 144A 145 149B)
_ Sandy Redox (S5)				Red Parent Material (F21)
_ Stripped Matrix (S6)				Very Shallow Dark Surface (TF12)
_ Dark Surface (S7) <b>(LRR R, N</b>	/ILRA 149B)			Other (Explain in Remarks)
ndicators of hydrophytic veg	etation and wetland	hydrology must b	be present, unless disturb	ped or problematic.
strictive Layer (if observed)		,,		
Туре:	Hard clay		Hydric Soil Present?	Yes No 🟒
Depth (inches):	14			

Vegetation Photos



Soil Photos

Photo of Sample Plot North



Photo of Sample Plot East Photo of Sample Plot South



Photo of Sample Plot West



Project Number:       I         Map Sheet No.:       S         GPS Point No(s):       S         Associated Data Sheet       S         No(s):       S         Stream Name:       BF-SI         Perceptible Flow:       Yes 🛛 No 🗌         Direction of Flow:       NW         Perennial       Intermittent 🖾 Ephemeral         Probed Stream Depth       Channel Substream	Date:       6/3/2020         State/County:       NY/Jefferson         Weather:
Map Sheet No.:       S         GPS Point No(s):       N         Associated Data Sheet       S         No(s):       S         Stream I       S         Stream Name:       BF-SI         Perceptible Flow:       Yes 🖾 No 🗌         Direction of Flow:       NW         Perennial       Intermittent 🖾 Ephemeral         Probed Stream Depth       Channel Subst	State/County:       NY/Jefferson         Weather:
GPS Point No(s):       N         Associated Data Sheet       S         No(s):       -         Stream I       Stream I         Stream Name:       BF-SI         Perceptible Flow:       Yes 🛛 No 🗌         Direction of Flow:       NW         Perennial       Intermittent 🖾 Ephemeral         Probed Stream Depth       Channel Subst	Weather:
Associated Data Sheet     S       No(s):     -       Stream I     S       Stream Name:     BF-SI       Perceptible Flow:     Yes 🖾 No 🗌       Direction of Flow:     NW       Perennial     Intermittent 🖾 Ephemeral       Probed Stream Depth     Channel Subst	Stream Location (address, nearest road, structure etc.)         Weaver Road, Chaumont NY         Information         Stream Width:       3         ft.         Water Width       3         ft.         Bank to Bank       3         ft.         Bankfull Width:       3         ft.
No(s):	Weaver Road, Chaumont NY         Information         Stream Width:       3         ft.         Water Width       3         ft.         Bank to Bank       3         ft.         Bankfull Width:       3
Stream Name:       BF-SI         Stream Name:       BF-SI         Perceptible Flow:       Yes \overline No         Direction of Flow:       NW         Perennial       Intermittent         Probed Stream Depth       Channel Substream	Information         Stream Width:       3         ft.         Water Width       3         ft.         Bank to Bank       3         Stream ft.         Bank full Width:       3
Stream Name: BF-SI       Stream Name: BF-SI         Stream Name: BF-SI       W         Perceptible Flow: Yes No       H         Direction of Flow: NW       H         Perennial       Intermittent         Probed Stream Depth       Channel Substream	Information         Stream Width:       3       ft.         Water Width       3       ft.         Bank to Bank       3       ft.         Bank full Width:       3       ft.
Stream Name:       BF-SI       Stream Name:       Stream Stream Name:       Stream	Stream Width:       3       ft.         Water Width       3       ft.         Bank to Bank       3       ft.         Bankfull Width:       3       ft.
Stream Name:       BF-SI       W         Perceptible Flow:       Yes \(\Sigma\) No \(\Sigma\)       B         Direction of Flow:       NW       B         Perennial \(\Sigma\) Intermittent \(\Sigma\) Ephemeral \(\Sigma\)       B         Probed Stream Depth       Channel Substream	Water Width3ft.Bank to Bank3ft.Bankfull Width:3ft.
Perceptible Flow: Yes No       H         Direction of Flow: NW       H         Perennial       Intermittent         Probed Stream Depth       Channel Substream	Bank to Bank   3   ft.     Bankfull Width:   3   ft.
Direction of Flow:     NW       Perennial     Intermittent       Probed Stream Depth     Channel Substream	Bankfull Width: <u>3</u> ft.
Perennial   Intermittent   Ephemeral     Probed Stream Depth   Channel Substitution	
Probed Stream Depth   Channel Substitution	
Probed Stream Depth Channel Subst	
	trate Observed Water Quality
$\square$ 0.6" $\square$ Shala	
$\square 7 12"$	Cital
$\Box 12 24'' \qquad \Box \text{ Gebble/Crr}$	
$\Box 15-24 \qquad \Box CODDE/OR$	
$\square 23-30 \qquad \square Sallu \\ \square > 26'' \qquad $	
$\square > 30$ $\square$ Sill/Clay	
Aquatic Habitat Wildlife Obser	rved (Species) Observed Use
Sand Bar Waterfowl	
Sand/Gravel Beach Bar	
Mud Bar I Turtles	Swimming
$\boxtimes$ Overhanging $\boxtimes$ Frogs	Fishing
Invertebrat	es Drainage
Cobble Riffles Salamande	rs Boating
Deep Ponds/Holes Other:	Other:
Aquatic Vegetation	
Other	
Loft Donk* Height and Clans	Dight Donk* Height and Clane
Lett Dallk <sup>*</sup> fleight and Slope F	Mgnt Dank" reight and Siope
$\square 0.3^{\circ} \square 0.20\% (0.11^{\circ})$	$(0-3)^{\circ}$ $(0-20\% (0-11^{\circ}))^{\circ}$
$\square 3-6'$ $\square 21-50\% (011')$	$\boxed{3.6'}$ $\boxed{21.50\%(12.27^{\circ})}$
$\Box 6_{-+} \boxtimes 51_{-100\%} (28_{-45\%})$	$16+100\%(28-45^{\circ})$
* Direction wher	n facing downstream
Bank Substrate E	Erosion Potential Meander Gradient
Shalo Sand	
$\square Dedreels \square Sand \square Dedreels \square Site (Class)$	□ LOW □ LOW □ Uentie
$\square Gabble \square	
Bank Substrate     Bank Substrate     Shale     Sand     Bedrock     Silt/Clay	In facing downstream         Erosion Potential       Meander       Gradient         Image: Strate       Image: Strate       Image: Strate         Image: Strate       Image: Strate       Image: Strate

