Wetland and Stream Delineation Report

Addendum

Heritage Wind Project

Town of Barre

Orleans County, New York

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Wetland and Stream Delineation Report Addendum Heritage Wind Project

1.0 INTRODUCTION

1.1 PROJECT LOCATION AND DESCRIPTION

In February 2020, Environmental Design & Research, Landscape Architecture, Engineering, & Environmental Services, D.P.C. (EDR) prepared a Wetland Delineation Report for the proposed Heritage Wind Project (the Facility) in Orleans County, New York. The report was submitted to the New York State Department of Public Service (DPS) as a part of Exhibit 22 of the Application for a Certificate of Environmental Compatibility and Public Need, in accordance with Article 10 of the Public Service Law (Article 10 Application) on March 13, 2020. The report addressed potentially jurisdictional wetlands that were formally delineated within 500 feet of areas to be potentially disturbed by construction of the Facility. Additionally, an addendum to this report was submitted in August 2020 that addressed updates to the design of the Facility – namely the relocation of the laydown yard.

This report addendum addresses an additional wetland and stream delineation effort that was conducted to include proposed updates to the design of the Facility – namely the removal of six turbines, the relocation of four of those turbines and the associated rerouting of collection lines and access roads, the addition of temporary power performance towers, and the addition of a new laydown yard (see Figure 1). Information provided herein is meant to serve as an addendum to the previously submitted February 2020 Wetland Delineation Report and August 2020 addendum.

EDR completed a desktop review using the National Wetland Inventory (NWI) and New York State Department of Environmental Conservation (NYSDEC) Freshwater Wetlands mapping prior to conducting field delineations of wetlands within 500 feet of the new proposed Facility infrastructure ("Study Area"). The field delineations were conducted in April 2022 and herein referred to as the Study Area which used the methodology described in Section 4.1 of the February 2020 Wetland Delineation Report.

2.0 FEDERAL AND STATE MAPPED WETLANDS AND STREAMS

NWI mapping indicates the presence of 19 wetland communities within the Study Area, totaling 104.4 acres (Figure 2). Forested and shrub wetland are the dominant wetland community types mapped on site, totaling approximately 89.7 acres. Other NWI-mapped wetland communities within the Study Area include farmed palustrine wetlands (12.2 acres), and riverine wetlands (2.5 acres).

Review of New York State (NYS) Freshwater Wetlands mapping indicates that there is one wetland (AL-18) that is regulated under Article 24 of the Environmental Conservation Law (ECL) intersecting the Study Area. There are two additional NYSDEC regulated wetlands directly adjacent to the Study Area; HO-22 and HO-19 (see Figure 2). Based on available NYSDEC stream classification mapping, the Study Area includes two Class C streams. There are no State protected streams and tributaries mapped within the Study Area (see Table 1 and Figure 2).

2.1 MAPPED FLOODPLAINS

According to Federal Emergency Management Agency (FEMA) map services, no portion of the Study Area is located within a mapped floodplain.

3.0 REGULATORY AUTHORITIES AND PERMITS

3.1 WATERS OF THE UNITED STATES

In accordance with Section 404 of the Clean Water Act (CWA), the USACE has regulatory jurisdiction over Waters of the Unites States (WOTUS). As defined by the USACE, WOTUS include lakes, ponds, streams (intermittent and perennial), tidal waters, and wetlands. 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" (USEPA, 2001). Such areas are indicated by the presence of three conditions: 1) a dominance of hydrophytic vegetation, 2) the presence of hydric soils, and 3) evidence of wetland hydrology during the growing season (Environmental Laboratory, 1987).

The Clean Water Rule (the "2015 Rule"), effective August 28, 2015, was adopted to provide a clearer and more consistent approach to defining the scope of the CWA and WOTUS. However, in February 2017, an Executive Order was issued directing the United States Environmental Protection Agency (USEPA) and USACE to review and rescind or revise the 2015 Rule. On April 21, 2020, the USEPA and USACE published The Navigable Waters Protection Rule: Definition of "Waters of the United States" (USACE and USEPA, 2020) as a replacement for the 2015 Rule. However, on August 30, 2021, the US District Court threw out the 2020 replacement rule due to procedural errors in its issuance, noting that implementation of the rule could lead to "serious environmental harm" (Pasqua Yaqui Tribe v. USEPA, 2021), thereby restoring the definition of regulated WOTUS to the pre-2015 Rule (i.e., Rapanos v. United States, 2006 and Carabell v. United States, 2006). Four major elements of the 2015 Rule that define jurisdictional waters are summarized below:

- 1. **Traditional navigable waters** (TNW). The agencies will assert jurisdiction over TNW, interstate waters, territorial seas, and impoundments of jurisdictional waters consistent with existing regulations.
- Wetlands adjacent to TNW. The agencies will assert jurisdiction over wetlands adjacent to TNW. Regulations define "adjacent" as "bordering, contiguous, or neighboring, including waters separated from other 'waters of the United States' by constructed dikes or barriers, natural river berms, beach dunes and the like" (USEPA, 2022).
- 3. **Non-navigable tributaries.** The agencies will assert jurisdiction over non-navigable tributaries of traditional navigable waters that are relatively permanent, where the tributaries typically flow year-round or have continuous flow at least seasonally.

 Wetlands that directly abut such tributaries. The agencies will assert jurisdiction over wetlands adjacent to jurisdictional non-navigable tributaries, using the same definition of "adjacent" provided above.

Where waters cannot be categorized as jurisdictional as listed above, the agencies will conduct a significant nexus analysis to determine jurisdiction on a case-by-case basis. The significant nexus analysis considers waters that are similarly situated to known jurisdictional waters based on their flow characteristics and functions, to determine if they significantly affect the chemical, physical, and/or biological integrity of downstream TNWs. The following waters may be regulated based on the results of the significant nexus analysis:

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

Agencies will typically not assert jurisdiction over swales or erosional features, or ditches excavated wholly in and draining only uplands and that do not carry a relative permanent flow of water.

For the purposes of this investigation, the initial presumption is that all delineated wetlands and streams within the Study Area could be jurisdictional under Section 404 of the CWA. A Section 404 permit from the USACE is required for activities that result in the placement of dredged or fill materials in WOTUS. In addition to Section 404 of the CWA, Section 10 of the Rivers and Harbor Act requires a permit from the USACE to construct any structure in or over any traditional navigable waters of the United States, as well as any proposed action that would alter or disturb these waters (such as excavation/dredging or deposition of materials). The Study Area does not include any navigable waters, and therefore, Section 10 is not applicable to the proposed Project.

3.2 NEW YORK STATE FRESHWATER WETLANDS AND PROTECTED STREAMS

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. The Freshwater Wetlands Act requires the NYSDEC to map all state-protected wetlands to allow landowners and other interested parties a means of determining where state-jurisdictional wetlands exist. To implement the policy established by this Act, regulations were promulgated by the state under 6 NYCRR Parts 663 and 664. Part 664 of the regulations designates wetlands into four class ratings, with Class I being the highest or best quality wetland, and Class IV being the lowest. In general, wetlands regulated by the state are those 12.4 acres in size or larger. Smaller wetlands can also be regulated if they are considered of unusual local importance. A 100-foot adjacent area around the delineated boundary of any state regulated wetland is also under NYSDEC jurisdiction. An Article 24 permit is typically required from the NYSDEC for any disturbance to a state-protected wetland or adjacent area. However, under Section 94-c of the New York Executive Law (Section 94-c) this permitting authority has been delegated to the ORES.

Under Article 15 of the ECL (Protection of Waters), the NYSDEC has regulatory jurisdiction over any activity that disturbs the bed or banks of protected streams or other watercourse. In addition, small lakes and ponds with a surface area of 10 acres or less, located within the course of a stream, are considered to be part of a stream and are subject to regulation under the stream protection category of Article 15. According to 6 NYCRR Part 608.1(aa), protected streams include 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, or C(T) or C(TS). 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. An Article 15 permit is typically required from the NYSDEC for any disturbance to the bed and banks of protected streams, with special requirements applied to streams designated as supporting trout or trout spawning. Where banks are not clearly defined, the NYSDEC may extend permitting jurisdiction to 50 feet beyond the stream. As with Article 24, under Section 94-c, permitting authority Article 15 permitting has been delegated to the ORES.

In addition to the protection of waters permit required to change, modify, or disturb protected streams, Article 15 also requires a permit to construct any structure in or above any navigable WOTUS, as well as any proposed action that would alter or disturb these waters (such as excavation/dredging or deposition of materials). The Study Area does not include any navigable waters. Therefore, these sections of Article 15 are not applicable to the proposed Facility.

4.0 ON-SITE WETLAND AND STREAM DELINEATION

EDR environmental scientists Bennett Amberger and Joshua Bean conducted field delineations of wetlands and streams in the Study Area on April 18-20, 2022, using the same methodology as described in the February 2020 Wetland Delineation Report. The methodology is outlined as follows:

The identification of wetland boundaries was based on the methodology described in the *Corps of Engineers Wetland Delineation Manual* (Environmental Laboratory, 1987). Determination of wetland boundaries was also guided by the methodologies presented in the *Regional Supplement to the Corps of Engineers Wetland Delineation Manual*: *Northcentral and Northeast Region, Version 2.0* (USACE, 2012). Attention was given to the identification of potential hydrologic connections between wetlands and areas that could influence their jurisdictional status.

Wetland boundaries were defined in the field with sequentially numbered pink surveyor's flagging and mapped using a GPS unit with reported sub-meter accuracy. Data were collected from sample plots in representative wetland cover types and recorded on U.S. Army Corps of Engineers (USACE) Routine Wetland Determination forms (see Appendix B). The data collected at each delineated wetland included dominant vegetation, hydrology indicators, and soil characteristics.

The Regional Supplement lists the following primary indicators of wetland hydrology: (A1) surface water, (A2) high water table, (A3) saturation, (B1) water marks, (B2) sediment deposits, (B3) drift deposits, (B4) algal

mat or crust, (B5) iron deposits, (B7) inundation visible on aerial imagery, (B8) sparsely vegetated concave surface, (B9) water-stained leaves, (B13) aquatic fauna, (B15) marl deposits, (C1) hydrogen sulfide odor, (C3) oxidized rhizospheres on living roots, (C4) presence of reduced iron, (C6) recent iron reduction in tilled soils, and (C7) thick muck surface. Per the Regional Supplement, the presence of any one of these "primary" indicators are sufficient evidence that wetland hydrology is present. In addition, the Regional Supplement identifies the following secondary indicators which were also used by EDR environmental scientists to determine wetland hydrology: (B6) surface soil cracks, (B10) drainage patterns, (B16) moss trim lines, (C2) dry-season water table, (C8) crayfish burrows, (C9) saturation visible on aerial imagery, (D1) stunted or stressed plants, (D2) geomorphic position, (D3) shallow aquitard, (D4) microtopographic relief, and (D5) FAC-neutral test. In accordance with the Regional Supplement, in the absence of a primary indicator, the presence of any two of these "secondary" indicators is considered a suitable indication of wetland hydrology.

Assessment of vegetation focused on the identification of dominant plant species in four categories: trees (greater than 3 inches diameter at breast height), saplings/shrubs (less than 3.0 inches diameter at breast height and greater than 3.2 feet tall), herbs (all vegetation less than 3.2 feet tall), and woody vines. Dominance was determined by visually estimating those species having the greatest absolute percent cover within each stratum. Wetland indicator status for dominant plant species was determined by reference to the National Wetland Plant List (USACE, 2018; USDA NRCS, 2021). Wetlands are indicated by a dominance of hydrophytic plant species.

Hydric soils are those that are poorly drained and are saturated, flooded, or ponded long enough during the growing season to develop anaerobic conditions in the upper part of the soil layer. The presence of hydric soils is indicative of the presence of wetlands (Environmental Laboratory, 1987). Hydric soil conditions were determined in the field through observation of soils composition, color, and morphology. Soils data were collected by using a Dutch auger and tiling spade to examine the soil profile. Soil colors were determined using Munsell Soil Charts (Munsell Color, 2009). Information concerning soil series, color, texture, and matrix and redoximorphic feature color was recorded for each delineated wetland and used to determine whether the soils displayed hydric characteristics.

Streams were classified as perennial, intermittent or ephemeral according to the Cowardin Classification System (2013), and stream boundaries were determined based on the presence of ordinary high water line characteristics, including 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*" (33 CFR Part 329.11). Stream boundaries were defined and mapped in the field using the same method as described above for wetlands. Stream flow regime (i.e., perennial, intermittent, or ephemeral) was determined through evaluation of hydrologic, geomorphic, and biological characteristics (NC DWQ, 2010). Data regarding stream gradient (gentle, moderate, or steep), stream bank and channel width, water depth, stream bed substrate, in-stream cover, and biological indicators were collected and recorded on stream inventory forms (see Appendix B).

Photographs were taken of each wetland and stream delineated within the Study Area. Representative photographs of each feature delineated are included in Appendix C.

4.1 HYDROLOGY

Total annual precipitation averages 49.80 inches in nearby Albion, New York for the 2001-2021 period. (USDA, 2022). Wetland and stream delineations occurred in May 2022. Average precipitation for the preceding month of April was 2.18 inches which is lower than the average monthly climate normal for the area of 3.25 inches of rain in April from 1991 – 2020 (USDA, 2022).

5.0 RESULTS

Results of the field delineation identified nine wetlands and nine streams within the Study Area (see Figure 3). The data collected at each delineated wetland and stream are summarized below in Table 1. In accordance with the Cowardin et al. (1979) classification system, the waters delineated within the Study Area were classified into the following community types: palustrine emergent wetland (PEM), palustrine forested wetland (PFO), perennial stream (R3), intermittent stream (R4) and ephemeral stream (R6).

Delineation	Latitude Longitu		Delineated Wetland Acreage Within Study Area by Type ²				Stream	Linear Feet of Stream	Anticipated Federal	Anticipated
ID ¹	Centroid	Centroid	PEM	PSS	PFO	Total	Type ³	Within Study Area	CWA Jurisdiction ⁴	Jurisdiction ⁵
66W01	43.2082	-78.1236	5.70		0.55	6.25			Yes	Yes
66W04	43.1453	-78.1725	0.07			0.07			Yes	No
66W06	43.1463	-78.1721	0.12			0.12			Yes	No
66W07	43.1472	-78.1655			0.27	0.27			Yes	No
66W08	43.1499	-78.1675			6.15	6.15			Yes	No
66W09	43.1509	-78.1678	0.15		1.95	2.1			Yes	No
66W10	43.1525	-78.1651	0.25		11.6	11.88			Yes	Yes
66W11	43.1537	-78.1677	0.06			0.06			Yes	No
66W14	43.16114	78.22243	0.27			0.27			Yes	No
66ST01	43.1469	-78.1803					R4	1,654	Yes	No
66ST02	43.1479	-78.1785					R6	129	Yes	No
66ST03	43.1449	-78.1693					R3	61	Yes	No
66ST04	43.1458	-78.1718					R4	496	Yes	No
66ST05	43.1475	-78.1667					R6	826	Yes	No
66ST06	43.1529	-78.1655					R3	2,778	Yes	No
66ST07	43.1521	-78.1666					R6	1,817	Yes	No
66ST08	43.1491	-78.1703					R6	54	Yes	No
66ST10	43.151	-78.1663					R6	906	Yes	No

Table 1. Delineated Wetlands and Streams within the Study Area

¹ Field ID assigned by EDR.

² Wetland community types are based upon the Cowardin et al. (1979) classification system: palustrine emergent wetland (PEM), palustrine forested wetland (PFO).

³ Stream type is based upon the Cowardin et al. (1979) classification system: perennial stream (R3), intermittent stream (R4), ephemeral stream (R6)

⁴ Based on visual observation of hydrologic connectivity in the field and review of available spatial data. Final jurisdiction al determination to be made by the USACE.

⁵ Based on existing NYSDEC mapping of freshwater wetlands and streams.

All of the delineated wetlands and streams included in Table 1 are likely to be considered jurisdictional by the USACE under Section 404 of the Clean Water Act. Two delineated wetlands (66W01 and 66W10) appear to be under New York State jurisdiction because they overlap or are hydrologically connected with the mapped locations of NYS Freshwater Wetlands HO-22 and AL-18. No delineated streams within the Study Area appear to be protected under Article 15 of the ECL based on NYSDEC stream classification/mapping.

Descriptions of the delineated wetlands within the Study Area are provided below in Sections 5.1, while Section 5.2 provides descriptions of the delineated streams within the Study Area.

5.1 WETLANDS

Within the Study Area, the field delineation identified nine wetlands totaling 27.2 acres. Descriptions of each wetland community type are presented below. Note that three wetlands identified contained more than one Cowardin Classification System (2013) community type. For all nine delineated wetlands within the Study Area, Table 1 indicates the area occupied by each community type.

Emergent Wetlands (PEM) – (See Photos 1, 2, 3, 8, and 9 in Appendix C).

A total of seven wetlands identified within the Study Area contained persistent emergent vegetation. These wetlands were typically located in depressional areas within or adjacent to active agricultural fields, where sheet flow run-off precipitation from the open fields accumulates. The emergent wetlands on site were characterized by the dominance of erect rooted herbaceous wetland plants, including reed canary grass (Phalaris arundinacea), soft rush (Juncus effusus), spring beauty (Montia chamissoi), cursed crowfoot (Ranunculus scleratus), blackberry (Rubus sp.), narrow leaf cattail (Typha angustifolia), red seeded dandelion (Taraxacum officinale), silky dogwood (Cornus amomum), timothy grass (Phleum alpinum) wintercress (Barbarea verna), and red osier dogwood (Cornus alba). Indicators of wetland hydrology in the emergent wetlands included surface water (A1), a high-water table (A2), saturation (A3), oxidized rhizospheres on living roots (C3), algal mat or crust (B4), presence of reduced iron (C4), thin muck surface C7), iron deposits (B5), stunted or stressed plants (D1), and FAC-neutral test (D5). Soils sampled within the emergent wetlands exhibited hydric soil indicators of depleted matrix (F3), redox dark surface (F6), and depleted dark surface (F7). The texture of soils in the emergent wetlands was generally characterized as clay loam, with some silt loam and silty clay loam in actively farmed and disturbed wetlands. The wetland-upland transitions were mostly very abrupt, with the adjacent uplands consisting of actively cultivated agricultural fields planted with corn (Zea mays) or soybeans (Glycine max).

Forested Wetlands (PFO) – (See Photos 4 to 7 in Appendix C)

Five of the wetlands identified within the Study Area were characterized by broad-leaved deciduous forest vegetation, with tree species greater than 20 feet tall. These wetlands were most often encountered adjacent to active agricultural fields, with their source of hydrology being water discharged from drainage tiling installed underneath the adjacent fields. Dominant overstory species included green ash (*Fraxinus pennsylvanica*), red maple (*Acer rubrum*), swamp white oak (*Quercus bicolor*), and American elm (*Ulmus americana*). Common shrub and sapling species in these wetlands included northern spicebush (*Lindera benzoin*), gray dogwood (*Cornus racemosa*), silky dogwood (*Cornus amomum*), European buckthorn (*Rhamnus cathartica*), American elm, and green ash. Herbaceous species in the forested wetlands included reed canary grass, white avens (*Geum canadense*), rough avens (*geum laciniatum*), yellow trout-lily (*Erythronium rostratum*), and Norwegian cinquefoil (*Potentilla norvegica*). Indicators of wetland hydrology included surface water (A1), a high-water table (A2), saturation (A3), water marks (B1), iron deposits (B5), water-stained leaves (B9), FAC-neutral test (D5), and drainage patterns (B10). The soils within these wetlands generally exhibited hydric soil indicators of depleted matrix (F3), depleted dark surface (F7), and redox dark surface (F6). Texture of the forested wetland soils were generally characterized as clay loam. The wetland-upland transition was relatively abrupt and followed site topography. Adjacent uplands consisted of

deciduous forests or agricultural fields planted with corn, soybeans, or hay. Overstories in adjacent upland deciduous forests were dominated by white oak (*Quercus alba*), black walnut (*Juglans nigra*), and green ash; a shrub layer dominated by gray dogwood and boxelder (*Acer negundo*); and a ground layer of Small's groundsel (*Packera anonyma*), blackberry (*Rubus sp.*), garlic mustard (*Alliaria petiolata*), yellow trout-lily, cow vetch (*Vica cracca*), white avens, and Kentucky blue grass (Poa pratensis). Hydric soil indicators such as a redox dark surface (F6) were observed in some of the adjacent uplands.

5.2 STREAMS

Within the Study Area, the field delineation identified nine streams totaling 8,721 linear feet. Descriptions of each stream feature are presented below. Table 1 indicates the flow regime and linear footage occupied by each stream feature delineated within the Study Area.

Stream 66ST01 is mapped as an unnamed, manmade NYSDEC-mapped class C stream. It is an intermittent stream that flows through Wetland C at the southern end of the Study Area. During the site visit, Stream 66ST01 had a well-developed channel with continuous banks, ranging in width from 5 to 7 feet, and water depth of up to 8 inches. This stream was characterized by a gentle gradient, overhanging vegetation, and a substrate consisting of gravel and sand (see Photo 12 in Appendix C). Biological indicators included observations of macroinvertebrates.

Stream 66ST02 is an ephemeral feature that connects to part of an unnamed NYSDEC-mapped class C stream. The channel appears to have formed from the installation of drainage tile in the adjacent active agriculture field. Stream 66ST02 had a moderately defined channel with an average width of 2 feet and an approximate water depth of 1 inch. The channel was characterized by a gentle gradient, poorly developed pool and riffle structure, and a substrate consisting of silt and clay (see Photo 13 in Appendix C). The particle size of the substrate was similar to the finer-textured clay loam soils in the adjacent uplands. Benthic algae were observed growing within the channel.

Stream 66ST03 is a perennial stream that is mapped as an unnamed NYSDEC-mapped class C stream. The stream exhibited an average width of 15 feet with moderate sinuosity. Stream 66ST03 had strongly defined channel continuity, and an average water depth of 14 inches at the thalweg. The stream channel was characterized by a gentle gradient, moderately developed pool and riffle structure, and substrate dominated by silt and clay, with some gravel and cobbles. Filamentous algae and macroinvertebrates were observed within the stream. Due to an equipment malfunction, there is no photo available for this feature.

Stream 66ST04 is a perennial stream that connects to part of an unnamed NYSDEC-mapped class C stream. The channel has formed from the installation of drainage tile in the adjacent active agriculture field. Stream 66ST04 has a well-defined channel with an average width of 6 feet and, at the time of delineation, an approximate water depth of 6 inches. The stream channel is characterized by a gentle gradient, poorly developed pool and riffle structure, and a substrate consisting of sand and silt/clay (see Photo 14 in Appendix C). Particle size of the stream substrate materials was similar to the finer-textured clay loam soils in the adjacent uplands. Benthic algae amphibians, and aquatic macroinvertebrates were observed within the stream.

Stream 66ST05 is an ephemeral channel that connects to an unnamed NYSDEC-mapped class C stream. The channel is a man-made drainage ditch adjacent to an active agriculture field. Stream 66ST05 has a welldefined channel with an average width of 4 feet and, at the time of delineation, an approximate water depth of 4 inches. The channel is characterized by a gentle gradient, poorly developed pool and riffle structure, and a substrate consisting of sand and silty clay (see Photo 15 in Appendix C). Particle size of the stream substrate materials was similar to the finer-textured clay loam soils in the adjacent uplands. Benthic algae and some macroinvertebrates were observed within the stream.

Stream 66ST06 is a perennial stream that connects to an unnamed NYSDEC-mapped class C stream. The channel is a man-made drainage ditch adjacent to an active agriculture field. Stream 66ST06 has a well-defined channel with an average width of 4 feet and, at the time of delineation, an approximate water depth of 6 inches. The stream channel is characterized by a gentle gradient, moderately developed pool and riffle structure, and a dominant substrate consisting of silt/clay and sand, with some gravel and cobble (see Photo 16 in Appendix C). Benthic algae and some macroinvertebrates were observed within the stream.

Stream 66ST07 is an ephemeral stream that connects to an unnamed NYSDEC-mapped class C stream. The channel is a man-made drainage ditch along a service road adjacent to an active agriculture field. Stream 66ST07 has a well-defined channel with an average width of 3 feet and, at the time of delineation, an approximate water depth of 2 inches. The stream channel is characterized by a gentle gradient, undeveloped pool and riffle structure, and a substrate consisting of silt and clay (see Photo 17 in Appendix C). Particle size of the stream substrate materials was similar to the finer-textured clay loam soils in the adjacent uplands. Benthic algae and some macroinvertebrates were observed within the stream.

Stream 66ST08 is an ephemeral stream that connects to an unnamed NYSDEC-mapped class C stream. The channel runs through a shrubland hedgerow connecting two active agriculture fields. Stream 66ST08 has a well-defined channel with an average width of 3 feet and, at the time of delineation, an approximate water depth of 2 inches. The stream channel is characterized by a gentle gradient, poorly developed pool and riffle structure, and a substrate consisting of silt and clay (see Photo 18 in Appendix C). Particle size of the stream substrate materials was similar to the finer-textured clay loam soils in the adjacent uplands. There was a general lack of biological indicators, as well as the presence of rooted upland plants and leaf litter within the channel.

Stream 66ST10 is an ephemeral stream that connects to an unnamed NYSDEC-mapped class C stream. The channel is a man-made drainage ditch along a service road adjacent to an active agriculture field. Stream 66ST05 has a well-defined channel with an average width of 3 feet and, at the time of delineation, an approximate water depth of 2 inches. The stream channel is characterized by a gentle gradient and a substrate consisting of silt/clay (see Photo 19 in Appendix C). Particle size of the stream substrate materials was similar to the finer-textured clay loam soils in the adjacent uplands. Benthic algae and some macroinvertebrates were observed within the stream.

6.0 CONCLUSIONS

Within the Study Area, the field delineation identified nine wetlands totaling 27.2 acres, and nine streams totaling 8,721 linear feet. All of the wetlands and streams within the Study Area appear to have surface water connections to other regulated waters, and therefore, are likely to be considered jurisdictional by the USACE under Section 404 of the Clean Water Act.

Two delineated wetlands are expected to fall under state jurisdiction pursuant to Article 24 due to their occurrence within, or hydrologic connection to, wetlands included on the NYSDEC Freshwater Wetlands Maps. The nine streams field delineated in the Study Area are not mapped as protected streams, and therefore are presumed not jurisdictional pursuant to Article 15 of the ECL. However, final determination of jurisdictional status of all waters delineated within the Study Area must be made by the USACE and NYSDEC.

7.0 REFERENCES

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APPENDIX A

Figures

Figure 1. Facility Layout Comparison



Heritage Wind Project

Town of Barre, Orleans County, New York

Wetland Delineation Report Addendum 2022





Prepared May 20, 2022 Basemap: ESRI ArcGIS Online "World Topographic Map" map service.



Sheet 1 of 5



Sheet 2 of 5

 Class	s C
NWI	Ма
NWI	Ма

ullet	Wind Turbine
	Access Road
	Collection Line
\square	Laydown Yard
	Study Area



Sheet 3 of 5



Sheet 4 of 5



Sheet 5 of 5









Heritage Wind Project

Town of Barre, Orleans County, New York

Wetland Delineation Report Addendum 2022

> Stream Flag
> Datapoint Stream
> Culvert
> Delineated Stream w/ Federal Jurisdiction
> Study Area



Sheet 2 of 9



Prepared May 20, 2022 Basemap: NYSDOP "2020" orthoimagery map service.

EDR



Sheet 3 of 9





Sheet 5 of 9

EDR



Heritage Wind Project Town of Barre, Orleans County, New York

Wetland Delineation Report Addendum 2022





Sheet 6 of 9



Prepared May 20, 2022 Basemap: NYSDOP "2020" orthoimagery map service.











Heritage Wind Project

Town of Barre, Orleans County, New York

Wetland Delineation Report Addendum 2022

 Wetland Flag
 Datapoint Wetland
 Wetland Continues
 Delineated Wetland w/ State & Federal Jurisdiction
 Study Area



Sheet 8 of 9



Prepared May 20, 2022 Basemap: NYSDOP "2020" orthoimagery map service.

EDR



APPENDIX B

Routine Wetland Determination Data Sheets and Stream Inventory Forms

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site:	16153 He	eritage Wind	City/	County: To	wn of Barre, Or	leans County	Sampling Date:	04/18/2022
Applicant/Owner:		Herit	Heritage Wind, LLC State: New York Sampling Poi					
Investigator(s):		JB BA	Sect	ion. Township. Ra	inae:	To	wn of Barre	-
Landform (hillslope, terra	ace, etc):	Flat	Local relief (c	oncave, convex,	none):	concave	Slop	e (%): 0-5
Subregion (LRR or MLRA	A):	LRR L	Lat:	43.209875	Long:	-78.120041	67 Datu	m: WGS 1984
Soil Map Unit Name:	KaA: Kendaia an	d Appleton soils,	0 to 3 percent slopes	, bedrock substrat	tum (294043)	NWI classification	on:	N/A
Are climatic / hydrologic o	conditions on the s	site typical for this	s time of year? Yes	X No	(If no	, explain in Remark	(s.)	
Are Vegetation X	, Soil , c	or Hydrology	significantly distu	urbed?	Are "Normal Ci	rcumstances" prese	ent? Yes	X No
Are Vegetation	_, Soil, c	or Hydrology	naturally problem	natic?	(If needed, exp	lain any answers in	Remarks.)	
SUMMARY OF FIN	DINGS - Attac	h site map s	howing samplin	a point locati	ons. transe	cts. important	features. etc.	
	n Brosont?	Voc	No V	le the Sam	plod Aroa	••••, p •••••		
Hydria Sail Dragont?	II Flesent?	Yee		is the Sali	pieu Area	Vee	No. Y	
Motiond Hydrology Dr	acont?	Yes				tes		
	esent?	ies		li yes, opuc	inal wettand Si	le ID.		
Remarks: (Explain alte Soy bean	rnative procedures i field, disturbed ve	s here or in a se egetation via acti	parate report.) ve agriculture.					
HYDROLOGY								
Wetland Hydrology Ir	ndicators:							
Primary Indicators (mir	nimum of one requ	uired; check all th	nat apply)			Secondary Indica	ators (minimum of	two required)
Surface Water (A	.1)		Water-Stained Leav	/es (B9)		Surface Soi	l Cracks (B6)	
High Water Table	(A2)		Aquatic Fauna (B13	3)		Drainage Pa	atterns (B10)	
Saturation (A3)			Marl Deposits (B15)		Moss Trim I	₋ines (B16)	
Water Marks (B1))		Hydrogen Sulfide C	dor (C1)		Dry-Season	Water Table (C2)	1
Sediment Deposit	ts (B2)		Oxidized Rhizosphe	eres on Living Ro	ots (C3)	Crayfish Bu	rrows (C8)	
Drift Deposits (B3	3)		Presence of Reduc	ed Iron (C4)		Saturation \	/isible on Aerial In	nagery (C9)
Algal Mat or Crus	it (B4)		Recent Iron Reduct	ion in Tilled Soils	(C6)	Stunted or S	Stressed Plants (D	91)
Iron Deposits (B5))		Thin Muck Surface	(C7)		Geomorphic	Position (D2)	
Inundation Visible	on Aerial Imagery	y (B7)	Other (Explain in R	emarks)		Shallow Aq	uitard (D3)	
Sparsely Vegetate	ed Concave Surfac	ce (B8)				Microtopogi	aphic Relief (D4)	
						FAC-Neulla	i Test (D5)	
Field Observations:								
Surface Water Present	t? Yes _	No <u>X</u>	Depth (inches):					
Water Table Present?	Yes _	<u>No X</u>	Depth (inches):	<u> </u>				
Saturation Present?	Yes _	NoX	Depth (inches):	<u> </u>	Wetland Hyd	drology Present?	Yes	No X
(includes capillary fring	je)							
Describe Recorded Da	ata (stream gauge.	monitoring well.	aerial photos, previou	us inspections), if	available:			
		,	,, p, p	·····				
Remarks:								
-								

VEGETATION - Use scientific names of plants.

Sampling Point: 66W01-01U

Tree Stratum (Plot size: <u>30 Feet</u>) 1.	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: 1 Total Number of Dominant Species Across All Strata: 2
2. 3. 4. 5.				Percent of Dominant Species That Are OBL, FACW, or FAC: 50.0 (A/B)
6. 7. Sapling/Shrub Stratum (Plot size: 15 Feet) 1. 2. 3.	0	 = Total Cov	er	Prevalence Index worksheet:Total % Cover of:Multiply by:OBL species0 $x 1 = 0$ FACW species0 $x 2 = 0$ FAC species5 $x 3 = 15$ FACU species0 $x 4 = 0$ UPL species5 $x 5 = 25$
4 5 6				Column Totals: 10 (A) 40 (B) Prevalence Index = $B/A =$ 4.0
<i>Herb Stratum</i> (Plot size:5 Feet) 1. Barbarea verna / Wintercress, Early winter cress 2. Potentilla norvegica / Norwegian cinquefoil, Norwegian or root 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. Woody Vine Stratum (Plot size:30 Feet)	0 5 5 	= Total Cov Yes Yes 	er NI FAC	Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index ≤3.01 4 - Morphological Adaptations1 (Provide supporting Problematic Hydrophytic Vegetation1 (Explain) 1Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Definitions of Vegetation Strata Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of
1. 2. 3. 4.				size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height.
Remarks: (Explain alternative procedures here or in a separate	 report.)	_ = Total Cov	er	Hydrophytic Vegetation Present? Yes <u>No X</u>

0	0		
3	υ	I	L

Profile Desc	ription: (Describe to th Matrix	e depth nee	ded to document th Redox	e indicator	or confirm	the abser	nce of indicators	5.)		
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture		Remarks	
0-18	7.5YR 5/2	100					Sity Clay Loam			
				·			<u> </u>			
								-		
								-		
								-		
	. <u></u> .									
	. <u></u> .									
¹ Type: C=Cor	ncentration, D=Depletior	, RM=Reduc	ed Matrix, MS=Mask	ed Sand Gra	ains.		² Loca	tion: PL=Pc	ore Lining, M=Ma	trix.
Hydric Soil I	ndicators:						Indicators	for Proble	matic Hydric Sc	oils³:
Histosol	(A1)		Polyvalue Below	Surface (S8	3) (LRR R,I	MLRA 149	9B) 2 cm l	Muck (A10)	(LRR K, L, MLF	RA 149B)
Histic Ep	pipedon (A2)	_	Thin Dark Surfac	ce (S9) (LR	R R, MLRA	149B)	Coast	Prairie Red	dox (A16) (LRR	K, L, R)
Black Hi	stic (A3)	-	Loamy Mucky M	ineral (F1)	(LRR K, L)		5 cm	Mucky Peat	t or Peat (S3) (L	RR K, L, R)
Hydroge	n Sulfide (A4)	-	Loamy Gleyed N	latrix (F2)			Dark	Surface (S7	') (LRR K, L)	
Stratified	l Layers (A5)	-	Depleted Matrix	(F3)			Polyva	alue Below	Surface (S8) (L	RR K, L)
Depleted	d Below Dark Surface (A	.11)	Redox Dark Surf	face (F6)			Thin D	Dark Surfac	e (S9) (LRR K,	L)
Thick Da	ark Surface (A12)	-	Depleted Dark S	urface (F7)			Iron-M	langanese	Masses (F12) (LRR K, L, R)
Sandy M	lucky Mineral (S1)	-	Redox Depression	ons (F8)			Piedm	nont Floodp	lain Soils (F19) (MLRA 149B)
Sandy G	Bleyed Matrix (S4)	-					Mesic	Spodic (TA	(MLRA 144	A, 145, 149B)
Sandy R	edox (S5)						Red F	Parent Mate	rial (F21)	
Stripped	Matrix (S6)						Very S	Shallow Dar	rk Surface (TF12)
Dark Su	rface (S7) (LRR R, ML	RA 149B)					Other	(Explain in	Remarks)	
³ Indicators of	hydrophytic vegetation	and wetland I	avdrology must be pr	esent unles	e disturbed	or probler				
Destrictive I										
Type.	ayer (II Observed):									
Depth (in	ches).						Hydric Soil P	rosont?	Ves	No X
Deptil (ill								esenti	103	
Remarks:										

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Proiect/Site:	16153 Heritage Wind	Citv/County:	Town of Barre. Or	rleans County	Sampling Date: 04/18/2022
Applicant/Owner:	Heritag	e Wind, LLC	S	State: New York	Sampling Point: 66W01-01W
Investigator(s):	JB BA	Section, Tow	nship, Range:	To	wn of Barre
Landform (hillslope, terrace, e	tc): Flat	Local relief (concave	convex, none):	concave	Slope (%): 0-5
Subregion (LRR or MLRA):	LRR L	Lat: 43.20	9865 Long:	-78.1198483	33 Datum: WGS 1984
Soil Map Unit Name:	Kendaia and Appleton soils,	0 to 3 percent slopes, bedr	ock substratum	NWI classification	pr: PFO1B
Are climatic / hydrologic condi	tions on the site typical for this t	ime of year? Yes X	No (If no	o, explain in Remark	s.)
Are Vegetation, Soi	I, or Hydrology	significantly disturbed?	Are "Normal C	ircumstances" prese	nt? Yes X No
Are Vegetation, Soi	I, or Hydrology	naturally problematic?	(If needed, exp	olain any answers in	Remarks.)
SUMMARY OF FINDING	GS - Attach site map sh	owing sampling poin	t locations, transe	cts, important	features, etc.
Hydrophytic Vegetation Pres	sent? Yes X	No Is	the Sampled Area		
Hydric Soil Present?	Yes X	Now	ithin a Wetland?	Yes X	No
Wetland Hydrology Present	? Yes X	No If	yes, optional Wetland S	ite ID:	66W01
Domarka: (Evalain altarnati		rate report)			
PEM sample p	point.	rate report.)			
Wetland occur	s adjacent to agriculture field ar	d was farmed at one point,	but has been left to fallo	w for at least one ye	ar.
HYDROLOGY					
Wetland Hydrology Indica	tors:				
Primary Indicators (minimur	n of one required; check all that	apply)		Secondary Indica	ators (minimum of two required)
X Surface Water (A1)		Water-Stained Leaves (B9)		Surface Soil	Cracks (B6)
X High Water Table (A2)	_	Aquatic Fauna (B13)		Drainage Pa	atterns (B10)
X Saturation (A3)		Marl Deposits (B15)		Moss Trim L	.ines (B16)
Water Marks (B1)	<u> </u>	Hydrogen Sulfide Odor (C1)	Dry-Season	Water Table (C2)
Sediment Deposits (B2	<u>·</u>)	Oxidized Rhizospheres on	Living Roots (C3)	Crayfish Bu	rrows (C8)
Drift Deposits (B3)	—	Presence of Reduced Iron	(C4)	Saturation V	'isible on Aerial Imagery (C9)
Algal Mat or Crust (B4))	Recent Iron Reduction in T	lled Soils (C6)	Stunted or S	Stressed Plants (D1)
X Iron Deposits (B5)		Thin Muck Surface (C7)		Geomorphic	Position (D2)
Inundation Visible on A	verial Imagery (B7)	Other (Explain in Remarks)		Shallow Aqu	litard (D3)
Sparsely vegetated Co	incave Surface (B8)			Microtopogr	
				X FAC-Neutra	Tiest (D5)
Field Observations:					
Surface Water Present?	Yes X No	Depth (inches): 2			
Water Table Present?	Yes X No	Depth (inches): 9			
Saturation Present?	Yes <u>X</u> No	Depth (inches): 7	Wetland Hy	drology Present?	Yes X No
(includes capillary fringe)					
Describe Descrided Data (at	troom gougo, monitoring well, o	arial abataa araviaya inana	ationa) if available:		
Describe Recorded Data (si	iean gauge, monitoring weil, a	enai priotos, previous inspe	cuons), il avaliable.		
Remarks:					
Surface water	observed in depressions				

VEGETATION - Use scientific names of plants.