# **Stream Inventory Data Form**

Data Sheet No.
Stream Info. Continued
Adjacent Community Type: Shallow emergent marsh, Upland shrubland
Dominant Vegetative Species:
Trees: Elm, common buckthorn
Shrubs: Elm, common buckthorn
Herbaceous: Fowl mannagrass
Estimated % of canopy closure over stream channel: $\Box = 0.25\%$
$\Box 0-25\%$ $\Box 20-50\%$ $\bigtriangleup 51-75\%$ $\Box 70-100\%$
Presence of unreatened/endangered species (itsn, reputes, or amphibians)? $\Box$ Unknown $\Box$ No. $\Box$ Voc (identify)
Regulatory Status
State Protected Corps Jurisdictional
Notes:
Stream BF-S1 starts at a bedrock outcropping and drains into Wetland BF-W5.
Sketch:

Project Name: Riverside Sola	ar Observer Name:	BF/BK						
Project Number:	Date: 6/4/2	Date: 6/4/2020						
Map Sheet No.:	State/County:	State/County: NY/Jefferson						
GPS Point No(s):	Weather:	Weather:						
Associated Data Sheet	Stream Location	Stream Logation (address, nearest road, structure ata)						
No(a)	Casa Read	Stream Location (address, nearest road, structure etc.)						
NO(S):		1, Chaumont NY						
	Stream Information							
	Stream Width:	<u>3-6</u> ft.						
Stream Name: BF-S2	Water Width	Water Width 3 ft.						
Perceptible Flow: Yes $\boxtimes$ No	Bank to Bank	Bank to Bank 3-6 ft.						
Direction of Flow: West	Bankfull Width	3-6 ft						
Parannial Intermittant Inter		<u> </u>						
Probed Stream Depth	Channel Substrate	Observed Water Quality						
0-6"	Shale	🔀 Clear						
7-12"	Bedrock	Slightly Turbid						
13-24"	Cobble/Gravel	Turbid						
$\square 25 36"$	$\Box 15^{-}24$							
$\Box 25.50$	$\square$ Silt/Class							
	Organic Organic							
Aquatic HabitatWildlife Observed (Species)Observed Use		Observed Use						
C Sand Dan	<b>W</b> atarfami							
Sand/Gravel Beach Bar	Fish	Irrigation						
☐ Mud Bar	Turtles Swimming							
Overhanging	Frogs	Fishing						
Trees/Shrubs	Invertebrates	🖂 Drainage						
Cobble Riffles	Salamanders	Boating						
Deep Ponds/Holes	Deep Ponds/Holes Other:							
Deep Polids/Holes     Outer:     Outer:								
Aquatic vegetation								
☐ Other								
Left Bank* Height and Slope	<b>Right Bank* H</b> e	eight and Slope						
$\square$ 0.3' $\square$ 0.20% (0.110)	$\bigtriangledown$ 0.2'	$\Box$ 0.20% (0.11°)						
		$\square 0-2070 (0-11)$						
$ \begin{bmatrix} 3-6 \\ 21-30\% (12-27^{\circ}) \\ 12-27^{\circ} \end{bmatrix} = \begin{bmatrix} 3-6 \\ 21-30\% (12-27^{\circ}) \\ 12-27^{\circ} \end{bmatrix} $								
□ 6-+ ⊠ 51-100% (28-45°)	<u> </u>	100% (28-45°)						
	* Direction when facing downst	ream						
Bank Substrate	Erosion Potenti	al Meander Gradient						
	_							
Shale Sand		Low Gentle						
Bedrock Silt/Clay	Moderate Moderate Moderate							
	🖂 Moderate	Moderate Moderate						
Cobble  Organic	⊠ Moderate □ High	High Steep						