Sampling Point: 66W01-01W

Tree Stratum (Plot size:	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: 1 Total Number of Dominant Species Across All Strata: 1 Percent of Dominant Species
4 5		<u> </u>	- <u> </u>	That Are OBL, FACW, or FAC: 100.0 (A/B)
6	0	= Total Cov	er	Prevalence Index worksheet:Total % Cover of:Multiply by:OBL species10 $x 1 = 10$ FACW species90 $x 2 = 180$ FAC species0 $x 3 = 0$ FACU species0 $x 4 = 0$ UPL species0 $x 5 = 0$ Column Totals:100(A)100(B)
5 6				Prevalence Index = B/A =1.9
Herb Stratum (Plot size: 5 Feet) 1. Phalaris arundinacea / Reed canarygrass, Reed canary gras 2. Juncus effusus / Common bog rush, Soft or lamp rush 3. 4. 5. 6. 7. 8.	0 90 10	= Total Cove	FACW OBL	Hydrophytic Vegetation Indicators: X 1 - Rapid Test for Hydrophytic Vegetation X 2 - Dominance Test is >50% X 3 - Prevalence Index ≤3.01 4 - Morphological Adaptations1 (Provide supporting Problematic Hydrophytic Vegetation1 (Explain) 1Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
9 10 11				Definitions of Vegetation Strata Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
Woody Vine Stratum (Plot size:	100	= Total Cov	er 	 Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height.
	0	= Total Cov	er	Hydrophytic Vegetation Present? Yes X No
Remarks: (Explain alternative procedures here or in a separate	report.)			
0	0			
---	---	---	---	
3	υ	I	L	

Depth	Matrix		Redox	Features				
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-18	10YR 3/2	95	5YR 4/4	5	C	M,PL	Clay Loam	
Type: C=Cor	centration, D=Depletion	n, RM=Red	uced Matrix, MS=Masl	ed Sand Gr	ains.		² Location:	PL=Pore Lining, M=Matrix.
Hydric Soil II Histosol Histic Ep Black His Hydroge Stratified Depletec Thick Da Sandy M Sandy G Sandy R Stripped Dark Sur	ndicators: (A1) pipedon (A2) stic (A3) n Sulfide (A4) I Layers (A5) d Below Dark Surface (A ark Surface (A12) lucky Mineral (S1) plucky Mineral (S1) plucky Mineral (S4) edox (S5) Matrix (S6) face (S7) (LRR R, ML hydrophytic vegetation	(11) RA 149B) and wetland	 Polyvalue Belov Thin Dark Surfa Loamy Mucky M Loamy Gleyed N Depleted Matrix X Redox Dark Sur Depleted Dark S Redox Depressi 	/ Surface (S ce (S9) (LR lineral (F1) /latrix (F2) (F3) face (F6) Surface (F6) Surface (F7) ons (F8)	8) (LRR R R R, MLR/ (LRR K, L)	,MLRA 149 A 149B) d or probler	Indicators for I DB) 2 cm Muck Coast Prai 5 cm Muck Dark Surfa Polyvalue I Thin Dark 3 Polyvalue I Thin Dark 3 Polyvalue I Thin Dark 3 Polyvalue I Nesic Spo Red Paren Very Shallo Other (Exp mattic.	Problematic Hydric Soils ³ : (A10) (LRR K, L, MLRA 149B) rie Redox (A16) (LRR K, L, R) (y Peat or Peat (S3) (LRR K, L, R) rice (S7) (LRR K, L) Below Surface (S8) (LRR K, L) Surface (S9) (LRR K, L) anese Masses (F12) (LRR K, L, R) Floodplain Soils (F19) (MLRA 149B) dic (TA6) (MLRA 144A, 145, 149B) dit Material (F21) bw Dark Surface (TF12) blain in Remarks)
Restrictive L Type: Depth (ind	ayer (if observed):						Hydric Soil Preser	nt? Yes <u>X</u> No
≀emarks:								

Applicativover i Hettage Wird, LLC in Provenitio, Range: State: New York, Station, Parket (1999) (1994) (19	Project/Site:	16153 Heritage Wind	City/County:	Town of Barre, Or	leans County	Sampling Date: 04/18/2022
Investigator(s) Ide B Section Township, Range: Town of Bare Lardord Mildiograma, chross transe, ics. Lawland Local Veloc (conces, convex, none) Concerner Destination (Concerner, convex, none) Starbagier URR or MLRA: LaR L Lat # 43.2093833 Uring	Applicant/Owner:	Heritage Wir	engreesingr	Si	tate: New York	Sampling Point: 66W02-01W
Landtern (ullistops terrace etc): Lowland Local relief (concave; convex, none)	Investigator(s):	JB BA	Section Towns	hip Range	Tc	wn of Barre
Subseque (LRR or Null RAy LRR to Lar 43.208/833 Long -78.12781477 Datum WGS 1984 Solid Map Uin Nume: Kendala and Appleton rolls. Di 3 percent stopes, bedrock substratum NWH classification: PFO1 we chmate / Hydrodig: conditions on the site Hydroid fit this time of year? Yes X No (finedade, tapla in Remarks.) Net Vegetation	Landform (hillslope terrace etc)		Local relief (concave, co	nip, range.	concave	Slope (%): 0-5
Soil Map Lini Name: Kendiaia and Appleton soils, 0 to 3 percent slopes, bedroct substratum IVMI classification: IVMI classification: </td <td>Subregion (LRR or MLRA):</td> <td></td> <td>Lat: 43 20987</td> <td>333 Long</td> <td>-78 127541</td> <td>67 Datum: WGS 1984</td>	Subregion (LRR or MLRA):		Lat: 43 20987	333 Long	-78 127541	67 Datum: WGS 1984
Are climatic /hydrologic conditions on the site typical for this time of year? Yea X No	Soil Man Unit Name:	Kendaia and Appleton soils 0 to ?	nercent slopes bedroc	<u>c substratum</u>	NWI classificati	on: PEO1
Are Vegetation	Are climatic / hydrologic condition	ns on the site typical for this time of	f_{vear} Ves X	No (lf no		
And Vigbools	Are Vegetation X Soil	or Hydrology sig	nificantly disturbed?	Are "Normal Ci	rcumstances" nres	ent? Ves X No
Note: Control of the second	Are Vegetation Soil	, or Hydrologysig	turally problematic?	(If needed, evol	lain any answers in	Remarks)
Commentation Present? Yes X No Is the Sampled Area within a Wetland? Yes X No If yes, optional Wetland Site ID; PEM data point for 66W02 Remarks: (Splin alternative procedures here on in a separate report.) Wetland Hydrology Indicators: Present? Yes X No If yes, optional Wetland Site ID; PEM data point for 66W02 Wetland Hydrology Indicators: Primary Indicators (Initimum of one required; check all that apply) Secondary Indicators (Initimum of No required) Surface Water (A1) Water-Stained Leaves (B0) Surface Sol Cracks (B6) X Saturation (A3) Mait Deposits (B15) Mos Tim Lines (B16) Water Marks (B1) Water-Stained Leaves (B0) Crarks (B10) Saturation Visible on Aerial Imagery (C2) Saturation (A3) Mait Deposits (B15) Oxidized Wistree (C1) Saturation Visible on Aerial Imagery (C2) Saturation State (S1) Thin Muck Surface (C1) Saturation Visible on Aerial Imagery (C2) Aga Mait on Clucal (S14) Recent tion Reduction in Tilled Soils (S16) Saturation Present? Into Deposits (B3) Thin Muck Surface (C1) Geomorphic Patient (D1) Geomorphic Patient (D1) Into Adaptis (B5)		, of Hydrologyiai			ete important	foaturos ato
Hydrophylic Veglation Present? Yes X No	SOMMART OF FINDINGS	- Attach site map showin	g samping point i		cis, important	leatures, etc.
Hydic Sol Present? Yes X No within a Worland? Yes X No Remarks: (Explain alternative procedures here or in a separate report.) Yes X No PEM data point for 66W02 Hydica drydrology Indicators: Presson Secondary Indicators (minimum of one required: check all that apply) Secondary Indicators (minimum of two required) Surface Water (A1) Water Stained Leaves (B3) Surface Sol Cracks (B6) X Saturation (A2) Aquatic Fauna (B13) Drinage Patterns (B10) Saturation (A3) Hydrogen Sufface Odor (C1) Dry Season Water Table (C2) Crayfish Burrows (C3) Set Water (A1) Hydrogen Sufface Odor (C1) Dry Season Water Table (C2) Crayfish Burrows (C3) Saturation Visible on Aerial Imagery (C3) Presence of Reduced Iron (C4) Saturation Visible on Aerial Imagery (C3) Mater Marks (B1) Hydrogen Sufface Odor (C1) Dry Season Water Table (C2) Geomorphic Position (D2) Inon Deposits (B3) Presence of Reduced Iron (C4) Saturation Visible on Aerial Imagery (C3) Saturation Visible on Aerial Imagery (B7) Other (Explain In Remarks) Geomorphic Position (D2) Inon Deposits (B3) Thin Muck Surface (C3) Saturation Present? <t< td=""><td>Hydrophytic Vegetation Preser</td><td>1t? Yes <u>X</u> No</td><td>Is th</td><td>e Sampled Area</td><td></td><td></td></t<>	Hydrophytic Vegetation Preser	1t? Yes <u>X</u> No	Is th	e Sampled Area		
Wetland Hydrology Present? Yes X No If yes, optional Wetland Site ID: PEM data point for 66W02 Remarks: (Explain alternative procedures here or in a separate report.) Vegetation maintained during farming practices Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (minimum of two required)	Hydric Soil Present?	Yes X No	with	in a Wetland?	Yes X	No
Remarks: (Explain alternative procedures here or in a separate report.) Vegetation maintained during farming practices HVDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply.) Secondary Indicators (minimum of two required). Sturface Water (A1) Aquatic Fauna (B13) Drainage Patterns (B10) X Sturface Water (A1) Mart Deposits (B15) Moss Trim Lines (B16) X Saturation (A3) Mart Deposits (B15) Moss Trim Lines (B16) Drift Deposits (B1) X Oxidized Rhizospheres on Living Roots (C3) Crayfish Burrows (C8) Joint Poposits (B3) Presence of Reduced inon (C4) Saturation Visible on Aerial Imagery (C9) Iron Deposits (B5) Ton Reposits (B5) Suthat Value Surface (C1) Geomorphic Positin (C2) Iron Deposits (B5) Tion Network Surface (C1) Geomorphic Positin (C2) Shallow Aquilard (C3) Iron Deposits (B5) Tion Reposits (B5) Most Check Surface (B8) Shallow Aquilard (C3) Surface Water Fresent? Yes X No Depth (inches): 3 Saturation Present? Yes X No Depth (inches): 10 Wetrand Hydrology Present?	Wetland Hydrology Present?	Yes X No	If ye	s, optional Wetland Sit	te ID: PE	M data point for 66W02
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (minimum of two required) Surface Water (A1)	Remarks: (Explain alternative Vegetation maint	procedures here or in a separate re ained during farming practices	əport.)			
Wetland Hydrology Indicators: Secondary Indicators (minimum of one required; check all that apply) Secondary Indicators (minimum of two required) Surface Water (A1) Water-Stained Leaves (B9) Surface Soil Cracks (B6) X High Water Table (A2) Aquatic Fauna (B13) Drainage Patterns (B10) X Baturation (A3) Mari Deposits (B15) Drainage Patterns (B10) Sediment Deposits (B2) X Oxidized Rhizospheres on Living Roots (C3) Cravifia Burrows (C8) Drift Deposits (B3) Presence of Reduced iron (C4) Saturation Visible on Aerial Imagery (C9) Algal Mar Crus (B4) Recent Iron Reduction in Tilled Soils (C6) Sturtee Suited on Stressed Plants (D1) Iron Deposits (B3) Thin Muck Surface (C7) Geomorphic Position (D2) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Shallow Aquitard (D3) Sparsely Vegetated Concave Surface (B8) Microtopographic Relief (D4) X Sufface Water Present? Yes X No Depth (inches): 12 Saturation Present? Yes X No Depth (inches): 10 Wetland Hydrology Present? Yes X No Borain actin Present? Yes X<	HYDROLOGY					
Primary Indicators (intinuum of one required; check all that apply) Secondary Indicators (intinuum of two required) Surface Water (A1) Water-Stained Leaves (B9) Surface Soil Cracks (B6) X High Water Table (A2) Aquatic Fauna (B13) Drainage Patterns (B10) Water Marks (B1) Hydrogen Sulfide Odor (C1) Dorsinage Patterns (B10) Crayfish Burrows (C8) Sediment Deposits (B2) X Oxidized Rhizosheres on Living Roots (C3) Crayfish Burrows (C8) Agal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Stauration Visible on Aerial Imagery (C9) Iron Deposits (B3) Thin Muck Surface (C7) Geomorphic Position (D2) Stallated Concave Surface (B8) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Stallow Aquitard (D3) Surface Water Present? Yes No Depth (inches): 3 Surface Water Present? Yes No Depth (inches): 12 Water Table Present? Yes No Depth (inches): 12 Include scapillary firinge) Depth (inches): 10 Wetland Hydrology Present? Yes No	Wetland Hydrology Indicator	rs:				
Surface Water (A1) Water-Stained Leaves (B9) Surface Soil Cracks (B6) X High Water Table (A2) Aquatic Fauna (B13) Drainage Patterns (B10) X Saturation (A3) Hard Deposits (B15) Moss Tim Lines (B16) Water Marks (B1) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2) Sediment Deposits (B2) X Oxidized Rhizospheres on Living Roots (C3) Carsfish Burrows (C8) Dritt Deposits (B3) Resence of Reduced from (C4) Saturation Visible on Aerial Imagery (C9) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) Iron Deposits (B5) Thin Muck Surface (C7) Geomorphic Position (D2) Invindation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Shallow Adjuitard (D3) Systration Present? Yes X No Depth (inches): 12 Surface Rule Present? Yes X No Depth (inches): 12 Saturation Present? Yes X No Depth (inches): 10 Weter Table Present? Yes X No Depth (inches): 10 Under Gable Present? Yes X No Depth (inches): 10 Describe Recorded Data (stream gauge, monitori	Primary Indicators (minimum c	of one required: check all that apply	()		Secondary Indic	ators (minimum of two required)
X High Water Table (A2) Aquatic Fauna (B13) Drainage Patterns (B10) X Saturation (A3) Marl Deposits (B15) Moss Trim Lines (B16) Weter Marks (B1) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2) Sediment Deposits (B2) X Oxidized Rhizospheres on Living Roots (C3) Crayfish Burrows (C8) Drift Deposits (B3) Presence of Reduced iron (C4) Saturation Visible on Aerial Imagery (C9) Adgal Mat or Crust (B4) Recent Iron Reduction in Tilled Solis (C6) Stunted or Stressed Plants (D1) Iron Deposits (B5) Thin Muck Surface (C7) Geomorphic Position (D2) Iron addition Visible on Aerial Imagery (B7) Other (Explain in Remarks) Shallow Aquitard (D3) Sparsely Vegetated Concave Surface (B8) X No Depth (inches): 12 Sufface Water Present? Yes X No Depth (inches): 12 Saturation Present? Yes X No Depth (inches): 10 Wetland Hydrology Present? Yes X No Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: Remarks:	Surface Water (A1)	Wate	-Stained Leaves (B9)		Surface So	il Cracks (B6)
X Saturation (A3) Mari Deposits (B15) Moss Trim Lines (B16) Weter Marks (B1) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2) Sediment Deposits (B2) X Oxidized RRizospheres on Living Roots (C3) Cravipite Burrows (C8) Drift Deposits (B3) Presence of Reduced Iron (C4) Saturation Visible on Aerial Imagery (C9) Saturation Visible on Aerial Imagery (C9) Inundation Visible on Aerial Imagery (B7) Thin Muck Surface (C7) Geomorphic Positin (D2) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Shallow Aquitard (D3) Sparsely Vegetated Concave Surface (B8) Microtopographic Relief (D4) FAC-Neutral Test (D5) Field Observations: Surface Water Present? Yes No Saturation Present? Yes No Depth (inches): 12 Water Table Present? Yes No Depth (inches): 12 Saturation Present? Yes No Depth (inches): 12 Obscribe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:	X High Water Table (A2)	Aqua	tic Fauna (B13)		Drainage P	atterns (B10)
Water Marks (B1) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2) Sediment Deposits (B2) X Oxidized Rhizospheres on Living Roots (C3) Craffish Burrows (C8) Drift Deposits (B3) Presence of Reduced Iron (C4) Saturation Visible on Aerial Imagery (C9) Algal Mat or Crust (B4) Recent Iron Reduced Iron (C4) Saturation Visible on Aerial Imagery (C9) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Shallow Aquitard (D3) Sparsely Vegetated Concave Surface (B8) Thin Muck Surface (C7) Geomorphic Position (D2) Field Observations: Surface Water Present? Yes X No Surface Water Present? Yes X No Depth (inches): 3 Water Table Present? Yes X No Depth (inches): 10 Wetland Hydrology Present? Yes X No Depth (inches): 10 Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: Remarks:	X Saturation (A3)	 Marl I	Deposits (B15)		Moss Trim I	Lines (B16)
Sediment Deposits (B2) X Oxidized Rhizospheres on Living Roots (C3) Crayfish Burrows (C8) Drift Deposits (B3) Presence of Reduced Iron (C4) Saturation Visible on Aerial Imagery (C9) Adgai Mat or Crust (B4) Recent Iron Reduction in Tilled Solis (C6) Saturation Visible on Aerial Imagery (C9) Iron Deposits (B5) Thin Muck Surface (C7) Geomorphic Position (D2) Irundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Shallow Aquitard (D3) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Shallow Aquitard (D3) Water Present? Yes X No Depth (inches): 3 Saturation Present? Yes X No Depth (inches): 10 Vestard Table Present? Yes X No Depth (inches): 10 Clocked Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: Remarks:	Water Marks (B1)	 Hydro	ogen Sulfide Odor (C1)		Dry-Seasor	1 Water Table (C2)
Drift Deposits (B3) Presence of Reduced Iron (C4) Saturation Visible on Aerial Imagery (C9) Algal Mat or Crust (B4) Recent fron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) Iron Deposits (B5) Thin Muck Surface (C7) Geomorphic Position (D2) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Shallow Aquitard (D3) Sparsely Vegetated Concave Surface (B8) Microtopographic Relief (D4) K FAC-Neutral Test (D5) Field Observations: Surface Water Present? Yes X No Depth (inches): 12 Saturation Present? Yes X No Depth (inches): 12 No	Sediment Deposits (B2)	X Oxidi:	zed Rhizospheres on Liv	ing Roots (C3)	Crayfish Bu	irrows (C8)
Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) Iron Deposits (B5) Thin Muck Surface (C7) Geomorphic Position (D2) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Shallow Aquitard (D3) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Microtopographic Relief (D4) X No Depth (inches): 12 Saturation Present? Yes X No Include capillary fringe) Depth (inches): 10 Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:	Drift Deposits (B3)	Prese	ence of Reduced Iron (C	4)	Saturation \	Visible on Aerial Imagery (C9)
Iron Deposits (B5) Thin Muck Surface (C7) Geomorphic Position (D2) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Shallow Aquitard (D3) Sparsely Vegetated Concave Surface (B8) Microtopographic Relief (D4) X Field Observations: Surface Water Present? Yes X No Surface Water Present? Yes X No Depth (inches): 12 Saturation Present? Yes X No Depth (inches): 10 Wetland Hydrology Present? Yes X No Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: Remarks:	Algal Mat or Crust (B4)	Rece	nt Iron Reduction in Tille	d Soils (C6)	Stunted or \$	Stressed Plants (D1)
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Shallow Aquitard (D3) Sparsely Vegetated Concave Surface (B8) Microtopographic Relief (D4) Field Observations: Depth (inches): 3 Surface Water Present? Yes X No Depth (inches): 12 Microtopographic Relief (D4) X Saturation Present? Yes X No Depth (inches): 12 Gaturation Present? Yes X No Depth (inches): 10 Wetland Hydrology Present? Yes X No Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: Remarks:	Iron Deposits (B5)	 Thin I	Muck Surface (C7)		Geomorphi	c Position (D2)
Sparsely Vegetated Concave Surface (B8)	Inundation Visible on Aer	ial Imagery (B7) Other	(Explain in Remarks)		Shallow Aq	uitard (D3)
Field Observations: Surface Water Present? Yes X No Depth (inches): 3 Water Table Present? Yes X No Depth (inches): 12 Saturation Present? Yes X No Depth (inches): 10 Wetland Hydrology Present? Yes X No	Sparsely Vegetated Conc	ave Surface (B8)			Microtopog	raphic Relief (D4)
Field Observations: Surface Water Present? Yes X No Depth (inches): 3 Water Table Present? Yes X No Depth (inches): 12 Saturation Present? Yes X No Depth (inches): 10 Vincludes capillary fringe) Vestand Hydrology Present? Yes X No					X FAC-Neutra	al Test (D5)
Surface Water Present? Yes X No Depth (inches): 3 Water Table Present? Yes X No Depth (inches): 12 Saturation Present? Yes X No Depth (inches): 10 Wetand Hydrology Present? Yes X No Depth (inches): 10 Cincludes capillary fringe) Wetand Hydrology Present? Yes X No	Field Observations:					
Water Table Present? Yes X No Depth (inches): 12 Saturation Present? Yes X No Depth (inches): 10 Wetland Hydrology Present? Yes X No	Surface Water Present?	Ves X No Der	th (inches): 3			
Water fable Present? Yes X No Depth (inclues): 10 Wetland Hydrology Present? Yes X No	Sufface Water Present?		(11)(11)(11)(11)(11)(11)(11)(11)(11)(11	—		
Saturation Present? res No Depth (incluses). Io (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:	Valer Table Present?	Yes X No Dep	th (inches): 12	Wotland Uv	drology Drocont?	Vec X Ne
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	(includes canillant frings)	res <u>x</u> No Dep	th (inches): 10	wetland Hyd	arology Present?	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:	(includes capillary ininge)					
Remarks:	Describe Recorded Data (strea	am gauge, monitoring well, aerial p	hotos, previous inspecti	ons), if available:		
Remarks:			····, p · · · · · · · · · ·	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
Remarks:						
	Remarks:					