# **Stream Inventory Data Form**

Data Sheet No.				
Stream Info. Continued				
Adjacent Community Type: Shallow emergent marsh, Upland shrubland				
Dominant Vegetative Species:				
Trees: Elm, common buckthorn, hawthorne, black willow				
Shrubs: Elm, common buckthorn, gray dogwood, black willow				
Herbaceous: Jewelweed, bluejoint grass, tall buttercup, cattails, sensitive fern, thimbleweed				
Estimated % of canopy closure over stream channel:				
$\Box$ 0-25% $\boxtimes$ 26-50% $\Box$ 51-75% $\Box$ 76-100%				
Presence of threatened/endangered species (fish, reptiles, or amphibians)?				
$\Box$ Unknown $\boxtimes$ No $\Box$ Yes (identify)				
Regulatory Status				
State Protected Corps Jurisdictional				
Notes:				
Stream BF-S2 starts as a narrow channel with shrub covered banks but then gets wider and meanders as it				
progresses to the west. Exposed bedrock is visible in several areas along the western portion of the				
stream. Stream BF-S2 also flows through and connects Wetlands BF-W9 and BF-W10.				
Sketch:				

Suc		ry Dutu I of m					
Project Name: Riverside Sola	ar (	Observer Name: 1	BF/RS				
Project Number:		Date: 9/23/2020					
Man Sheet No ·	Sheet No · State/County· NY/Lefferson						
GPS Point No(s):	Doint No(a):						
	-  )	vv caulel. <u>Cledr, /</u>	o degrees				
Associated Data Sheet		Stream Location (addre	ess, nearest road,	structure etc.)			
No(s):	_	Guffins Bay Esta	te Road				
Stream Information							
	Stream Width: 3 ft						
Stroom Name: BES 3	Weter Width 0 ft						
Suball Name. $DI-S-S$	$\frac{1}{2} = \frac{1}{2} = \frac{1}$						
Perceptible Flow: Yes $\square$ No $\boxtimes$		Bank to Bank <u>4</u> ft.					
Direction of Flow: SW	_   H	Bankfull Width: <u>4</u> ft.					
Perennial Intermittent Eph	emeral						
	_						
Probed Stream Depth	Channel Subs	strate	Observed W	ater Quality			
$\square \square \square \square$							
	∐ Snale						
7-12"	$\boxtimes$ Bedrock		Slightly Slightly	Furbid			
13-24"	Cobble/Gra	avel	Turbid				
25-36"	5-36"						
$\square > 36$	$\Box$ Silt/Clay						
Aquatic Habitat	Wildlife Obser	rvad (Spacias)	Observed U	50			
Aquatic Habitat	what the Observer	i veu (species)	Observed O	50			
Sand Par	Woterfow!	l	Drinking				
		L					
Sand/Gravel Beach Bar	Fish		Irrigation				
└ Mud Bar	Turtles		Swimming				
Overhanging	Overhanging Frogs		<b>Fishing</b>				
Trees/Shrubs	Invertebrat	tes	Drainage	•			
Cobble Biffles			Dramage Desting				
Deep Ponds/Holes Deep Ponds/Holes Other:							
Aquatic Vegetation							
Other							
Left Bank* Height and Slope	I	Right Bank* Height a	nd Slope				
$\boxtimes$ 0-3' $\square$ 0-20% (0-11°)		⊠ 0-3' □ 0-2	20% (0-11°)				
$\square 3-6' \square 21-50\% (12-27^{\circ}) \square 3-6' \square 21-50\% (12-27^{\circ})$							
$ \square 6 \square \square 21 00/0 (12 27) $							
$\square 0^{-+} \boxtimes 31^{-1}00\% (20^{-+}3) \qquad \square 0^{-+} \boxtimes 31^{-1}00\% (20^{-+}3) $							
* Direction when facing downstream							
Poply Substrate		Emosion Datasti-1	Moondan	Cuadiant			
bank Substrate	1	Erosion Potential	wieander	Gradient			
	٢			$\nabla C_{ant}$			
Sand	4						
Bedrock 🖾 Silt/Clay	L	∐ Moderate ∐ Moderate ∐Moderate					
Cobble Organic	[	High	🔀 High	Steep			
	-	-					

# **Stream Inventory Data Form**

Stream Info. Continued
Adjacent Community Type: <u>Successional shubland, row crops, shallow emergent marsh</u>
Dominant Vegetative Species:
Trees:
Shrubs: Gray dogwood, common buckthorn
Herbaceous: Soft stem bulrush, soft rush, panicle white aster, Joe-Pve weed, American burr-reed
Estimated % of canopy closure over stream channel.
125 0-25% $26-50%$ $51-75%$ $76-100%$
Presence of threatened/endangered species (fish rentiles or amphibians)?
$\square$ Unknown $\square$ No $\square$ Ves (identify)
Dogulatory Status
State Protected Corps Invisdictional
Notos
noies:
Stream BF-S3 is a mapped NWI R5UBH intermittent stream flowing south west and connecting to Wetland BF-W-11.
Sketch:


Project Name						Date						
Project Number					Evaluat	ed By						
Address					-							
USGS Quadrang												
Stream Delineati	on ID		Stream N	lame								
	Stream Loca	ation										
(e.g. ne	arest road, struc	ture)										
Presumed Regulatory	<u>Authority</u>											
U.S. Army Corps	Ratic State	onale:										
<u>Stream Class</u>	<u>(</u>	bserved Hy	drology			Wie	dth (ft.)	) across Existing	Water			
🗆 Perennial	Flow Dr	y 🗆 Lov	w □ Mo	oderate	Flood	l Plain 🗆 Yes,	Measu	ure Bankfull Widt	:h (ft.)			
□ Intermittent	Stage 🗆 Hig	gh 🗆 Flo	od		Pre	esent? 🗆 No, Me	asure T	Гор of Bank Widt	:h (ft.)			
Ephemeral	Flow Direction				-	Width (ft.) acros	s Ordin	ary High Water I	Mark*			
Undetermined	Average Depth				-	*Ordinary Hic	gh Wate	er Mark Indicato	<u>rs</u>			
<u>Streambed Su</u>	<u>ubstrate</u>	<u>Chanı</u>	nel Gradient	<u>.</u>	🗆 Natura	al Line Impressed o	n Bank	□ Scour	🗆 Wrack			
□ Shale □ S	and	□ <2% (	<1°) Gentle		□ Mattee	d, bent, or Absent	Vegeta	tion 🗆 Water	Staining			
□ Bedrock □ C	Organic	□ 2 - 4%	б (1 - 2°) Мо	derate	🗆 Soil Ch	aracter Change		🗆 Shelvir	ng			
□ Boulders □ C	obble/Gravel	□ 4 - 10	% (2 - 6°) St	eep	□ Terres	trial Vegetation De	estroyed	d □ Bed &	Banks			
□ Silt □ C	lay	□ >10%	(>6°) Very S	Steep	🗆 Disturi	bed/Washed-away	' Leaf Li	itter 🛛 Litter &	& Debris			
□ Other					□ Plant Community Change □ Sediment Sorting							
	<u>Observed</u>	Use			🗆 Multip	le Observed Flow	Events	🗆 Deposi	tion			
□ Boating □ Sh	ellfishing 🛛 Sw	rimming	□ Irrigatior	ו		<u>v</u>	Vater O	Quality				
□ Fishing □ Dra	ainage 🛛 Dr	inking	🗆 Aquacult	ure	🗆 Clear	🗆 Turbid	🗆 Sligh	htly Turbid	□ Very Turbid			
Other					Comments							
Ba	nk Slope		Left*	Right*	<u>Bank</u>	< Height (ft.)		Bank Erosion	<u>Potential</u>			
0 - 8% (0 - 5°)	Nearly Level - Ge	ntly Sloping			_	Left*		Left*	Right*			
8 - 15% (5 - 9°)	Moderately Slopi	ng				Right*		Low				
15 - 25% (9 - 14°)	Steeply Sloping						Mode	erate				
25 - 35% (14 - 20°)	Steep				* Directi	ion when facing		High				
>35% (>20°)	Very Steep				downstream							
Banl	<u> Substrate</u>			<u>A</u>	Aquatic Habitat Estimated Canop							
Shale     Gravel	□ Silt/Clay	🗆 Cobble	🗆 Aqua	tic Vegetati	getation 🗆 Mud Bar 🗍 0 - 10%			□ 0 - 10%	□ 50 - 60%			
🗆 Bedrock 🛛 Sand	🗆 Riprap	□ Organic	🗆 Overł	nanging Veg	etation	□ Sand Bar		□ 10 - 20%	□ 60 - 70%			
Other			🗆 Unde	rcut Banks		🗆 Riffle - Pool		□ 20 - 30%	□ 70 - 80%			
Comments			🗆 Grave	el Bar		Plunge Pools		□30 - 40%	□ 80 - 90%			
			🗆 Other	·		□90 - 100%						



Stream	Deline	eation	ID

Adjacent	Commun	ity Type																		
Percen	<u>t Cover</u>		Domi	nant S	specie	<u>s</u>														
Trees																				
Shrubs																				
Herbaceous																				
Woody Vines																				
Bare Soil/Rock			Туре																	
Impervious			Туре																	
								<u>Obse</u>	rved F	auna										
	aterfowl		🗆 Fis	h		🗆 Sal	aman	ders		🗆 Mi	nk			🗆 Ot	her					
🗆 Sn	akes		□Fro	gs		□Ве	aver			□ Ot	ter									
🗆 Tu	rtles		🗆 То	ads		Π Μι	uskrat			🗆 Inv	rteb	rates								
					Prese	nce of	Rare,	Threa	tened	, or Er	ndang	ered S	pecies	<u>.</u>						
□ No □ Yes Species & Evidence																				
Undetermined																				
Notes (include weather, site access issues, culverts, etc.)																				
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Address					-							
USGS Quadrang												
Stream Delineati	on ID		Stream N	lame								
	Stream Loca	ation										
(e.g. ne	arest road, struc	ture)										
Presumed Regulatory	<u>Authority</u>											
U.S. Army Corps	Ratic State	onale:										
<u>Stream Class</u>	<u>(</u>	bserved Hy	drology			Wie	dth (ft.)	) across Existing	Water			
🗆 Perennial	Flow Dr	y 🗆 Lov	w □ Mo	oderate	Flood	l Plain 🗆 Yes,	Measu	ure Bankfull Widt	:h (ft.)			
□ Intermittent	Stage 🗆 Hig	gh 🗆 Flo	od		Pre	esent? 🗆 No, Me	asure T	Гор of Bank Widt	:h (ft.)			
Ephemeral	Flow Direction				-	Width (ft.) acros	s Ordin	ary High Water I	Mark*			
Undetermined	Average Depth				-	*Ordinary Hic	gh Wate	er Mark Indicato	<u>rs</u>			
<u>Streambed Su</u>	<u>ubstrate</u>	<u>Chanı</u>	nel Gradient	<u>.</u>	🗆 Natura	al Line Impressed o	n Bank	□ Scour	🗆 Wrack			
□ Shale □ S	and	□ <2% (	<1°) Gentle		□ Mattee	d, bent, or Absent	Vegeta	tion 🗆 Water	Staining			
□ Bedrock □ C	Organic	□ 2 - 4%	б (1 - 2°) Мо	derate	🗆 Soil Ch	aracter Change		🗆 Shelvir	ng			
□ Boulders □ C	obble/Gravel	□ 4 - 10	% (2 - 6°) St	eep	□ Terres	trial Vegetation De	estroyed	d □ Bed &	Banks			
□ Silt □ C	lay	□ >10%	(>6°) Very S	Steep	🗆 Disturi	bed/Washed-away	' Leaf Li	itter 🛛 Litter &	& Debris			
□ Other					□ Plant Community Change □ Sediment Sorting							
	<u>Observed</u>	Use			🗆 Multip	le Observed Flow	Events	🗆 Deposi	tion			
□ Boating □ Sh	ellfishing 🛛 Sw	rimming	□ Irrigatior	ו		<u>v</u>	Vater O	Quality				
□ Fishing □ Dra	ainage 🛛 Dr	inking	🗆 Aquacult	ure	🗆 Clear	🗆 Turbid	🗆 Sligh	htly Turbid	□ Very Turbid			
Other					Comments							
Ba	nk Slope		Left*	Right*	<u>Bank</u>	< Height (ft.)		Bank Erosion	<u>Potential</u>			
0 - 8% (0 - 5°)	Nearly Level - Ge	ntly Sloping			-	Left*		Left*	Right*			
8 - 15% (5 - 9°)	Moderately Slopi	ng				Right*		Low				
15 - 25% (9 - 14°)	Steeply Sloping						Mode	erate				
25 - 35% (14 - 20°)	Steep				* Directi	ion when facing		High				
>35% (>20°)	Very Steep				downstream							
Banl	<u> Substrate</u>			<u>A</u>	Aquatic Habitat Estimated Canop							
Shale     Gravel	□ Silt/Clay	🗆 Cobble	🗆 Aqua	tic Vegetati	getation 🗆 Mud Bar 🗍 0 - 10%			□ 0 - 10%	□ 50 - 60%			
🗆 Bedrock 🛛 Sand	🗆 Riprap	□ Organic	🗆 Overł	nanging Veg	etation	□ Sand Bar		□ 10 - 20%	□ 60 - 70%			
Other			🗆 Unde	rcut Banks		🗆 Riffle - Pool		□ 20 - 30%	□ 70 - 80%			
Comments			🗆 Grave	el Bar		Plunge Pools		□30 - 40%	□ 80 - 90%			
			🗆 Other	·		□90 - 100%						