Sampling Point: 66W02-01W

Tree Stratum (Plot size:	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: 1 Total Number of Dominant Species Across All Strata: 1 (B)
2. 3. 4. 5.	·			Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0 (A/B)
6. 7. Sapling/Shrub Stratum (Plot size: 15 Feet) 1. 2. 3. 4.	0	= Total Cov	er	Prevalence Index worksheet: $_$ Total % Cover of:Multiply by:OBL species0x 1 =FACW species90x 2 =TACW species0x 3 =FAC species0x 4 =UPL species0x 5 =Column Totals:90(A)180(B)
5 6 7.				Prevalence Index = B/A =2.0
Herb Stratum (Plot size: 5 Feet) 1. Phalaris arundinacea / Reed canarygrass, Reed canary gras 2. 3. 4.	0 90	_ = Total Cov Yes 	er FACW	Hydrophytic Vegetation Indicators: X 1 - Rapid Test for Hydrophytic Vegetation X 2 - Dominance Test is >50% X 3 - Prevalence Index ≤3.01 4 - Morphological Adaptations1 (Provide supporting Problematic Hydrophytic Vegetation1 (Explain)
5 6 7 8				¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
9 10 11				Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
12. Woody Vine Stratum (Plot size:	90	= Total Cov	er	 Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
2 3 4	·			Woody vines - All woody vines greater than 3.28 ft in height.
	0	_ = Total Cov	er	Hydrophytic Vegetation Present? Yes X No
Remarks: (Explain alternative procedures here or in a separate	report.)			

0	0		
3	υ	I	L

(inches) Color (moist) % 0-18 10YR 4/2 96 96 96 97 96 98 96 99 96 99 96 99 96 99 96 90 96 90 96	Color (moist) 10YR 6/4 10YR 6/4 Additional and the second seco	% 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 5 5 6 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 7 6 7 6 8 6 9 6 9 6 10 6 10 7 10 7 10 7 <th> ains. 8) (LRR R R R, MLR/ (LRR K, L)</th> <th> PL,M ,MLRA 145 A 149B)</th> <th>Texture Remarks Clay Loam </th>	 ains. 8) (LRR R R R, MLR/ (LRR K, L)	 PL,M ,MLRA 145 A 149B)	Texture Remarks Clay Loam
0-18 10YR 4/2 96 96 96 97 96 98 96 97 96 97	10YR 6/4	4 	 ains. 8) (LRR R R R, MLR/ (LRR K, L)		Clay Loam Clay
Type: C=Concentration, D=Depletion, RM=Reduced Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6)	d Matrix, MS=Mask Polyvalue Below Thin Dark Surfac Loamy Mucky Mi Loamy Gleyed M Depleted Matrix (Redox Dark Surf Depleted Dark Surf	ed Sand Gra surface (Sł ce (S9) (LR ineral (F1) (fatrix (F2) (F3) face (F6)	ains. (LRR R R R, MLR/	,MLRA 149	************************************
Type: C=Concentration, D=Depletion, RM=Reduced Iydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6)	d Matrix, MS=Mask Polyvalue Below Thin Dark Surfac Loamy Mucky Mi Loamy Gleyed M Depleted Matrix Redox Dark Surf Depleted Dark S	ed Sand Gra Surface (S8 ineral (F1) (fatrix (F2) (F3) face (F6)	ains. 8) (LRR R R R, MLR/ (LRR K, L)	,MLRA 149 A 149B)	² Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils ³ : 49B) 2 cm Muck (A10) (LRR K, L, MLRA 14 Coast Prairie Redox (A16) (LRR K, L, 5 cm Mucky Peat or Peat (S3) (LRR K, Dark Surface (S7) (LRR K, L) Polyvalue Below Surface (S8) (LRR K,
Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6)	Polyvalue Below Thin Dark Surfac Loamy Mucky Mi Loamy Gleyed M Depleted Matrix Redox Dark Surf Depleted Dark S	surface (Sł ce (S9) (LR ineral (F1) (latrix (F2) (F3) face (F6) urface (F7)	8) (LRR R R R, MLR/ (LRR K, L)	,MLRA 149 A 149B)	Indicators for Problematic Hydric Soils ³ : 49B) 2 cm Muck (A10) (LRR K, L, MLRA 14 Coast Prairie Redox (A16) (LRR K, L, 5 cm Mucky Peat or Peat (S3) (LRR K, Dark Surface (S7) (LRR K, L) Polyvalue Below Surface (S8) (LRR K,
Dark Surface (S7) (LRR R, MLRA 149B)	_ Redox Depressio	esent, unles	ss disturbed	d or probler	 Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) (LRR I Piedmont Floodplain Soils (F19) (MLRA Mesic Spodic (TA6) (MLRA 144A, 145 Red Parent Material (F21) Very Shallow Dark Surface (TF12) Other (Explain in Remarks)
Restrictive Layer (if observed): Type: Depth (inches):	_				Hydric Soil Present? Yes X No
Remarks:					

Project/Site:	16153 H	eritage Wind	C	ity/County: To	own of Barre, Or	leans County	Sampling Date:	04/18/2022
Applicant/Owner:		Herit	age Wind, LLC	· · · ·	S	tate: New York	Sampling Point:	66W02/03-01U
Investigator(s):		JB BA	S	ection, Township, R	ange:	Tc	wn of Barre	
Landform (hillslope, terr	ace, etc):	Lowland	Local relie	f (concave, convex	, none):	convex	Slop	e (%): 0-5
Subregion (LRR or MLR	₹A):	LRR L	Lat:	43.20993667	Long:	-78.127141	67 Datu	Im: WGS 1984
Soil Map Unit Name:		Hilton loam, 0 to 3	percent slopes, b	edrock substratum		NWI classificati	on:	N/A
Are climatic / hydrologic	conditions on the	site typical for this	s time of year? Y	es X No	o (lf no	, explain in Remarl	(S.)	
Are Vegetation X	, Soil , e	or Hydrology	significantly c	listurbed?	Are "Normal Ci	rcumstances" prese	ent? Yes	X No
Are Vegetation	, Soil ,	or Hydrology	naturally prot	ematic?	(If needed, exp	lain any answers in	Remarks.)	
SUMMARY OF FIN	DINGS - Attac	ch site map s	howing samp	ling point locat	ions, transe	cts, important	features, etc.	
Hydrophytic Vegetatic	on Present?	Vec	No X	le the Sau	nnlod Aroa			
Hydric Soil Present?	JITPICSCILLS	Ves		within a k	Notland2	Ves	No X	
Wetland Hydrology Pi	resent?	Yes		lf ves ont	ional Wetland Si			
		103		ii yes, opt				
Remarks: (Explain alt Active a	ernative procedure griculture field, Har	es here or in a sep rvested Vegetatio	oarate report.) n.					
HYDROLOGY								
Wetland Hydrology	Indicators:							
Primary Indicators (m	inimum of one rea	uired; check all th	at apply)			Secondarv Indic	ators (minimum of	two required)
Surface Water (A	 A1)	,	Water-Stained L	eaves (B9)		Surface So	I Cracks (B6)	· /
High Water Table	e (A2)		- Aquatic Fauna (B13)		Drainage P	atterns (B10)	
Saturation (A3)			Marl Deposits (E	315)		Moss Trim	Lines (B16)	
Water Marks (B1	1)		Hydrogen Sulfid	e Odor (C1)		Dry-Seasor	Water Table (C2))
Sediment Depos	sits (B2)		Oxidized Rhizos	pheres on Living R	oots (C3)	Crayfish Bu	rrows (C8)	
Drift Deposits (B	3)		Presence of Re	duced Iron (C4)		Saturation	/isible on Aerial In	nagery (C9)
Algal Mat or Cru	st (B4)		Recent Iron Rec	luction in Tilled Soil	s (C6)	Stunted or	Stressed Plants (E	01)
Iron Deposits (B	5)		Thin Muck Surfa	ace (C7)		Geomorphi	c Position (D2)	
Inundation Visibl	le on Aerial Imager	ту (В7)	Other (Explain in	n Remarks)		Shallow Aq	uitard (D3)	
Sparsely Vegeta	ted Concave Surfa	ace (B8)				Microtopog	raphic Relief (D4)	
						FAC-Neutra	al Test (D5)	
Field Observations:								
Surface Water Preser	nt? Yes	No X	Depth (inches)	·				
Water Table Present?	Yes		Depth (inches)	··				
Saturation Present?	Yes		Depth (inches)		Wetland Hy	drology Present?	Yes	No X
(includes capillary frin	100 <u>-</u>							
(.907							
Describe Recorded D	ata (stream gauge	, monitoring well,	aerial photos, pre-	vious inspections), i	f available:			
Remarks:								
Remarks:								
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Remarks:								
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Remarks:								
Remarks:								
Remarks:								
Remarks:								
Remarks:								
Remarks:								
Remarks:								

Sampling Point: 66W02/03-01U

				Dominance Test worksheet:
				Number of Dominant Species
	Absolute	Dominant	Indicator	That Are OBL, FACW, or FAC:1 (A)
Tree Stratum (Plot size: 30 Feet)	% Cover	Species?	Status	
1.				Total Number of Dominant
2			·	Species Across All Strata: 4 (B)
3				
3				Percent of Dominant Species
4				That Are OBL, FACW, or FAC: 25.0 (A/B)
5				
б				Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
	0	= Total Cov	er	OBL species 0 x 1 = 0
Sapling/Shrub Stratum (Plot size: 15 Feet)				FACW species $0 \times 2 = 0$
1				FAC species $5 \times 3 = 15$
2				FACU species $10 \times 4 = 40$
3				UPL species $5 \times 5 = 25$
4.				$\frac{1}{20} = \frac{1}{20} $
5.				
6.				Drevelance Index = D/A =4.0
7				Prevalence index = $B/A = 4.0$
··	0	= Total Cov	or	Hydronbytic Vegetation Indicators:
Horb Stratum (Plot size: 5 East)		10tal 000		1 Panid Test for Hydrophytic Vegetation
1. Derberge verme (Mintererese Forkvuinter erese	-	Vaa	NII	
1. Barbarea verna / Wintercress, Eany winter cress	5	res		
2. Plantago major / Common plantain	5	Yes	FACU	3 - Prevalence Index ≤3.0 ¹
3. <i>Trifolium repens /</i> White clover	5	Yes	FACU	4 - Morphological Adaptations' (Provide supporting
4. Potentilla norvegica / Norwegian cinquefoil, Norwegian or rol	5	Yes	FAC	Problematic Hydrophytic Vegetation ¹ (Explain)
5				
6				¹ Indicators of hydric soil and wetland hydrology must
7				be present, unless disturbed or problematic.
8.				
9.				Definitions of Vegetation Strata
10.		_		
11.				Tree - Woody plants 3 in. (7.6 cm) or more in diameter at
12				breast height (DBH), regardless of height.
	20	= Total Cov	er	Sapling/shrub - Woody plants less than 3 in. DBH and
Woody Vine Stratum (Plot size: 30 Feet)				greater than or equal to 3.28 ft (1 m) tall.
(1 101 3)20				Herb - All herbaceous (non-woody) plants, regardless of
1			·	size, and woody plants less than 3.28 ft tall.
2				Woody vines - All woody vines greater than 3 28 ft in
3				height.
4				
	0	_ = Total Cov	er	Hydrophytic
				Vegetation
				Present? Yes No X
Remarks: (Explain alternative procedures here or in a separate	report.)			
	-1/			