Stream	Deline	eation	ID

Adjacent	Commun	ity Type																		
Percen	<u>t Cover</u>		Domi	nant S	specie	<u>s</u>														
Trees																				
Shrubs																				
Herbaceous																				
Woody Vines																				
Bare Soil/Rock			Туре																	
Impervious			Туре																	
								<u>Obse</u>	rved F	auna										
	aterfowl		🗆 Fis	h		🗆 Sal	aman	ders		🗆 Mi	nk			🗆 Ot	her					
🗆 Sn	akes		□Fro	gs		□Ве	aver			□ Ot	ter									
🗆 Tu	rtles		🗆 То	ads		Π Μι	uskrat			🗆 Inv	rteb	rates								
					Prese	nce of	Rare,	Threa	tened	, or Er	ndang	ered S	pecies	<u>.</u>						
□ No □ Yes Species & Evidence																				
Undetermined																				
Notes (include weather, site access issues, culverts, etc.)																				
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Stream Delineati	on ID		Stream N	lame								
	Stream Loca	ation										
(e.g. ne	arest road, struc	ture)										
Presumed Regulatory	<u>Authority</u>											
U.S. Army Corps	Ratic State	onale:										
<u>Stream Class</u>	<u>(</u>	bserved Hy	drology			Wie	dth (ft.)	) across Existing	Water			
🗆 Perennial	Flow Dr	y 🗆 Lov	w □ Mo	oderate	Flood	l Plain 🗆 Yes,	Measu	ure Bankfull Widt	:h (ft.)			
□ Intermittent	Stage 🗆 Hig	gh 🗆 Flo	od		Pre	esent? 🗆 No, Me	asure T	Гор of Bank Widt	:h (ft.)			
Ephemeral	Flow Direction				-	Width (ft.) acros	s Ordin	ary High Water I	Mark*			
Undetermined	Average Depth				-	*Ordinary Hic	gh Wate	er Mark Indicato	<u>rs</u>			
<u>Streambed Su</u>	<u>ubstrate</u>	<u>Chanı</u>	nel Gradient	<u>.</u>	🗆 Natura	al Line Impressed o	n Bank	□ Scour	🗆 Wrack			
□ Shale □ S	and	□ <2% (	<1°) Gentle		□ Mattee	d, bent, or Absent	Vegeta	tion 🗆 Water	Staining			
□ Bedrock □ C	Organic	□ 2 - 4%	б (1 - 2°) Мо	derate	🗆 Soil Ch	aracter Change		🗆 Shelvir	ng			
□ Boulders □ C	obble/Gravel	□ 4 - 10	% (2 - 6°) St	eep	□ Terres	trial Vegetation De	estroyed	d □ Bed &	Banks			
□ Silt □ C	lay	□ >10%	(>6°) Very S	Steep	🗆 Disturi	bed/Washed-away	' Leaf Li	itter 🛛 Litter &	& Debris			
□ Other					□ Plant Community Change □ Sediment Sorting							
	<u>Observed</u>	Use			🗆 Multip	le Observed Flow	Events	🗆 Deposi	tion			
□ Boating □ Sh	ellfishing 🛛 Sw	rimming	□ Irrigatior	ו		<u>v</u>	Vater O	Quality				
□ Fishing □ Dra	ainage 🛛 Dr	inking	🗆 Aquacult	ure	🗆 Clear	🗆 Turbid	🗆 Sligh	htly Turbid	□ Very Turbid			
Other					Comments							
Ba	nk Slope		Left*	Right*	<u>Bank</u>	< Height (ft.)		Bank Erosion	<u>Potential</u>			
0 - 8% (0 - 5°)	Nearly Level - Ge	ntly Sloping			_	Left*		Left*	Right*			
8 - 15% (5 - 9°)	Moderately Slopi	ng				Right*		Low				
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Banl	<u> Substrate</u>			<u>A</u>	Aquatic Habitat Estimated Canop							
Shale     Gravel	□ Silt/Clay	🗆 Cobble	🗆 Aqua	tic Vegetati	getation 🗆 Mud Bar 🗍 0 - 10%			□ 0 - 10%	□ 50 - 60%			
🗆 Bedrock 🛛 Sand	🗆 Riprap	□ Organic	🗆 Overł	nanging Veg	etation	□ Sand Bar		□ 10 - 20%	□ 60 - 70%			
Other			🗆 Unde	rcut Banks		🗆 Riffle - Pool		□ 20 - 30%	□ 70 - 80%			
Comments			🗆 Grave	el Bar		Plunge Pools		□30 - 40%	□ 80 - 90%			
			🗆 Other	·		□90 - 100%						