0	0		
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Depth	Matrix		Redo	x Features				
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-5	10YR 3/2	100			С		Clay Loam	
							·	
					·		·	
							·	
							·	
							·	
							·	
vpe: C=Cor	centration D=Depletion	 RM=Redu	uced Matrix MS=Mas	ked Sand Gr	ains		² Location:	· PI =Pore Lining M=Matrix
po: 0 001							Loodion	
dric Soil I	ndicators:						Indicators for	Problematic Hydric Soils ³ :
_ Histosol	(A1)		Polyvalue Belov	w Surface (Sa	8) (LRR R ,	MLRA 149	9B) 2 cm Muc	k (A10) (LRR K, L, MLRA 149B)
Histic Ep	oipedon (A2)		Thin Dark Surfa	ace (S9) (LR	R R, MLRA	A 149B)	Coast Pra	airie Redox (A16) (LRR K, L, R)
Black Hi	stic (A3)		Loamy Mucky N	Mineral (F1)	(LRR K, L)		5 cm Muc	ky Peat or Peat (S3) (LRR K, L, R
Hydroae	n Sulfide (A4)		Loamy Gleved	Matrix (F2)			Dark Surf	ace (S7) (LRR K, L)
Stratified	Lavers (A5)		Depleted Matrix	(E3)			Polyvalue	Below Surface (S8) (I RR K I)
_ Doplotor	h Bolow Dark Surface (A	(11)	Bodox Dark Su	rfaco (E6)			Thin Dark	
		(11)						
	ark Surface (A12)		Depleted Dark	Surface (F7)			Iron-Mang	ganese Masses (F12) (LRR K, L,
Sandv N	luckv Mineral (S1)		Redox Depress	ions (F8)			Piedmont	Floodplain Soils (F19) (MLRA 149
	· · · · · · · · · · · · · · · · · · ·						Mesic Spo	odic (TA6) (MLRA 144A, 145, 149
Sandy G	Bleyed Matrix (S4)							
Sandy G	Bleyed Matrix (S4) Redox (S5)						Red Pare	nt Material (F21)
Sandy G Sandy R Sandy R Stripped	Bleyed Matrix (S4) edox (S5) Matrix (S6)						Red Pare Verv Shal	nt Material (F21) low Dark Surface (TF12)
Sandy G Sandy R Stripped Dark Su	Bleyed Matrix (S4) Redox (S5) Matrix (S6) rface (S7) (LRR R, ML	RA 149B)					Red Pare Very Shal Other (Ex	nt Material (F21) low Dark Surface (TF12) plain in Remarks)
Sandy G Sandy R Stripped	ileyed Matrix (S4) tedox (S5) Matrix (S6) fface (S7) (LRR R, ML	RA 149B)					Red Pare Very Shal Other (Ex	nt Material (F21) Iow Dark Surface (TF12) plain in Remarks)
Sandy G Sandy R Stripped Dark Sun	Sleyed Matrix (S4) Redox (S5) Matrix (S6) Inface (S7) (LRR R, ML hydrophytic vegetation	RA 149B) and wetland	d hydrology must be p	present, unles	ss disturbed	l or probler	Red Pare Very Shal Other (Ex	nt Material (F21) low Dark Surface (TF12) plain in Remarks)
Sandy G Sandy R Stripped Dark Su ndicators of estrictive L	ileyed Matrix (S4) tedox (S5) Matrix (S6) rface (S7) (LRR R, ML hydrophytic vegetation ayer (if observed):	RA 149B) and wetland	d hydrology must be p	present, unles	ss disturbed	l or probler	Red Pare Very Shal Other (Ex natic.	nt Material (F21) llow Dark Surface (TF12) plain in Remarks)
Sandy G Sandy R Stripped Dark Sun ndicators of estrictive L	ileyed Matrix (S4) tedox (S5) Matrix (S6) rface (S7) (LRR R, ML hydrophytic vegetation ayer (if observed):	RA 149B) and wetland	d hydrology must be p	present, unles	ss disturbed	l or probler	Red Pare Very Shal Other (Ex	nt Material (F21) llow Dark Surface (TF12) plain in Remarks)
Sandy G Sandy R Stripped Dark Sun dicators of estrictive L Type: Depth (in	ileyed Matrix (S4) tedox (S5) Matrix (S6) rface (S7) (LRR R, ML hydrophytic vegetation ayer (if observed): ches):	RA 149B) and wetland	d hydrology must be p	present, unles	ss disturbed	l or probler	Red Pare Very Shal Other (Ex natic.	nt Material (F21) llow Dark Surface (TF12) plain in Remarks) ent? Yes No X
Sandy G Sandy R Stripped Dark Sur dicators of strictive L Type: Depth (in	ileyed Matrix (S4) tedox (S5) Matrix (S6) rface (S7) (LRR R, ML hydrophytic vegetation ayer (if observed): ches):	RA 149B) and wetland	d hydrology must be p	present, unles	ss disturbed	l or probler	Red Pare Very Shal Other (Ex natic.	nt Material (F21) llow Dark Surface (TF12) plain in Remarks) ent? Yes NoX
Sandy G Sandy R Stripped Dark Sun dicators of estrictive L Type: Depth (in emarks:	ileyed Matrix (S4) tedox (S5) Matrix (S6) rface (S7) (LRR R, ML hydrophytic vegetation ayer (if observed): ches):	RA 149B) and wetland	d hydrology must be p	present, unles	ss disturbed	l or probler	Red Pare Very Shal Other (Ex natic.	nt Material (F21) llow Dark Surface (TF12) plain in Remarks)
Sandy G Sandy R Stripped Dark Sun dicators of strictive L Type: Depth (in emarks:	Sileyed Matrix (S4) tedox (S5) Matrix (S6) rface (S7) (LRR R, ML hydrophytic vegetation ayer (if observed): ches):	RA 149B) and wetland	d hydrology must be p	present, unles	ss disturbed	l or probler	Med Pare Very Shal Other (Ex	nt Material (F21) llow Dark Surface (TF12) plain in Remarks)
Sandy G Sandy R Stripped Dark Sur dicators of strictive L Type: Depth (in	Sileyed Matrix (S4) tedox (S5) Matrix (S6) rface (S7) (LRR R, ML hydrophytic vegetation ayer (if observed): ches):	RA 149B) and wetland	d hydrology must be p	present, unles	ss disturbed	l or probler	Med Pare Very Shal Other (Ex	nt Material (F21) low Dark Surface (TF12) plain in Remarks)
Sandy G Sandy R Stripped Dark Sun dicators of estrictive L Type: Depth (in	Sileyed Matrix (S4) tedox (S5) Matrix (S6) rface (S7) (LRR R, ML hydrophytic vegetation ayer (if observed): ches): Auger refusal at 5" from	RA 149B) and wetland	d hydrology must be p	present, unles	ss disturbed	l or probler	Red Pare Very Shal Other (Ex natic. Hydric Soil Prese	nt Material (F21) low Dark Surface (TF12) plain in Remarks)
Sandy G Sandy R Stripped Dark Su adicators of estrictive L Type: Depth (in emarks:	Auger refusal at 5" from	RA 149B) and wetland	d hydrology must be p	present, unles	as disturbed	l or probler	Red Pare Very Shal Other (Ex natic. Hydric Soil Prese	nt Material (F21) low Dark Surface (TF12) plain in Remarks)
Sandy G Sandy R Stripped Dark Sur dicators of strictive L Type: Depth (in marks:	Auger refusal at 5" from	RA 149B) and wetland	d hydrology must be p	present, unles	as disturbed	l or probler	Red Pare Very Shal Other (Ex natic. Hydric Soil Prese	nt Material (F21) low Dark Surface (TF12) plain in Remarks)
Sandy G Sandy R Stripped Dark Sui dicators of strictive L Type: Depth (in marks:	Sleyed Matrix (S4) Ledox (S5) Matrix (S6) rface (S7) (LRR R, ML hydrophytic vegetation 	RA 149B) and wetland	d hydrology must be p	present, unles	ss disturbed	l or probler	Red Pare Very Shal Other (Ex matic.	nt Material (F21) low Dark Surface (TF12) plain in Remarks)
Sandy G Sandy R Stripped Dark Sur dicators of sstrictive L Type: Depth (in	Sileyed Matrix (S4) Ledox (S5) Matrix (S6) rface (S7) (LRR R, ML hydrophytic vegetation 	RA 149B) and wetland	d hydrology must be p	present, unles	ss disturbed	l or probler	Red Pare Very Shal Other (Ex matic.	nt Material (F21) low Dark Surface (TF12) plain in Remarks)
Sandy G Sandy R Stripped Dark Sur dicators of sstrictive L Type: Depth (in	Sileyed Matrix (S4) Ledox (S5) Matrix (S6) rface (S7) (LRR R, ML hydrophytic vegetation 	RA 149B) and wetland	d hydrology must be p	present, unles	as disturbed	l or probler	Red Pare Very Shal Other (Ex natic.	nt Material (F21) llow Dark Surface (TF12) plain in Remarks)
Sandy G Sandy R Stripped Dark Sur dicators of sstrictive L Type: Depth (in	Sileyed Matrix (S4) Redox (S5) Matrix (S6) rface (S7) (LRR R, ML hydrophytic vegetation ayer (if observed): ches): Auger refusal at 5" from	RA 149B) and wetland	d hydrology must be p	present, unles	ss disturbed	l or probler	Red Pare Very Shal Other (Ex Hydric Soil Prese	nt Material (F21) llow Dark Surface (TF12) plain in Remarks)
Sandy G Sandy R Stripped Dark Sur adicators of Strictive L Type: Depth (in emarks:	Auger refusal at 5" from	RA 149B) and wetland	d hydrology must be p	oresent, unles	ss disturbed	l or probler	Red Pare Very Shal Other (Ex natic.	nt Material (F21) llow Dark Surface (TF12) plain in Remarks)
Sandy G Sandy R Stripped Dark Sur dicators of strictive L Type: Depth (in emarks:	Auger refusal at 5" from	RA 149B) and wetland	d hydrology must be p	oresent, unles	ss disturbed	l or probler	Red Pare Very Shal Other (Ex Hydric Soil Prese	nt Material (F21) low Dark Surface (TF12) plain in Remarks)
Sandy G Sandy R Stripped Dark Sur dicators of estrictive L Type: Depth (in emarks:	Sileyed Matrix (S4) Redox (S5) Matrix (S6) rface (S7) (LRR R, ML hydrophytic vegetation ayer (if observed): ches): Auger refusal at 5" from	RA 149B) and wetland	d hydrology must be p	oresent, unles	ss disturbed	l or probler	Red Pare Very Shal Other (Ex Hydric Soil Prese	nt Material (F21) low Dark Surface (TF12) plain in Remarks)
Sandy G Sandy R Stripped Dark Sur dicators of estrictive L Type: Depth (in emarks:	Auger refusal at 5" from	RA 149B) and wetland	d hydrology must be p	oresent, unles	ss disturbed	l or probler	Red Pare Very Shal Other (Ex natic.	nt Material (F21) low Dark Surface (TF12) plain in Remarks)
Sandy G Sandy R Stripped Dark Sur dicators of strictive L Type: Depth (in	Auger refusal at 5" from	RA 149B) and wetland	d hydrology must be p	present, unles	ss disturbed	l or probler	Red Pare Very Shal Other (Ex natic. Hydric Soil Prese	nt Material (F21) low Dark Surface (TF12) plain in Remarks)
Sandy G Sandy R Stripped Dark Sui dicators of sstrictive L Type: Depth (in	Auger refusal at 5" from	RA 149B) and wetland	d hydrology must be p	present, unles	as disturbed	l or probler	Red Pare Very Shal Other (Ex natic. Hydric Soil Prese	nt Material (F21) low Dark Surface (TF12) plain in Remarks)
Sandy G Sandy R Stripped Dark Su dicators of sstrictive L Type: Depth (in	Sileyed Matrix (S4) Ledox (S5) Matrix (S6) rface (S7) (LRR R, ML hydrophytic vegetation 	RA 149B) and wetland	d hydrology must be p	present, unles	as disturbed	l or probler	Red Pare Very Shal Other (Ex Hydric Soil Prese	nt Material (F21) low Dark Surface (TF12) plain in Remarks)
Sandy G Sandy R Stripped Dark Sur dicators of estrictive L Type: Depth (in emarks:	Sileyed Matrix (S4) Redox (S5) Matrix (S6) rface (S7) (LRR R, ML hydrophytic vegetation 	RA 149B) and wetland	d hydrology must be p	present, unles	ss disturbed	l or probler	Red Pare Very Shal Other (Ex natic. Hydric Soil Prese	nt Material (F21) low Dark Surface (TF12) plain in Remarks)
Sandy G Sandy R Stripped Dark Sur adicators of estrictive L Type: Depth (in emarks:	Sileyed Matrix (S4) Redox (S5) Matrix (S6) rface (S7) (LRR R, ML hydrophytic vegetation ayer (if observed): ches): Auger refusal at 5" from	RA 149B) and wetland	d hydrology must be p	present, unles	ss disturbed	l or probler	Red Pare Very Shal Other (Ex matic. Hydric Soil Prese	nt Material (F21) low Dark Surface (TF12) plain in Remarks)
Sandy G Sandy R Stripped Dark Sur adicators of estrictive L Depth (in emarks:	Auger refusal at 5" from	RA 149B) and wetland	d hydrology must be p	present, unles	ss disturbed	l or probler	Red Pare Very Shal Other (Ex Hydric Soil Prese	nt Material (F21) low Dark Surface (TF12) plain in Remarks)
Sandy G Sandy R Stripped Dark Sur adicators of estrictive L Depth (in emarks:	Auger refusal at 5" from	RA 149B) and wetland	d hydrology must be p	oresent, unles	ss disturbed	l or probler	Red Pare Very Shal Other (Ex Hydric Soil Prese	nt Material (F21) low Dark Surface (TF12) plain in Remarks)
Sandy G Sandy R Stripped Dark Su ndicators of estrictive L Type: Depth (in emarks:	Sileyed Matrix (S4) Sedox (S5) Matrix (S6) rface (S7) (LRR R, ML hydrophytic vegetation .ayer (if observed): ches): Auger refusal at 5" from	RA 149B) and wetland	d hydrology must be p	oresent, unles	ss disturbed	l or probler	Red Pare Very Shal Other (Ex natic. Hydric Soil Prese	nt Material (F21) low Dark Surface (TF12) plain in Remarks)
Sandy G Sandy R Stripped Dark Su adicators of estrictive L Type: Depth (in emarks:	Sileyed Matrix (S4) Sedox (S5) Matrix (S6) rface (S7) (LRR R, ML hydrophytic vegetation ayer (if observed): ches): Auger refusal at 5" from	RA 149B) and wetland	d hydrology must be p	present, unles	ss disturbed	l or probler	Red Pare Very Shal Other (Ex natic. Hydric Soil Prese	nt Material (F21) low Dark Surface (TF12) plain in Remarks)
Sandy G Sandy R Stripped Dark Sui adicators of estrictive L Type: Depth (in emarks:	Sileyed Matrix (S4) Redox (S5) Matrix (S6) rface (S7) (LRR R, ML hydrophytic vegetation .ayer (if observed): ches): Auger refusal at 5" from	RA 149B) and wetland	d hydrology must be p	present, unles	as disturbed	i or probler	Red Pare Very Shal Other (Ex natic. Hydric Soil Prese	nt Material (F21) low Dark Surface (TF12) plain in Remarks)
Sandy G Sandy R Stripped Dark Sui dicators of strictive L Type: Depth (in marks:	Sileyed Matrix (S4) Redox (S5) Matrix (S6) rface (S7) (LRR R, ML hydrophytic vegetation .ayer (if observed): ches): Auger refusal at 5" from	RA 149B) and wetland	d hydrology must be p	present, unles	as disturbed	l or probler	Red Pare Very Shal Other (Ex natic. Hydric Soil Prese	nt Material (F21) low Dark Surface (TF12) plain in Remarks)
Sandy G Sandy R Stripped Dark Su dicators of strictive L Type: Depth (in marks:	Sileyed Matrix (S4) Redox (S5) Matrix (S6) rface (S7) (LRR R, ML hydrophytic vegetation .ayer (if observed): ches): Auger refusal at 5" from	RA 149B) and wetland	d hydrology must be p	present, unles	ss disturbed	l or probler	Red Pare Very Shal Other (Ex natic. Hydric Soil Prese	nt Material (F21) low Dark Surface (TF12) plain in Remarks)

Project/Site:	16153 He	eritage Wind		City/Coun	ity: Tow	n of Barre, 0	Orleans (County	Sampling Date:	04/18/2022
Applicant/Owner:		Herita	ge Wind, LLC				State:	New York	Sampling Point:	66W03-01U
Investigator(s):		JB BA		Section, T	rownship, Rar	ige:		To	wn of Barre	
Landform (hillslope, terra	ice, etc):	Flat	Local re	elief (conca	ive, convex, n	one):		convex	Slop	e (%): 0-5
Subregion (LRR or MLRA	۹):	LRR L	Lat:	43.2	0993667	Long:		-78.1271410	67 Datu	Im: WGS 1984
Soil Map Unit Name:	Н	ilton loam, 0 to 3	percent slopes,	bedrock s	ubstratum		NM	/I classification	on:	N/A
Are climatic / hydrologic o	conditions on the s	site typical for this	time of year?	Yes X	K No	(If	no, expla	in in Remark	(s.)	
Are Vegetation X	, Soil, c	or Hydrology	significantly	y disturbed	? A	re "Normal	Circumst	ances" prese	ent? Yes	X No
Are Vegetation	, Soil , c	r Hydrology	naturally pr	oblematic	? (f needed, ex	xplain an	y answers in	Remarks.)	
SUMMARY OF FIN	DINGS - Attac	h site map sh	owing sam	pling po	oint locatio	ons, trans	sects, i	nportant	features, etc.	
Hydrophytic Vegetation	n Present?	Yes	No X		Is the Samr	led Area		-		
Hydric Soil Present?		Yes		_	within a We	tland?		Yes	No X	
Wetland Hydrology Pre	esent?	Yes	No X	_	If ves. option	al Wetland	Site ID:			
Remarks: (Explain alte Active ag	rnative procedure: riculture field, dist	s here or in a sepa urbed vegetation.	arate report.)							
HYDROLOGY										
Wetland Hydrology Ir	dicators:									
Primary Indicators (mir	nimum of one requ	uired: check all the	t apply)				Sec	ondary Indica	ators (minimum of	two required)
Surface Water (A	<u>1)</u>		Water-Stained	l eaves (F	39)			Surface Soi	Cracks (B6)	(no required)
High Water Table	(A2)		Aquatic Fauna	a (B13)	20)			Drainage Pa	atterns (B10)	
Saturation (A3)	· · ·	_	Marl Deposits	(B15)				Moss Trim L	Lines (B16)	
Water Marks (B1))		Hydrogen Sul	fide Odor ((C1)			Dry-Season	Water Table (C2))
Sediment Deposit	ts (B2)		Oxidized Rhiz	ospheres of	on Living Roo	ts (C3)		Crayfish Bu	rrows (C8)	
Drift Deposits (B3	s)		Presence of F	Reduced Iro	on (C4)			Saturation \	/isible on Aerial In	nagery (C9)
Algal Mat or Crus	t (B4)		Recent Iron R	eduction ir	n Tilled Soils (C6)		Stunted or S	Stressed Plants (E	01)
Iron Deposits (B5)		Thin Muck Su	rface (C7)				Geomorphic	Position (D2)	
Inundation Visible	on Aerial Imagery	y (B7)	Other (Explain	n in Remar	ks)			Shallow Aqu	uitard (D3)	
Sparsely Vegetate	ed Concave Surfac	ce (B8)						Microtopogr	aphic Relief (D4)	
								FAC-Neutra	l Test (D5)	
Field Observations										
Surface Water Present	t? Yes	No X	Depth (inche	es):						
Water Table Present?	Yes		Depth (inche	es):						
Saturation Present?	Yes	No X	Depth (inche	es):		Wetland H	lvdroloa	v Present?	Yes	No X
(includes capillary fring	ue)						,			
(
Describe Recorded Da	ata (stream gauge,	, monitoring well, a	aerial photos, p	revious ins	pections), if a	vailable:				
Domarke.										
Remarks:										
Remarks:										
Remarks:										
Remarks:										
Remarks:										
Remarks:										
Remarks:										
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Remarks:										
Remarks:										
Remarks:										
Remarks:										
Remarks:										
Remarks:										

Sampling Point: 66W03-01U

				Dominance Test worksheet:
				That Are OBL_FACW_or_FAC' 1 (A)
	Absolute	Dominant	Indicator	
Tree Stratum (Plot size: <u>30 Feet</u>)	% Cover	Species?	Status	Total Number of Dominant
1				Species Across All Strata: 4 (B)
3				
4			- <u> </u>	Percent of Dominant Species
5.				That Are OBL, FACW, or FAC: 25.0 (A/B)
6.				Prevalence Index worksheet:
7.				Total % Cover of Multiply by
	0	= Total Cov	er	$\frac{1}{OBL \text{ species}} \qquad 0 \qquad x = 0$
Sapling/Shrub Stratum (Plot size: 15 Feet)				FACW species $0 x 2 = 0$
1				FAC species 5 x 3 = 15
2				FACU species 10 x 4 = 40
3.				UPL species <u>5</u> x 5 = <u>25</u>
4				Column Totals: (A) (B)
5				
7				Prevalence Index = B/A =4.0
··	0	= Total Cov	er	Hydrophytic Vegetation Indicators:
Herb Stratum (Plot size: 5 Feet)				1 - Rapid Test for Hydrophytic Vegetation
1. Plantago major / Common plantain	5	Yes	FACU	2 - Dominance Test is >50%
2. Trifolium repens / White clover	5	Yes	FACU	3 - Prevalence Index ≤3.0 ¹
3. Barbarea verna / Wintercress, Early winter cress	5	Yes	NI	4 - Morphological Adaptations ¹ (Provide supporting
4. Potentilla norvegica / Norwegian cinquefoil, Norwegian or rou	5	Yes	FAC	Problematic Hydrophytic Vegetation ¹ (Explain)
5				
6				¹ Indicators of hydric soil and wetland hydrology must
7				be present, unless disturbed or problematic.
8				Definitions of Vegetation Strata
9				
10				Tree - Woody plants 3 in. (7.6 cm) or more in diameter at
12.				breast height (DBH), regardless of height.
	20	= Total Cov	er	Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
Woody Vine Stratum (Plot size: <u>30 Feet</u>) 1.				Herb - All herbaceous (non-woody) plants, regardless of
2.				size, and woody plants less than 3.28 ft tall.
3			<u> </u>	Woody vines - All woody vines greater than 3.28 ft in beight
4				neight.
	0	= Total Cov	er	Hydrophytic
				Vegetation
				Present? Yes No X
Demontos (Evaleia elterantivo recordivos harras in	report \			
Remarks: (Explain alternative procedures here or in a separate	report.)			

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Depth	Matrix	le deptil lieede	Redox	Features		the abser	ice of indicators.)			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks	6	
0-12	10YR 3/2	99	10YR 4/4	1	С	М	Clay Loam			
					· . <u></u>					
					· . <u> </u>					
					. <u> </u>					
		<u> </u>			·					
¹ Type: C=Coi	ncentration D=Depletio	n RM=Reduced	Matrix MS=Mas	ed Sand Gr	ains		² l ocation: PI =	Pore Lining M=	=Matrix	
.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,										
Hydric Soil I	ndicators:						Indicators for Prot	ematic Hydri	c Soils ³ :	
Histosol	(A1)		Polyvalue Below	Surface (S	8) (LRR R,	MLRA 149	B) 2 cm Muck (A1	0) (LRR K, L,	MLRA 149B)	
HISTIC EP	olpedon (A2)		I nin Dark Surfa	Ce (S9) (LH	(R R, MLRA	A 149B)		(edox (A16) (L		D \
Black Hi	STIC (A3)	<u> </u>	Loamy Mucky N		(LRR K, L)		5 cm Mucky Pe	eat of Peat (S3)) (LKK K, L, I	R)
Hydroge	n Suilide (A4)		Loany Gleyed N				Dark Surface ((LKKK, L)	.) //	
Oraline	d Below Dark Surface (/	<u> </u>	Peday Dark Sur	(F3) face (E6)			Thin Dark Surf			
Depieted	ark Surface (A12)		Depleted Dark Su	Surface (F0)				ace (39) (LKK)	N (IRRKI	R)
Sandy M	And Sundee (A12) Aucky Mineral (S1)		Redox Depressi	ons (F8)			Piedmont Floo	dolain Soils (F1	9) (MI RA 14	., IX) 19R)
Sandy G	Gleved Matrix (S4)			0110 (1 0)			Mesic Spodic (TA6) (MLRA '	144A. 145. 14	19B)
Sandy R	Redox (S5)						Red Parent Ma	iterial (F21)	, , ,	,
Stripped	Matrix (S6)						Verv Shallow D	ark Surface (T	F12)	
Dark Su	rface (S7) (LRR R. ML	.RA 149B)					Other (Explain	in Remarks)	,	
_										
³ Indicators of	hydrophytic vegetation	and wetland hy	drology must be p	resent, unles	ss disturbed	or problen	natic.			
Restrictive L	ayer (if observed):									
Туре:			_							
Depth (in	ches):		_				Hydric Soil Present?	Yes	No	X
Remarks:										
	Auger refusal at 12" due	e to gravel.								