Stream	Deline	eation	ID

Adjacent	Commun	ity Type																		
Percen	<u>t Cover</u>		Domi	nant S	specie	<u>s</u>														
Trees																				
Shrubs																				
Herbaceous																				
Woody Vines																				
Bare Soil/Rock			Туре																	
Impervious			Туре																	
								<u>Obse</u>	rved F	auna										
	aterfowl		🗆 Fis	h		🗆 Sal	aman	ders		🗆 Mi	nk			🗆 Ot	her					
🗆 Sn	akes		□Fro	gs		□Ве	aver			□ Ot	ter									
🗆 Tu	rtles		🗆 То	ads		Π Μι	uskrat			🗆 Inv	rteb	rates								
					Prese	nce of	Rare,	Threa	tened	, or Er	ndang	ered S	pecies	<u>.</u>						
□ No □ Yes Species & Evidence																				
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Notes (include weather, site access issues, culverts, etc.)																				
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Project Name						Date						
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Stream Delineati	on ID		Stream N	lame								
	Stream Loca	ation										
(e.g. ne	arest road, struc	ture)										
Presumed Regulatory	<u>Authority</u>											
U.S. Army Corps	Ratic State	onale:										
<u>Stream Class</u>	<u>(</u>	bserved Hy	drology			Wie	dth (ft.)	) across Existing	Water			
🗆 Perennial	Flow Dr	y 🗆 Lov	w □ Mo	oderate	Flood	l Plain 🗆 Yes,	Measu	ure Bankfull Widt	:h (ft.)			
□ Intermittent	Stage 🗆 Hig	gh 🗆 Flo	od		Pre	esent? 🗆 No, Me	asure T	Гор of Bank Widt	:h (ft.)			
Ephemeral	Flow Direction				-	Width (ft.) acros	s Ordin	ary High Water I	Mark*			
Undetermined	Average Depth				-	*Ordinary Hic	gh Wate	er Mark Indicato	<u>rs</u>			
<u>Streambed Su</u>	<u>ubstrate</u>	<u>Chanı</u>	nel Gradient	<u>.</u>	🗆 Natura	al Line Impressed o	n Bank	□ Scour	🗆 Wrack			
□ Shale □ S	and	□ <2% (	<1°) Gentle		□ Mattee	d, bent, or Absent	Vegeta	tion 🗆 Water	Staining			
□ Bedrock □ C	Organic	□ 2 - 4%	б (1 - 2°) Мо	derate	🗆 Soil Ch	aracter Change		🗆 Shelvir	ng			
□ Boulders □ C	obble/Gravel	□ 4 - 10	% (2 - 6°) St	eep	□ Terres	trial Vegetation De	estroyed	d □ Bed &	Banks			
□ Silt □ C	lay	□ >10%	(>6°) Very S	Steep	🗆 Disturi	bed/Washed-away	Leaf Li	itter 🛛 Litter &	& Debris			
□ Other					□ Plant Community Change □ Sediment Sorting							
	<u>Observed</u>	Use			🗆 Multip	le Observed Flow	Events	🗆 Deposi	tion			
□ Boating □ Sh	ellfishing 🛛 Sw	rimming	□ Irrigatior	ו		<u>v</u>	Vater O	Quality				
□ Fishing □ Dra	ainage 🛛 Dr	inking	🗆 Aquacult	ure	🗆 Clear	🗆 Turbid	🗆 Sligh	htly Turbid	□ Very Turbid			
Other					Comments							
Ba	nk Slope		Left*	Right*	<u>Bank</u>	< Height (ft.)		Bank Erosion	<u>Potential</u>			
0 - 8% (0 - 5°)	Nearly Level - Ge	ntly Sloping			-	Left*		Left*	Right*			
8 - 15% (5 - 9°)	Moderately Slopi	ng				Right*		Low				
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25 - 35% (14 - 20°)	Steep				* Directi	ion when facing		High				
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Banl	<u> Substrate</u>			<u>A</u>	Aquatic Habitat Estimated Canop							
Shale     Gravel	□ Silt/Clay	🗆 Cobble	🗆 Aqua	tic Vegetati	getation 🗆 Mud Bar 🗍 0 - 10%			□ 0 - 10%	□ 50 - 60%			
🗆 Bedrock 🛛 Sand	🗆 Riprap	□ Organic	🗆 Overł	nanging Veg	etation	□ Sand Bar		□ 10 - 20%	□ 60 - 70%			
Other			🗆 Unde	rcut Banks		🗆 Riffle - Pool		□ 20 - 30%	□ 70 - 80%			
Comments			🗆 Grave	el Bar		Plunge Pools		□30 - 40%	□ 80 - 90%			
			🗆 Other	·		□90 - 100%						



Stream	Deline	eation	ID

Adjacent	Commun	ity Type																		
Percen	<u>t Cover</u>		Domi	nant S	specie	<u>s</u>														
Trees																				
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	aterfowl		🗆 Fis	h		🗆 Sal	aman	ders		🗆 Mi	nk			🗆 Ot	her					
🗆 Sn	akes		□Fro	gs		□Ве	aver			□ Ot	ter									
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Project Name				Date								
Project Number				Evaluated By								
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USGS Quadrangle(s):												
Stream Delineati	on ID		Stream N	lame								
	Stream Loca	ation										
(e.g. ne	arest road, struc	ture)										
Presumed Regulatory	Authority											
U.S. Army Corps	Ratio											
Stream Class	<u>(</u>	bserved Hy	drology		Wie	dth (ft.)	) across Existing V	Water				
🗆 Perennial	Flow 🗆 Dr	y 🗆 Lov	w 🗆 Mo	oderate	Flood	l Plain 🗆 Yes,	Measu	ure Bankfull Widt	:h (ft.)			
□ Intermittent	Stage 🗆 Hig	od		Pre	esent? 🛛 No, Me	asure T	Гор of Bank Widt	:h (ft.)				
Ephemeral	Flow Direction				-	Width (ft.) acros	s Ordin	ary High Water I	Mark*			
Undetermined	Average Depth				-	<u>*Ordinary Hic</u>	gh Wate	er Mark Indicato	<u>rs</u>			
<u>Streambed St</u>	<u>ubstrate</u>	<u>Chanı</u>	nel Gradient		🗆 Natura	🗆 Wrack						
□ Shale □ S	and	□ <2% (	<1°) Gentle		□ Matted, bent, or Absent Vegetation □ Water Staining							
Bedrock C	Drganic	□ 2 - 4% 	6 (1 - 2°) Mo	derate	Sourcharacter Change     Shelving							
Boulders C	cobble/Gravel	□ 4 - 10 	% (2 - 6°) St	eep	I errestrial Vegetation Destroyed Bed & Banks							
	Clay	□ >10%	(>6°) Very S	steep	Disture	& Debris						
Other												
	<u>Observed</u>	Use	_		Multiple Observed Flow Events     Deposition							
Boating Sh	ellfishing 🗆 Sw	vimming	□ Irrigatior	ו		<u>v</u>	Vater C	<u>Quality</u>	<b>-</b>			
	ainage 🗆 Dr	inking	□ Aquacult	ure	Ll Clear	□ Very Turbid						
			*	<b>D</b> '*	Comments				De tra attal			
0 - 8% (0 - 5°)	<u>INK Slope</u> Nearly Lovel - Ge	ntly Sloping	Left*	Rignt≁	Bank	( Height (ft.)		Bank Erosion	Potential			
8 - 15% (5 - 9°)	Moderately Slopi	ng				Right*		Len	Ngin			
15 - 25% (9 - 14°)	Steeply Sloping						Mode	erate				
25 - 35% (14 - 20°)	Steep				* Directi	on when facing		High				
>35% (>20°)	Very Steep				do	wnstream		·				
Banl	<u> Substrate</u>			<u>A</u>	quatic Habit	tat		Estimated Canopy Closure				
Shale     Gravel	□ Silt/Clay	□ Cobble	🗆 Aqua	tic Vegetati	on	□ Mud Bar		□ 0 - 10%	□ 50 - 60%			
🗆 Bedrock 🛛 Sand	🗆 Riprap	□ Organic	🗆 Overl	nanging Veg	getation	□ Sand Bar		□ 10 - 20%	□ 60 - 70%			
Other			🗆 Unde	rcut Banks		🗆 Riffle - Pool		□ 20 - 30%	□ 70 - 80%			
Comments			🗆 Grave	el Bar		Plunge Pools		□30 - 40%	□ 80 - 90%			
	🗆 Other			□ 40 - 50%	□90 - 100%							



Stream	Deline	eation	ID

Adjacent Community Type																				
Percen	<u>t Cover</u>		Dominant Species																	
Trees																				
Shrubs																				
Herbaceous																				
Woody Vines																				
Bare Soil/Rock Type																				
Impervious			Туре																	
Observed Fauna																				
	aterfowl		🗆 Fis	h		🗆 Sal	aman	ders		🗆 Mi	nk			🗆 Ot	her					
🗆 Sn	akes		□Fro	gs		□Ве	aver			□ Ot	ter									
🗆 Tu	rtles		🗆 То	ads		Π Μι	uskrat			🗆 Inv	rteb	rates								
Presence of Rare, Threatened, or Endangered Species																				
□ No □ Yes Species & Evidence																				
🗆 Un	determine	ed																		
				N	lotes (	includ	e wea	ther, s	site ac	cess is	sues,	culver	ts, etc	:.)						
Sketch (Optional)																				
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Project Name				Date								
Project Number				Evaluated By								
Address				-								
USGS Quadrangle(s):												
Stream Delineati	on ID		Stream N	lame								
	Stream Loca	ation										
(e.g. ne	arest road, struc	ture)										
Presumed Regulatory	Authority											
U.S. Army Corps	Ratio											
Stream Class	<u>(</u>	bserved Hy	drology		Wie	dth (ft.)	) across Existing V	Water				
🗆 Perennial	Flow 🗆 Dr	y 🗆 Lov	w 🗆 Mo	oderate	Flood	l Plain 🗆 Yes,	Measu	ure Bankfull Widt	:h (ft.)			
□ Intermittent	Stage 🗆 Hig	od		Pre	esent? 🛛 No, Me	asure T	Гор of Bank Widt	:h (ft.)				
Ephemeral	Flow Direction				-	Width (ft.) acros	s Ordin	ary High Water I	Mark*			
Undetermined	Average Depth				-	<u>*Ordinary Hic</u>	gh Wate	er Mark Indicato	<u>rs</u>			
<u>Streambed St</u>	<u>ubstrate</u>	<u>Chanı</u>	nel Gradient		🗆 Natura	🗆 Wrack						
□ Shale □ S	and	□ <2% (	<1°) Gentle		□ Matted, bent, or Absent Vegetation □ Water Staining							
Bedrock C	Drganic	□ 2 - 4% 	6 (1 - 2°) Mo	derate	Sourcharacter Change     Shelving							
Boulders C	cobble/Gravel	□ 4 - 10 	% (2 - 6°) St	eep	I errestrial Vegetation Destroyed Bed & Banks							
	Clay	□ >10%	(>6°) Very S	steep	Disture	& Debris						
Other												
	<u>Observed</u>	Use	_		Multiple Observed Flow Events     Deposition							
Boating Sh	ellfishing 🗆 Sw	vimming	□ Irrigatior	ו		<u>v</u>	Vater C	<u>Quality</u>	<b>-</b>			
	ainage 🗆 Dr	inking	□ Aquacult	ure	Ll Clear	□ Very Turbid						
			*	<b>D</b> '*	Comments				De tra attal			
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