Proiect/Site:	16153 Heritage Wind	Citv/Countv: T	own of Barre. Orleans C	County	Sampling Date:	04/18/2022
Applicant/Owner:	Heritage Wind	ULC	State:	New York	Sampling Point:	66W03-01W
Investigator(s):	JB BA	Section, Township, F	lange:	Том	vn of Barre	
Landform (hillslope, terrace, etc	:): Flat L	ocal relief (concave, convex	, none):	concave	Slope ((%): 0-5
Subregion (LRR or MLRA):	LRR L L	at: 43.21025667	Long:	-78.126805	Datum:	WGS 1984
Soil Map Unit Name:	Kendaia and Appleton soils, 0 to 3 p	ercent slopes, bedrock sub	stratum NW	I classification	n: N	I/A
Are climatic / hydrologic condition	ons on the site typical for this time of y	ear? Yes X N	o (If no, expla	in in Remarks	6.)	
Are Vegetation, Soil	, or Hydrologysigni	ficantly disturbed?	Are "Normal Circumsta	ances" preser	nt? Yes X	No
Are Vegetation, Soil	, or Hydrologynatur	rally problematic?	(If needed, explain any	y answers in F	Remarks.)	
SUMMARY OF FINDING	S - Attach site map showing	sampling point location	tions, transects, in	mportant f	eatures, etc.	
Hydrophytic Vegetation Prese	ent? Yes X No	Is the Sa	mpled Area			
Hydric Soil Present?	Yes X No	within a V	Vetland?	Yes X	No	
Wetland Hydrology Present?	Yes X No	If yes, opt	ional Wetland Site ID:		PFO	
Remarks: (Explain alternative PFO/PEM wetla	procedures here or in a separate rep ind complex within forested area along	ort.) gedge of soybean field.				
HYDROLOGY						
Wetland Hydrology Indicate	ors:					
Primary Indicators (minimum	of one required: check all that apply)		Sec	ondary Indicat	tors (minimum of tw	vo required)
X Surface Water (A1)	Water-S	Stained Leaves (B9)		Surface Soil	Cracks (B6)	
X High Water Table (A2)	Aquatic	Fauna (B13)	_	Drainage Pat	tterns (B10)	
X Saturation (A3)	Marl De	posits (B15)		Moss Trim Li	ines (B16)	
X Water Marks (B1)	Hydrog	en Sulfide Odor (C1)	_	Dry-Season	Water Table (C2)	
Sediment Deposits (B2)	Oxidize	d Rhizospheres on Living R	oots (C3)	Crayfish Burr	rows (C8)	
Drift Deposits (B3)	Present	ce of Reduced Iron (C4)		Saturation Vi	isible on Aerial Imag	gery (C9)
Algal Mat or Crust (B4)	Recent	Iron Reduction in Tilled Soil	s (C6)	Stunted or St	tressed Plants (D1))
Iron Deposits (B5)	Thin Mu	uck Surface (C7)		Geomorphic	Position (D2)	
Inundation Visible on Ae	rial Imagery (B7) Other (I	Explain in Remarks)		Shallow Aqui	itard (D3)	
Sparsely Vegetated Con	cave Surface (B8)			Microtopogra	aphic Relief (D4)	
			<u></u>	FAC-Neutral	Test (D5)	
Field Observations:						
Surface Water Present?	Yes X No Depth	(inches): 1				
Water Table Present?	Yes X No Depth	(inches): 4				
Saturation Present?	Yes X No Depth	(inches): 0	Wetland Hydrology	y Present?	Yes X	No
(includes capillary fringe)						
Describe Recorded Data (str		tee provieus increations)	f available:			
Describe Recorded Data (stre	sam gauge, monitoring well, aerial pro	otos, previous inspections),	f available:			
Remarks:						
Surface water c	ollecting in low areas					

Sampling Point: 66W03-01W

Tree Stratum (Plot size: <u>30 Feet</u>) 1. <u>Acer saccharinum / Silver maple</u> 2. Fraxinus penpsylvanica / Green ash	Absolute % Cover 40 25	Dominant Species? Yes Yes	Indicator Status FACW FACW	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: Total Number of Dominant Species Across All Strata:		5	(A) (B)
	10	Na					
	10			Percent of Dominant Species			
	10	NO	FACW	That Are OBL, FACW, or FAC:	(83.3	(A/B)
5 6			- <u> </u>	Prevalence Index worksheet:			,
7.				Total % Cover of	Mult	tinly by:	
	85	= Total Cov	er		v 1 –	0	
Sapling/Shrub Stratum (Plot size: 15 Feet)		_			× · ·	0	
1 Fravinus pennsylvanica / Green ash	35	Ves	FACW	FACW species 125	x 2 =	250	
2 Linders hanzain / Nerthern anischuch	10	Vee	FACW	FAC species 10	x 3 =	30	
	10	Tes	FACW	FACU species 10	x 4 =	40	
3			- <u> </u>	UPL species 0	x 5 =	0	
4		_	- <u> </u>	Column Totals: 145	(A)	320	(B)
5							
6				Prevalence Index = B/A =		2 21	
7.							_
	45	= Total Cov	er	Hydrophytic Vegetation Indicat	tors:		
Herb Stratum (Plot size: 5 Feet)		_		1 - Rapid Test for Hydrophyt	tic Vegeta	tion	
1 Posa multiflora / Multiflora rose, Multiflora rosa	10	Vec	FACU	X 2 Dominance Test is >50%			
2. Pholoria arundinana / Paod esparturezza Bood espany grazz	F	Vee	EACW/	\times 2 - Dominance rest is > 30 / 0)		
2. Phalans arunumacea / Reeu canarygrass, Reeu canary gras	5	Tes	FACW		1 (
3				4 - Morphological Adaptation	ns' (Provie	de suppor	ing
4			- <u> </u>	Problematic Hydrophytic Ve	getation ¹	(Explain)	
5							
6				¹ Indicators of hydric soil and wetl	and hydro	ology must	
7.				be present, unless disturbed or p	oroblemati	c.	
8.							
9.			- <u></u>	Definitions of Vegetation Strata	а		
10							
11.			- <u> </u>	Tree - Woody plants 3 in. (7.6 cm breast height (DBH), regardless	1) or more of height.	e in diamet	er at
12				Sanling/shrub Woody plants le	- see than 3		nd
Woody Vine Stratum (Plot size: 30 Feet)	15	= Total Cov	er	greater than or equal to 3.28 ft (1	m) tall.		
<u> </u>				Herb - All herbaceous (non-wood size, and woody plants less than	dy) plants, 3.28 ft ta	, regardles II.	is of
<u> </u>				Woody vines - All woody vines of	areater the	an 3 28 ft i	n
3				height.	<i>j. o a to . t</i>		
4				5			
	0	= Total Cov	er	Hydrophytic			
				Vogotation			
				Breent 2 Von V	No		
				riesentr res X			
Remarks: (Explain alternative procedures here or in a separate 10% Carex Sp. also present in herbaceous stratum	report.) n, too early	in season to	dentify				

0	0		
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Depth	Matrix		Redox	Features		-		
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-7	10YR 3/1	100	· · · ·			PL	Clay Loam	
7-18	10YR 5/2	60	5YR 5/6	40		М	Clay	
				<u> </u>				
				· <u> </u>				
ype: C=Con	ncentration, D=Depletion	n, RM=Red	uced Matrix, MS=Masł	ked Sand Gr	ains.		² Location:	PL=Pore Lining, M=Matrix.
ydric Soil Ir	ndicators:			o (()			Indicators for	Problematic Hydric Soils ³ :
HISTOSOI	(A1)		Polyvalue Below	/ Surface (S		MLRA 149	B) 2 cm Much	(A10) (LRR K, L, MLRA 149B)
	pipedon (A2)			ce (59) (LR		4 149B)		
Васк Нія	stic (A3)			lineral (F1)	(LRR K, L)			ky Peat or Peat (S3) (LRR K, L, R)
Hydroge	n Sulfide (A4)		Loamy Gleyed M	/latrix (F2)			Dark Surfa	ace (S7) (LRR K, L)
Stratified	Layers (A5)		X Depleted Matrix	(F3)			Polyvalue	Below Surface (S8) (LRR K, L)
Depleted	Below Dark Surface (A	411)	Redox Dark Sur	face (F6)			Thin Dark	Surface (S9) (LRR K, L)
Thick Da	ark Surface (A12)		Depleted Dark S	Surface (F7)			Iron-Mang	anese Masses (F12) (LRR K, L, R)
Sandy M	lucky Mineral (S1)		Redox Depressi	ons (F8)			Piedmont	Floodplain Soils (F19) (MLRA 149B)
Sandy G	leyed Matrix (S4)						Mesic Spo	odic (TA6) (MLRA 144A, 145, 149B)
Sandy R	edox (S5)						Red Parer	nt Material (F21)
Stripped	Matrix (S6)						Verv Shall	ow Dark Surface (TF12)
Dark Sur	rface (S7) (LRR R, ML	.RA 149B)					Other (Exp	plain in Remarks)
ndicators of	hydrophytic vegetation	and wetland	d hydrology must be p	resent. unles	ss disturbed	l or problem	natic.	
estrictive L	aver (if observed):							
Type:	,							
Depth (inc	ches):						Hydric Soil Prese	nt? Yes <u>X</u> No
emarks:								

Project/Site:	16153 Heritage Wind	Citv/0	County: Town of Barr	e. Orleans Countv	Sampling Date: 04/18/2022
Applicant/Owner:		Heritage Wind, LLC		State: New York	Sampling Point: 66W03-02W
Investigator(s):	JB BA	Secti	on, Township, Range:		wn of Barre
Landform (hillslope, terrace,	etc): Depressio	n Local relief (c	oncave, convex, none):	concave	Slope (%): 0-5
Subregion (LRR or MLRA):	LRR L	Lat:	43.210135 Lor	ng: -78.12678	B Datum: WGS 1984
Soil Map Unit Name:	Kendaia and Appletor	soils, 0 to 3 percent slope	s, bedrock substratum	NWI classificati	on: N/A
Are climatic / hydrologic cond	litions on the site typical fo	r this time of year? Yes	X No	(If no, explain in Remark	(S.)
Are Vegetation , So	il , or Hydrology	significantly distu	rbed? Are "Norm	al Circumstances" prese	ent? Yes X No
Are Vegetation , So	il, or Hydrology	naturally problem	atic? (If needed	l, explain any answers in	Remarks.)
SUMMARY OF FINDIN	GS - Attach site ma	p showing sampling	point locations, tra	nsects, important	features, etc.
Hydrophytic Vegetation Pre	esent? Yes	X No	Is the Sampled Area	· ·	
Hydric Soil Present?	Yes	X No	within a Wetland?	Yes X	No
Wetland Hydrology Presen	t? Yes	X No	If ves optional Wetla	nd Site ID [.]	PFM
		<u></u>			· • • · · ·
Remarks: (Explain alternat PEM data poi	ive procedures here or in a nt for 66W03. Connected	a separate report.) to NWI PFO1/4E			
HYDROLOGY					
Wetland Hydrology Indic	ators:				
Primary Indicators (minimu	m of one required; check	all that apply)		Secondary Indic	ators (minimum of two required)
X Surface Water (A1)	·	Water-Stained Leav	es (B9)	Surface So	il Cracks (B6)
X High Water Table (A2)	Aquatic Fauna (B13)	Drainage P	atterns (B10)
X Saturation (A3)		Marl Deposits (B15)		Moss Trim	Lines (B16)
Water Marks (B1)		Hydrogen Sulfide O	dor (C1)	Dry-Seasor	n Water Table (C2)
Sediment Deposits (B	2)	Oxidized Rhizosphe	res on Living Roots (C3)	Crayfish Bu	irrows (C8)
Drift Deposits (B3)		Presence of Reduce	ed Iron (C4)	Saturation V	Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4	ł)	Recent Iron Reduct	on in Tilled Soils (C6)	Stunted or	Stressed Plants (D1)
Iron Deposits (B5)		Thin Muck Surface	(C7)	Geomorphi	c Position (D2)
Inundation Visible on	Aerial Imagery (B7)	Other (Explain in Re	emarks)	Shallow Aq	uitard (D3)
Sparsely Vegetated C	oncave Surface (B8)			Microtopog	raphic Relief (D4)
				X FAC-Neutra	al Test (D5)
Field Observations:					
Surface Water Present?	Yes X No	Depth (inches):	4		
Water Table Present?	Yes X No	Depth (inches):	0		
Saturation Present?	Yes X No	Depth (inches):	0 Wetland	d Hydrology Present?	Yes X No
(includes capillary fringe)		Dopan (monoo)		a nyarology riccontr	
(moladoo oapinary milgo)					
Describe Recorded Data (stream gauge, monitoring	well, aerial photos, previou	s inspections), if available:		
Remarks:					

Sampling Point: 66W03-02W

	Absolute	Dominant	Indicator	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)
Tree Stratum (Plot size:	% Cover	Species?	Status	Total Number of Dominant Species Across All Strata: 2 (B)
3. 4. 5.				Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0 (A/B)
6 7				Prevalence Index worksheet:
	0	= Total Cov	er	$\frac{1}{\text{OBL species}} = 20 \qquad \text{x 1} = 20$
Sapling/Shrub Stratum (Plot size: 15 Feet)		-		EACW species $40 \times 2 = 80$
1.				FAC species $0 \times 3 = 0$
2.		_		$\frac{1}{10} \times 4 = 40$
3.		_		$\frac{1100}{10} \times 5 = 0$
4.				$\begin{array}{c} \text{Or } E \text{ species} & \underline{0} & \underline{0} & \underline{0} \\ \text{Column Totals:} & \underline{70} & \underline{(A)} & \underline{140} & \underline{(P)} \end{array}$
5.				
6 7				Prevalence Index = B/A =2.0
	0	= Total Cov	er	Hydrophytic Vegetation Indicators:
Herb Stratum (Plot size: 5 Feet)				X 1 - Rapid Test for Hydrophytic Vegetation
1 Phalaris arundinacea / Reed canary grass Reed canary gras	40	Yes	FACW	X = 2 - Dominance Test is >50%
2 Juncus effusus / Common bog rush. Soft or lamp rush	20	Yes	OBI	X 3 - Prevalence Index $\leq 3.0^{1}$
Rosa multiflora / Multiflora rose Multiflora rosa	10	No	FACU	4 - Morphological Adaptations ¹ (Provide supporting
4				Problematic Hydrophytic Vegetation ¹ (Explain)
5				
5				Indicators of hydric soil and wotland hydrology must
0				he present upless disturbed or problematic
1				be present, unless disturbed of problematic.
8	·			Definitions of Vegetation Strata
9				
10				Tree - Woody plants 3 in (7.6 cm) or more in diameter at
11				breast height (DBH), regardless of height.
12				Sanling/shrub - Woody plants less than 3 in DBH and
	70	= = lotal Cov	er	greater than or equal to 3.28 ft (1 m) tall.
Woody Vine Stratum (Plot size:				Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
2				Woody vines - All woody vines greater than 3.28 ft in
3			- <u> </u>	height.
4	0	= Total Cov	er	Hydrophytic
				Vegetation Present? Yes X No
Remarks: (Explain alternative procedures here or in a separate	report.)			1
······································				

0	0		
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(inches) Color (moist) % Type! Loc ² Texture Remarks 0-18 10YR 4/2 97 10YR 4/6 3 C PL,M Clay Loam		Matrix		Redox	Features				
0-18 10YR 4/2 97 10YR 4/6 3 C PL.M Clay Loam Clay Loam Clay Loam Clay Loam Clay Loam Clay Loam Clay Loam Clay Loam Clay Loam Clay Loam Clay Loam Clay Loam Clay Loam Clay Loam Clay Loam Clay Loam Clay Loam Clay Loam Clay Loam Clay Loam Clay Loam Clay Loam Clay Loam Clay Loam Clay Loam Clay Loam Clay Loam Clay Loam Clay Loam Clay Loam Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. *Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: Indicators for Problematic Hydric Soils*: Histic Epipedon (A2) Thin Dark Surface (S9) (LRR R, ILRA 149B) 2 cm Muck (A10) (LRR K, L, MLRA 149B) Clay Fraine Redox A161 (LRR K, L) Loamy Mucky Mineral (F1) (LRR K, L) 5 cm Muck Y Peat or Peat (S3) (LRR K, L) Stratified Layers (A5) X Depleted Matrix (F2) Dark Surface (S7) (LRR K, L) Sandy Mucky Mineral (S1) Redox Dark Surface (F6) Thin Dark Surface (S1) (LRR K, L) Sandy Mucky Mineral (S1) Redox Dark Su	(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
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 (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) Hydrigen Sulfide (A4) Loamy Gleyed Matrix (F2) Depleted Dark Surface (S6) Thin Dark Surface (F7) Thick Surface (A12) Depleted Dark Surface (F7) Sandy Mucky Mineral (S1) Redox Depressions (F8) Standy Redox (S5) Redox Depressions (F8) Standy Redox (S5) Straped Matrix (S4) Standy Redox (S5) Wets Present, unless disturbed or problematic. testrictive Layer (if observed): Type: Type: Depth (inches):	0-18	10YR 4/2	97	10YR 4/6	3	C	PL,M	Clay Loam	
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ^a Location: PL=Pore Lining, M=Matrix. Ydric Soil Indicators: Indicators for Problematic Hydric Soils ^a : Histosol (A1) Polyvalue Below Surface (S8) (LRR R, MLRA 149B) Histo Epipedon (A2) Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) Stratified Layers (A5) X Depleted Below Dark Surface (A11) Redox Dark Surface (F6) Thick Dark Surface (A12) Depleted Dark Surface (F7) Sandy Mucky Mineral (S1) Redox Depressions (F8) Sandy Redox (S5) Red Parent Material (F21) Striped Matrix (S4) Other (Explain in Remarks) 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. Polyealue Elevert? Yery									
Hydric Soil Indicators: Indicators for Problematic Hydric Soils ³ : Histosol (A1) Polyvalue Below Surface (S8) (LRR R, MLRA 149B) Histic Epipedon (A2) Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Stratified Layers (A5) X 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) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. testrictive Layer (if observed): Type: Type: Depth (inches): Depth (inches): Yes _ X _ No _	Type: C=Co	ncentration, D=Depletio	n, RM=Rec	duced Matrix, MS=Mask	ked Sand Gr	ains.		²Location: P	PL=Pore Lining, M=Matrix.
Restrictive Layer (if observed): Hydric Soil Present? Yes X No	Iydric Soil I Histosol Histic E _l Black Hi Hydroge Stratified Depletee Thick Da Sandy N Sandy R Sandy F Strippec Dark Su	ndicators: (A1) pipedon (A2) istic (A3) en Sulfide (A4) d Layers (A5) d Below Dark Surface (A ark Surface (A12) Mucky Mineral (S1) Gleyed Matrix (S4) Redox (S5) d Matrix (S6) rface (S7) (LRR R, ML	A11) .RA 149B) and wetlar	Polyvalue Below Thin Dark Surfa Loamy Mucky M Loamy Gleyed M X Depleted Matrix Redox Dark Sur Depleted Dark S Redox Depressi	v Surface (S ce (S9) (LF lineral (F1) Matrix (F2) (F3) face (F6) Surface (F7) ons (F8)	8) (LRR R R R, MLR/ (LRR K, L)	,MLRA 14: A 149B)	Indicators for P 9B) 2 cm Muck 5 cm Mucky 5 cm Mucky Dark Surface Polyvalue B Thin Dark S Iron-Manga Piedmont F Mesic Spod Red Parent Very Shallov Other (Explayment) matic.	roblematic Hydric Soils ³ : (A10) (LRR K, L, MLRA 149B) (a Redox (A16) (LRR K, L, R) (a Peat or Peat (S3) (LRR K, L, R) (b) Peat or Peat (S3) (LRR K, L, R) (a Peat or Peat (S3) (LRR K, L) (a Peat or Peat (S3) (LRR K, L, R) (a Peat or Peat (S3) (LRR K, L) (a Peat or Peat (S3) (LRR K, L, R) (a Peat or Peat (S3) (LRR K, L) (a Peat or Peat (S3) (LR K, L) (a Peat or
	Restrictive L Type: Depth (in	ayer (if observed):						Hydric Soil Present	t? Yes X No
Remarks:									

Project/Site:	16153 He	eritage Wind	Citv/Co	untv: Town o	f Barre. Orleans Countv	Sampling Date:	04/19/2022
Applicant/Owner:		Herita	ge Wind, LLC		State: New York	Sampling Point:	66W04-01U
Investigator(s):		JB BA	Section	, Township, Range	 :	own of Barre	
Landform (hillslope, terrad	ce, etc):	Flat	Local relief (con	cave, convex, none	e): none	Slope	(%): 0-5
Subregion (LRR or MLRA	N):	LRR L	Lat:	13.14559	Long: -78.17247	333 Datum	: WGS 1984
Soil Map Unit Name:			Palms muck		NWI classifica	ion: N	I/A
Are climatic / hydrologic c	conditions on the s	site typical for this	time of year? Yes	X No	(If no, explain in Rema	ks.)	
Are Vegetation X	, Soil, o	or Hydrology	significantly disturbe	ed? Are	"Normal Circumstances" pres	ent? Yes X	No
Are Vegetation	, Soil, o	or Hydrology	naturally problemati	c? (If ne	eeded, explain any answers i	n Remarks.)	
SUMMARY OF FINE	DINGS - Attac	h site map sh	lowing sampling p	point locations	, transects, importan	features, etc.	
Hydrophytic Vegetation	Present?	Yes	No X	Is the Sampled	l Area		
Hydric Soil Present?		Yes	No X	within a Wetla	nd? Yes	No X	
Wetland Hydrology Pre	esent?	Yes	No X	If yes, optional	Wetland Site ID:		-
Remarks: (Explain alter Area withi	rnative procedures in actively tilled an	s here or in a sepa nd farmed field. Ve	arate report.) getation is disturbed re	gularly by farming.			
HYDROLOGY							
Wetland Hydrology In	dicators.						
Primary Indicators (min	imum of one requ	lired: check all that	t apply)		Secondary Indi	cators (minimum of ty	vo required)
Surface Water (A1)		Water-Stained Leaves	(B9)	Surface Se	oil Cracks (B6)	
High Water Table	, (A2)	_	Aquatic Fauna (B13)		Drainage I	Patterns (B10)	
Saturation (A3)	`		Marl Deposits (B15)		Moss Trim	Lines (B16)	
Water Marks (B1)			Hydrogen Sulfide Odo	r (C1)	Dry-Seaso	n Water Table (C2)	
Sediment Deposits	s (B2)		Oxidized Rhizosphere	s on Living Roots (C3) Crayfish B	urrows (C8)	
Drift Deposits (B3))		Presence of Reduced	Iron (C4)	Saturation	Visible on Aerial Ima	gery (C9)
Algal Mat or Crust	: (B4)		Recent Iron Reduction	in Tilled Soils (C6)) Stunted or	Stressed Plants (D1))
Iron Deposits (B5))		Thin Muck Surface (C	7)	Geomorph	ic Position (D2)	
Inundation Visible	on Aerial Imagery	y (B7)	Other (Explain in Rem	arks)	Shallow A	quitard (D3)	
Sparsely Vegetate	ed Concave Surfac	ce (B8)			Microtopo	raphic Relief (D4)	
					FAC-Neut	al Test (D5)	
Field Observations:							
Surface Water Present	? Yes	No X	Depth (inches)				
Water Table Present?	Yes		Depth (inches):				
Saturation Present?	Yes		Depth (inches):	w	etland Hvdrology Present?	Yes	No X
(includes capillary fring	e)						<u> </u>
(-,						
Describe Recorded Dat	ta (stream gauge,	, monitoring well, a	aerial photos, previous i	nspections), if avai	lable:		
Pemarks:							
Remarks.							

Sampling Point: 66W04-01U

	Absolute	Dominant	Indicator	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)
Tree Stratum (Plot size:30 Feet) 1. 2.	% Cover	Species?	Status	Total Number of Dominant Species Across All Strata: 1 (B)
3 4 5				Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0 (A/B)
6	0	_ = Total Cove	er	Prevalence Index worksheet:Total % Cover of:Multiply by:OBL species0 $x 1 = 0$ FACW species0 $x 2 = 0$ FAC species0 $x 3 = 0$ FACU species0 $x 4 = 0$ UPL species15 $x 5 = 75$ Column Totals:15(A)
6 7	0	= Total Cove	 	Prevalence Index = B/A =
Herb Stratum (Plot size: 5 Feet) 1. Lamium purpureum / Purple dead nettle 2. 3. 4. 5. 6.	15	Yes 	<u>NI</u>	1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index ≤3.01 4 - Morphological Adaptations1 (Provide supporting Problematic Hydrophytic Vegetation1 (Explain) 1Indicators of hydric soil and wetland hydrology must
7 8 9.				be present, unless disturbed or problematic. Definitions of Vegetation Strata
10 11 12				Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
Vlaadu Vina Stratum (Platisiza: 20 East)	15	= Total Cove	er	Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
woody vine stratum (Plot size. 30 Peet) 1.			·	Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
3				Woody vines - All woody vines greater than 3.28 ft in height.
	0	= Total Cove	er	Hydrophytic Vegetation Present? Yes NoX
Remarks: (Explain alternative procedures here or in a separat Remnant corn	e report.)			

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Profile Desci	ription: (Describe to t	he depth nee	ded to document th	e indicator	or confirm	the abser	nce of indicators.)			
(inches)	Color (moist)	0/2	Color (moist)	%	Type ¹		Texture	Remarks		
		100		/0	туре	LUC		Relliains		
12-14	10YR 3/2	70	10VR 4/3	30		M				
12-17	10110.0/2		1011(4/5			101				
		· ·								
		· ·								
	-	· ·					· · · · · · · · · · · · · · · · · · ·			
	-	· ·					· · · · · · · · · · · · · · · · · · ·			
	-	· ·					· · · · · · · · · · · · · · · · · · ·			
		· ·								
		· ·								
		· ·								
¹ Type: C=Cor	ncentration, D=Depletio	on, RM=Reduc	ced Matrix, MS=Masl	ked Sand Gra	ains.		² Location: PL	Pore Lining, M=Matrix.		
Hydric Soil I	ndicators:						Indicators for Pro	blematic Hydric Soils ³ :		
Histosol	(A1)		Polyvalue Belov	V Surface (St	B) (LRR R,	MLRA 149	B) 2 cm Muck (A	10) (LRR K, L, MLRA 149B)		
Histic Ep	pipedon (A2)		Thin Dark Surfa	ce (S9) (LR	R R, MLRA	A 149B)	Coast Prairie	Redox (A16) (LRR K, L, R)		
Black Hi	stic (A3)		Loamy Mucky M	lineral (F1)	(LRR K, L)		5 cm Mucky F	eat or Peat (S3) (LRR K, L, F	र)	
Hydroge	n Sulfide (A4)		Loamy Gleyed N	Aatrix (F2)			Dark Surface	(S7) (LRR K, L)		
Stratified	l Layers (A5)		Depleted Matrix	(F3)			Polyvalue Bel	ow Surface (S8) (LRR K, L)		
Depleted	Below Dark Surface (A	A11)	Redox Dark Sur	face (F6)			Thin Dark Sur	face (S9) (LRR K, L)		
Thick Da	ark Surface (A12)		Depleted Dark S	Surface (F7)			Iron-Mangane	se Masses (F12) (LRR K, L,	, R)	
Sandy M	lucky Mineral (S1)		Redox Depressi	ons (F8)			Piedmont Floodplain Soils (F19) (MLRA 149B)			
Sandy G	leyed Matrix (S4)						Mesic Spodic	(TA6) (MLRA 144A, 145, 149	9B)	
Sandy R	edox (S5)						Red Parent M	aterial (F21)		
Stripped	Matrix (S6)						Very Shallow Dark Surface (TF12)			
Dark Su	rface (S7) (LRR R, MI	LRA 149B)					Other (Explain	in Remarks)		
³ Indicators of	hydrophytic vegetation	and wetland	hydrology must be p	resent unles	s disturbed	l or probler	natic			
Bestrictive I										
Restrictive L	ayer (if observed):	lov								
Denth (in	ches).	14					Hydric Soil Present?	Ves No X		
									<u> </u>	
Remarks:										

Project/Site:	16153 Heritage Wind	City	y/County: To	wn of Barre, Orle	eans County	Sampling Date:	04/19/2022
Applicant/Owner:	Herita	ge Wind, LLC	· · <u> </u>	Sta	ate: New York	Sampling Point:	66W04-01W
Investigator(s):	JB Ba	Sec	ction, Township, R	ange:	Tov	wn of Barre	
Landform (hillslope, terrace	, etc): Depression	Local relief	(concave, convex,	none):	concave	Slope	e (%): 0-5
Subregion (LRR or MLRA):	LRR L	Lat:	43.14541333	Long:	-78.172545	5 Datur	n: WGS 1984
Soil Map Unit Name:		Palms muck			NWI classificatio	on:	Pf
Are climatic / hydrologic cor	iditions on the site typical for this	time of year? Yes	s <u>X</u> No	(If no,	explain in Remarks	s.)	
Are Vegetation, S	Soil, or Hydrology	significantly dis	turbed?	Are "Normal Circ	cumstances" prese	nt? Yes	XNo
Are Vegetation, S	Soil, or Hydrology	naturally proble	ematic?	(If needed, expla	ain any answers in	Remarks.)	
SUMMARY OF FINDI	NGS - Attach site map sh	nowing samplin	ng point locat	ions, transec	ts, important f	features, etc.	
Hydrophytic Vegetation P	resent? Yes X	No	Is the San	pled Area			
Hydric Soil Present?	Yes X	No	within a W	/etland?	Yes X	No	
Wetland Hydrology Prese	ent? Yes X	No	If yes, opti	onal Wetland Site	e ID:	66W4	_
Remarks: (Explain alterna Low spot in	ative procedures here or in a sep ag field holding water.	arate report.)					
HYDROLOGY							
Wetland Hydrology Indi	cators:						
Primary Indicators (minim	num of one required; check all the	t apply)			Secondary Indica	tors (minimum of	two required)
X Surface Water (A1)	,	Water-Stained Lea	aves (B9)		Surface Soil	Cracks (B6)	
X High Water Table (A	2)	Aquatic Fauna (B	13)		Drainage Pa	atterns (B10)	
X Saturation (A3)		Marl Deposits (B1	5)		Moss Trim L	ines (B16)	
Water Marks (B1)		Hydrogen Sulfide	Odor (C1)		Dry-Season	Water Table (C2)	
Sediment Deposits (B2)	Oxidized Rhizospl	heres on Living Ro	ots (C3)	Crayfish Bur	rows (C8)	
Drift Deposits (B3)		Presence of Redu	iced Iron (C4)		Saturation V	isible on Aerial Im	agery (C9)
X Algal Mat or Crust (E	34)	Recent Iron Redu	ction in Tilled Soils	(C6)	Stunted or S	Stressed Plants (D	1)
X Iron Deposits (B5)	<u></u>	Thin Muck Surface	e (C7)		Geomorphic	Position (D2)	
Inundation Visible or	n Aerial Imagery (B7)	Other (Explain in F	Remarks)		Shallow Aqu	iitard (D3)	
Sparsely Vegetated	Concave Surface (B8)				Microtopogra	aphic Relief (D4)	
					X FAC-Neutral	Test (D5)	
Field Observations:							
Surface Water Present?	Yes X No	Depth (inches):	4				
Water Table Present?	Yes X No	Depth (inches):	6				
Saturation Present?	Yes X No	Depth (inches):	0	Wetland Hvd	rology Present?	Yes X	No
(includes capillary fringe)							
				<u> </u>			
Describe Recorded Data	(stream gauge, monitoring well, a	aerial photos, previo	ous inspections), if	available:			
Remarks:							
Standing wa	ater collecting in lower areas						

Sampling Point: 66W04-01W

	Absolute	Dominant	Indicator	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)
Tree Stratum (Plot size:	% Cover	Species?	Status	Total Number of Dominant Species Across All Strata:1 (B)
2 3 4 5.				Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0 (A/B)
6	0	= Total Cove	er	Total % Cover of: Multiply by: OBL species 0 x 1 =
Saping/Snrub Stratum (Plot size:) 1.				FACW species20 $x 2 =$ 40FAC species0 $x 3 =$ 0FACU species0 $x 4 =$ 0UPL species0 $x 5 =$ 0Column Totals:20(A)40
5	·			Prevalence Index = $B/A = 2.0$ (B)
7	0	_ = Total Cove	FACW	Hydrophytic Vegetation Indicators: X 1 - Rapid Test for Hydrophytic Vegetation X 2 - Dominance Test is >50%
2				X 3 - Prevalence Index ≤3.01 4 - Morphological Adaptations1 (Provide supporting Problematic Hydrophytic Vegetation1 (Explain)
5 6 7				¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
9 10.	·		·	Definitions of Vegetation Strata
11 12				Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
Woody Vine Stratum (Plot size: 30 Feet)	20	= Total Cove	er	Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
1 2 3.			·	size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in
4.	0	= Total Cove	er	height. Hydrophytic Vegetation
Remarks: (Explain alternative procedures here or in a separate Remnant corn present	report.)			

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-	Matrix		Redo	k Features				
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-3	10YR 2/1	100					Muck	
3-18	10YR 3/1	98	7.5YR 4/4	2	С	Μ	Silt Loam	
		·						
		·						
¹ Type: C=Con	centration, D=Depletio	on, RM=Redu	uced Matrix, MS=Mas	ked Sand Gr	ains.		² Location: PL	=Pore Lining, M=Matrix.
Hydric Soil In	ndicators:						Indicators for Pro	blematic Hydric Soils ³ :
Histosol ((A1)		Polyvalue Below	v Surface (S	8) (LRR R,	MLRA 1498	3) X 2 cm Muck (A	10) (LRR K, L, MLRA 149B)
Histic Epi	ipedon (A2)		Thin Dark Surfa	ce (S9) (LR	R R, MLRA	(149B)	Coast Prairie	Redox (A16) (LRR K, L, R)
Black His	stic (A3)		Loamy Mucky N	lineral (F1)	(LRR K, L)		5 cm Mucky F	Peat or Peat (S3) (LRR K, L, R)
Hydroger	n Sulfide (A4)		Loamy Gleyed I	Matrix (F2)			Dark Surface	(S7) (LRR K, L)
Stratified	Layers (A5)		Depleted Matrix	(F3)			Polyvalue Bel	ow Surface (S8) (LRR K, L)
Depleted	Below Dark Surface (A	A11)	X Redox Dark Su	face (F6)			Thin Dark Su	face (S9) (LRR K, L)
Thick Da	rk Surface (A12)		Depleted Dark S	Surface (F7)			Iron-Mangane	ese Masses (F12) (LRR K, L, R)
Sandy M	ucky Mineral (S1)		Redox Depress	ions (F8)			Piedmont Flo	odplain Soils (F19) (MLRA 149B)
Sandy Gl	leyed Matrix (S4)						Mesic Spodic	(TA6) (MLRA 144A, 145, 149B)
Sandy Re	edox (S5)						Red Parent M	laterial (F21)
Stripped	Matrix (S6)						Very Shallow	Dark Surface (TF12)
Dark Sur	face (S7) (LRR R, MI	_RA 149B)					Other (Explain	n in Remarks)
			ي من ما الم من يمم بالي ما م ما م ما م	resent. unles	ss disturhed	or problem	1 ¹	
³ Indicators of I	hydrophytic vegetation	and wetland	a nyarology must be p			or problem	atic.	
³ Indicators of I	hydrophytic vegetation ayer (if observed):	and wetland	a nyarology must be p				atic.	
³ Indicators of I Restrictive La Type:	hydrophytic vegetation ayer (if observed):	and wetland	a nyarology must be p				auc.	
³ Indicators of I Restrictive La Type: Depth (inc	hydrophytic vegetation ayer (if observed):	and wetland	a nyarology must be p				Auc. Hydric Soil Present?	Yes X No
³ Indicators of I Restrictive La Type: Depth (inc	hydrophytic vegetation ayer (if observed): ches):	and wetland	a nyarology must be p				Auc. Hydric Soil Present?	Yes X No
^a Indicators of I Restrictive La Type: Depth (inc Remarks:	hydrophytic vegetation ayer (if observed): ches):	and wetland	a nyarology must be p				Auc. Hydric Soil Present?	Yes X No
³ Indicators of I Restrictive La Type: Depth (inc Remarks:	hydrophytic vegetation ayer (if observed): ches):	and wetland	a nyarology must be p				Auc. Hydric Soil Present?	Yes X No
³ Indicators of I Restrictive La Type: Depth (inc Remarks:	hydrophytic vegetation ayer (if observed): ches):	and wetland	a nyarology must be p				Auc. Hydric Soil Present?	Yes X No
³ Indicators of I Restrictive La Type: Depth (inc Remarks:	hydrophytic vegetation ayer (if observed): ches):	and wetland	a nyarology must be p				Auc. Hydric Soil Present?	Yes <u>X</u> No
³ Indicators of I Restrictive La Type: Depth (inc Remarks:	hydrophytic vegetation ayer (if observed): ches):	and wetland	a nyarology must be p				Auc. Hydric Soil Present?	Yes <u>X</u> No
³ Indicators of I Restrictive La Type: Depth (inc Remarks:	hydrophytic vegetation ayer (if observed): ches):	and wetland					Auc. Hydric Soil Present?	Yes X No
³ Indicators of I Restrictive La Type: Depth (inc Remarks:	hydrophytic vegetation ayer (if observed): ches):	and wetland					Auc. Hydric Soil Present?	Yes X No
³ Indicators of I Restrictive La Type: Depth (inc Remarks:	hydrophytic vegetation ayer (if observed): ches):	and wetland					Hydric Soil Present?	Yes <u>X</u> No
³ Indicators of I Restrictive La Type: Depth (inc Remarks:	hydrophytic vegetation ayer (if observed): ches):	and wetland					Auc. Hydric Soil Present?	Yes <u>X</u> No

Project/Site:	16153	Heritage Wind	Citv/C	ounty: Town of B	arre Orleans County	Sampling Date:	04/19/2022
Applicant/Owner:		Heri	tage Wind, LLC	<u> </u>	State: New York	Sampling Point:	66W06-01U
Investigator(s):		JB BA	Sectio	n. Township, Range:	To	wn of Barre	
Landform (hillslope, terra	ace, etc):	Flat	Local relief (co	ncave, convex, none):	convex	Slope (%	6): 0-5
Subregion (LRR or MLR/	A):	LRR L	Lat:	43.14612 I	_ong: -78.17222	Datum:	WGS 1984
Soil Map Unit Name:	·		Bergen muck		NWI classification	on: N/.	A
Are climatic / hydrologic	conditions on the	e site typical for thi	is time of year? Yes	X No	(If no, explain in Remark	s.)	
Are Vegetation	, Soil	, or Hydrology	significantly disturb	ed? Are "No	prmal Circumstances" prese	ent? Yes X	No
Are Vegetation	, Soil	, or Hydrology	naturally problema	tic? (If need	led, explain any answers in	Remarks.)	
SUMMARY OF FIN	DINGS - Atta	ach site map s	showing sampling	point locations, t	ransects, important	features, etc.	
Hydrophytic Vegetation	n Present?	Yes	No X	Is the Sampled A	rea		
Hydric Soil Present?		Yes X	No	within a Wetland	? Yes	No X	
Wetland Hydrology Pre	esent?	Yes	No X	If yes, optional We	tland Site ID:		
, , ,							
Remarks: (Explain alte Active ag	ernative procedu griculture field, pl	res here or in a se anted with winter w	parate report.) wheat cover crop.				
HYDROLOGY							
Wetland Hydrology Ir	ndicators:						
Primary Indicators (min	nimum of one re	ouired: check all th	hat apply)		Secondary Indica	ators (minimum of two	required)
Surface Water (A	.1)	4	Water-Stained Leave	s (B9)	Surface Soi	I Cracks (B6)	<u> </u>
High Water Table	(A2)		Aquatic Fauna (B13)		Drainage Pa	atterns (B10)	
Saturation (A3)			Marl Deposits (B15)		Moss Trim L	ines (B16)	
Water Marks (B1))		Hydrogen Sulfide Od	or (C1)	Dry-Season	Water Table (C2)	
Sediment Deposit	its (B2)		Oxidized Rhizospher	es on Living Roots (C3)) Crayfish Bu	rrows (C8)	
Drift Deposits (B3	3)		Presence of Reduced	Iron (C4)	Saturation \	isible on Aerial Imag	ery (C9)
Algal Mat or Crus	st (B4)	_	Recent Iron Reductio	n in Tilled Soils (C6)	Stunted or S	Stressed Plants (D1)	
Iron Deposits (B5	5)	_	Thin Muck Surface (C	:7)	Geomorphic	Position (D2)	
Inundation Visible	e on Aerial Image	ery (B7)	Other (Explain in Rer	narks)	Shallow Aqu	uitard (D3)	
Sparsely Vegetate	ed Concave Sur	face (B8)			Microtopogr	aphic Relief (D4)	
					FAC-Neutra	l Test (D5)	
Field Observations:							
Surface Water Present	t? Yes	No X	Denth (inches):				
Water Table Present?	Yes		Depth (inches):				
Saturation Present?	Yes		Depth (inches):	Wetl	and Hydrology Present?	Yes	No X
(includes capillary fring	ae)	110					<u></u>
(5-7						
Describe Recorded Da	ata (stream gaug	je, monitoring well	, aerial photos, previous	inspections), if availab	le:		
Remarks:							

Sampling Point: 66W06-01U

				Dominance Test worksheet:
				Number of Dominant Species
	Absolute	Dominant	Indicator	That Are OBL, FACW, or FAC: 0 (A)
Tree Stratum (Plot size: 30 Feet)	% Cover	Species?	Status	
<u> </u>	<u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>			Total Number of Dominant
2			·	Species Across All Strata: 1 (B)
3			·	
3			·	Percent of Dominant Species
4	· ·		·	That Are OBL, FACW, or FAC: 0.0 (A/B)
5.			·	· · · · · · · · · · · · · · · · · · ·
6				Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
	0	_ = Total Cove	er	OBL species 0 x 1 = 0
Sapling/Shrub Stratum (Plot size: 15 Feet)				FACW species 0 x 2 = 0
1				FAC species 0 x 3 = 0
2.				FACU species $0 \times 4 = 0$
3.				$UPL species \qquad 90 \qquad x 5 = 450$
4.				$\begin{array}{c c} Column Totals: \\ \hline 0 \hline \hline 0 \\ \hline 0 $
5.				$\frac{90}{(A)} = \frac{450}{(B)}$
6.				Prevalence Index = B/A = 5.0
7	0	= Total Cove		Hydrophytic Vegetation Indicators:
Herb Stratum (Plot size: 5 Feet)				1 - Ranid Test for Hydrophytic Vegetation
1 Triticum costinum / Common wheat	00	Voc	NI	2 Dominance Test is >50%
	90	165		
2			·	$3 - Prevalence index \leq 3.0^{\circ}$
3.				4 - Morphological Adaptations' (Provide supporting
4				Problematic Hydrophytic Vegetation ¹ (Explain)
5				
6				¹ Indicators of hydric soil and wetland hydrology must
7				be present, unless disturbed or problematic.
8				
9.				Definitions of Vegetation Strata
10.				
11.				Tree - Woody plants 3 in. (7.6 cm) or more in diameter at
12			·	breast height (DBH), regardless of height.
	90	= Total Cove	er	Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall
Woody Vine Stratum (Plot size: 30 Feet)				
1				Herb - All herbaceous (non-woody) plants, regardless of
2.				size, and woody plants less than 5.26 it tail.
3.				Woody vines - All woody vines greater than 3.28 ft in
4.				neigni.
		= Total Cove	er	
	0			
	0	-		Hydrophytic
	0	_		Hydrophytic Vegetation

0	~		
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Profile Desc Depth	cription: (Describe to t Matrix	he depth nee	eded to document t Redo	he indicator x Features	or confirm	the absei	nce of indicators.)	
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-9	10YR 3/1	100	· · ·				Clay Loam	
9-18	10YR 2/1	100					Silt Loam	
					<u> </u>			
	<u></u>	. <u> </u>			<u> </u>			
¹ Type: C=Co	ncentration, D=Depletio	n, RM=Redu	ced Matrix, MS=Mas	ked Sand Gr	rains.		² Location	: PL=Pore Lining, M=Matrix.
Hydric Soil	Indicators:						Indicators for	Problematic Hydric Soils ³ :
X Histoso	I (A1)		Polyvalue Belov	w Surface (S	8) (LRR R,	MLRA 149	9B) 2 cm Muc	ck (A10) (LRR K, L, MLRA 149B)
Histic E	pipedon (A2)		Thin Dark Surfa	ace (S9) (LF	RR R, MLRA	A 149B)	Coast Pra	airie Redox (A16) (LRR K, L, R)
Black H	listic (A3)		Loamy Mucky N	Mineral (F1)	(LRR K, L)		5 cm Muc	cky Peat or Peat (S3) (LRR K, L, R)
Hydrog	en Sulfide (A4)		Loamy Gleyed	Matrix (F2)			Dark Surf	face (S7) (LRR K, L)
Stratifie	d Layers (A5)		Depleted Matrix	(F3)			Polyvalue	e Below Surface (S8) (LRR K, L)
Deplete	d Below Dark Surface (A	A11)	Redox Dark Su	rface (F6)			Thin Dark	Surface (S9) (LRR K, L)
Thick D	ark Surface (A12)		Depleted Dark	Surface (F7)			Iron-Man	ganese Masses (F12) (LRR K, L, R)
Sandy I	Mucky Mineral (S1)		Redox Depress	sions (F8)			Piedmont	t Floodplain Soils (F19) (MLRA 149B)
Sandy (Gleyed Matrix (S4)						Mesic Sp	odic (TA6) (MLRA 144A, 145, 149B)
Sandy I	Redox (S5)						Red Pare	ent Material (F21)
Stripped	d Matrix (S6)						Very Sha	llow Dark Surface (TF12)
Dark Su	urface (S7) (LRR R, MI	_RA 149B)					Other (Ex	plain in Remarks)
.								
°Indicators o	f hydrophytic vegetation	and wetland	hydrology must be p	present, unles	ss disturbed	l or probler	natic.	
Restrictive	Layer (if observed):							
Туре:								
Depth (ir	nches):						Hydric Soil Prese	ent? Yes X No
Remarks [.]								
Remarks.	Soils are adjacent to N	WI palustrine	farmed and consist	of Bergen Mi	uck. Area wa	as likely hi	storically drained to s	support agriculture
				-				

Project/Site:	16153 Heritage Wind	City/County	Town of Barre, C	Orleans County	Sampling Date:	04/19/2022
Applicant/Owner:	Heritage	Wind, LLC	·	State: New York	Sampling Point:	66W06-01W
Investigator(s):	JB BA	Section, Tov	vnship, Range:	Τον	wn of Barre	
Landform (hillslope, terrace, et	c): Depression	Local relief (concave	, convex, none):	concave	Slope ((%): 0-5
Subregion (LRR or MLRA):	LRR L	Lat: 43.145	41333 Long:	-78.172545	5 Datum:	WGS 1984
Soil Map Unit Name:	E	Bergen muck		NWI classificatio	on: I	Pf
Are climatic / hydrologic condit	ions on the site typical for this tin	ne of year? Yes X	No (If r	no, explain in Remark	s.)	
Are Vegetation, Soil	, or Hydrology	significantly disturbed?	Are "Normal (Circumstances" prese	nt? Yes X	No
Are Vegetation X, Soil	, or Hydrology	naturally problematic?	(If needed, ex	plain any answers in	Remarks.)	
SUMMARY OF FINDING	3S - Attach site map sho	wing sampling poir	nt locations, trans	ects, important f	features, etc.	
Hydrophytic Vegetation Pres	sent? Yes X	No Is	s the Sampled Area			
Hydric Soil Present?	Yes X	No	vithin a Wetland?	Yes X	No	
Wetland Hydrology Present?	Yes X	No	yes, optional Wetland	Site ID:	66W06	
Remarks: (Explain alternativ low spot in ag f	e procedures here or in a separa ield holding water. stressed and	ate report.) stunted crops in areas ho	lding water.			
HYDROLOGY						
Wetland Hydrology Indicat	tors:					
Primary Indicators (minimum	of one required: check all that a	unnly)		Secondary Indica	ators (minimum of tw	vo required)
X Surface Water (A1)	V	Vater-Stained Leaves (B9)	Surface Soil	Cracks (B6)	oroquilouy
X High Water Table (A2)	۔ م	quatic Fauna (B13)	/	Drainage Pa	atterns (B10)	
X Saturation (A3)	N	farl Deposits (B15)		Moss Trim L	ines (B16)	
Water Marks (B1)	— _F	lydrogen Sulfide Odor (C	1)	Dry-Season	Water Table (C2)	
Sediment Deposits (B2)	xidized Rhizospheres on	Living Roots (C3)	Crayfish Bur	rrows (C8)	
Drift Deposits (B3)	P	resence of Reduced Iron	(C4)	Saturation V	isible on Aerial Imag	gery (C9)
X Algal Mat or Crust (B4)	F	Recent Iron Reduction in T	illed Soils (C6)	X Stunted or S	Stressed Plants (D1)	1
Iron Deposits (B5)	<u> </u>	hin Muck Surface (C7)		Geomorphic	Position (D2)	
Inundation Visible on A	erial Imagery (B7) C	Other (Explain in Remarks)	Shallow Aqu	uitard (D3)	
Sparsely Vegetated Co	ncave Surface (B8)			Microtopogra	aphic Relief (D4)	
				FAC-Neutral	l Test (D5)	
Field Observations:						
Surface Water Present?	Yes X No	Depth (inches): 4	Ļ			
Water Table Present?	Yes X No	Depth (inches): 6	3			
Saturation Present?	Yes X No	Depth (inches):	Wetland H	ydrology Present?	Yes X	No
(includes capillary fringe)						
Describe Recorded Data (sti	ream gauge, monitoring well, aer	ial photos, previous inspe	ections), if available:			
Remarks: Standing water	in lower areas					

Sampling Point: 66W06-01W

	Absolute	Dominant	Indicator	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)
Tree Stratum (Plot size:	% Cover	Species?	Status	Total Number of Dominant Species Across All Strata: 2 (B)
2 3				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 50.0 (A/B)
6 7				Prevalence Index worksheet: Total % Cover of: Multiply by:
Sapling/Shruh Stratum (Plot size: 15 Feet)	0	= Total Cove	r	OBL species 0 x1 = 0
1				FACW species 15 $x 2 = 30$ FAC species 0 $x 3 = 0$
2				FACU species 0 x 4 = 0
3 4				UPL species $60 \times 5 = 300$
5				Column lotais: <u>75</u> (A) <u>330</u> (B)
6				Prevalence Index = B/A =4.4
··	0	= Total Cove	r	Hydrophytic Vegetation Indicators:
Herb Stratum (Plot size: 5 Feet)				1 - Rapid Test for Hydrophytic Vegetation
Triticum aestivum / Common wheat Declaria arrundingges / Decd general grade Declaria arrundingges / Decd general grade	60	Yes		2 - Dominance Test is >50%
 2. <u>Prialans arunumacea / Reeu canarygrass, Reeu canary gras</u> 3. 	15	165	FACW	4 - Morphological Adaptations ¹ (Provide supporting
4.				X Problematic Hydrophytic Vegetation ¹ (Explain)
5				
6 7			. <u> </u>	¹ Indicators of hydric soil and wetland hydrology must be present unless disturbed or problematic
8				
9				Definitions of Vegetation Strata
10 11				Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
12	75	= Total Cove	r	Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
1				Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
3.				Woody vines - All woody vines greater than 3.28 ft in height.
4	0	= Total Cove		
		_		Hydrophytic Vegetation Present? Yes X No
Remarks: (Explain alternative procedures here or in a separate	report.)			1
Problematic vegetation. Wetland occurs in active a	igriculture f	ield planted wi	th cover crop	b. Planted vegetation occurring within the wetland is stunted

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Profile Descr	ription: (Describe to t	he depth nee	ded to document th	e indicator	or confirm	the absend	ce of indicators.)
(inchoo)		0/	Color (moint)		Tunol	1 0 0 2	Touturo
		100		70	туре	LUC	Muck Remarks
3 18	10VP 2/1	100			·		Silt Loam
3-10	101R 2/1	100		. <u> </u>			Siit Loani
				. <u> </u>			<u></u>
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¹ Type: C=Con	centration, D=Depletic	n, RM=Reduc	ced Matrix, MS=Mask	ed Sand Gra	ains.		² Location: PL=Pore Lining, M=Matrix.
Hydric Soil Ir	ndicators:						Indicators for Problematic Hydric Soils ³ :
X Histosol	(A1)	-	Polyvalue Below	/ Surface (S8	B) (LRR R,	MLRA 149E	B) X 2 cm Muck (A10) (LRR K, L, MLRA 149B)
Histic Ep	ipedon (A2)	-	Thin Dark Surface	ce (S9) (LR	R R, MLRA	(149B)	Coast Prairie Redox (A16) (LRR K, L, R)
Black His	stic (A3)	-	Loamy Mucky M	lineral (F1) (LRR K, L)		5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
Hydroge	n Sulfide (A4)	-	Loamy Gleyed N	/latrix (F2)			Dark Surface (S7) (LRR K, L)
Stratified	Layers (A5)	-	Depleted Matrix	(F3)			Polyvalue Below Surface (S8) (LRR K, L)
Depleted	Below Dark Surface (A11)	Redox Dark Sur	face (F6)			Thin Dark Surface (S9) (LRR K, L)
Thick Da	rk Surface (A12)	-	Depleted Dark S	Surface (F7)			Iron-Manganese Masses (F12) (LRR K, L, R)
Sandy M	ucky Mineral (S1)	-	Redox Depressi	ons (F8)			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	Matrix (S6)						Very Shallow Dark Surface (TF12)
Dark Sur	face (S7) (LRR R, MI	_RA 149B)					Other (Explain in Remarks)
³ Indicators of	hydrophytic vegetation	and wetland	hydrology must be pr	resent, unles	s disturbed	or problema	atic.
Restrictive L	ayer (if observed):						
Туре:							
Depth (ind	ches):						Hydric Soil Present? Yes X No
Remarks:							

Applicant/Owner:	16153 F	Heritage Wind	Citv/Cou	inty. Town o	of Barre Orlea	ns County	Sampling Date:	04/19/2022		
		Herita	ae Wind, LLC	<u> </u>	State	e: New York	Sampling Point:	66W07-01U		
Investigator(s):		JB BA	Section	Township, Range	e:	To	wn of Barre			
Landform (hillslope, terr	race, etc):	Flat	Local relief (cond	cave, convex, non	e):	none	Slope	e (%): 0-5		
Subregion (LRR or MLF	RA):	LRR L	Lat: 4	3.147325	Long:	-78.16563	B Datur	m: WGS 1984		
Soil Map Unit Name:		С	anandaigua soils			NWI classification	on:	N/A		
Are climatic / hydrologic	conditions on the	site typical for this f	time of year? Yes	X No	(If no, e	kplain in Remark	s.)			
Are Vegetation	, Soil,	, or Hydrology	significantly disturbe	ed? Are	"Normal Circu	mstances" prese	ent? Yes	X No		
Are Vegetation	_, Soil,	, or Hydrology	naturally problemati	c? (If n	eeded, explair	any answers in	Remarks.)			
SUMMARY OF FIN	NDINGS - Atta	ch site map sh	owing sampling p	point location	s, transects	s, important	features, etc.			
Hydrophytic Vegetation	on Present?	Yes	No X	Is the Sample	d Area					
Hydric Soil Present?		Yes	No X	within a Wetla	nd?	Yes	No X	_		
Wetland Hydrology P	'resent?	Yes	No <u>X</u>	If yes, optional	Wetland Site I	D:				
Remarks: (Explain alt Adjacen refusal.	ternative procedur it upland between If layer continues	res here or in a sepa forest edge and agr to 14 inches then sc	irate report.) icultural field. Depleted bils would pass as deple	matrix was only o eted matrix	bserved 4 inch	es deep from 8-	12 before there wa	is a gravel		
HYDROLOGY										
Wetland Hydrology	Indicators:									
Primary Indicators (m	ninimum of one rea	ouired: check all tha	t apply)		:	Secondary Indica	ators (minimum of	two required)		
Surface Water (/	A1)	· · · · ·	Water-Stained Leaves	(B9)		Surface Soi	I Cracks (B6)	• • •		
High Water Table	e (A2)	_	Aquatic Fauna (B13)		-	Drainage Pa	atterns (B10)			
Saturation (A3)			Marl Deposits (B15)		-	Moss Trim L	ines (B16)			
Water Marks (B*	1)	_	Hydrogen Sulfide Odor	r (C1)		Dry-Season Water Table (C2)				
Sediment Depos	sits (B2)		Oxidized Rhizospheres	s on Living Roots	(C3)	Crayfish Bu	rrows (C8)			
Drift Deposits (B	3)	—	Presence of Reduced	Iron (C4)		Saturation \	/isible on Aerial Im	agery (C9)		
Algal Mat or Cru	IST (B4)	—	Recent Iron Reduction	IN TILLED SOILS (Co	·)	Stunted or s	Stressed Plants (D	1)		
Inundation Visib	o) Je on Aerial Image	erv (B7)	Other (Explain in Rem	() arks)	-	Shallow Ag	uitard (D3)			
	ie on nenai inage	, (DT)			-	Microtopogr	aphic Relief (D4)			
Sparsely Vegeta	ited Concave Surf	ace (B8)					· · · · · / /			
Sparsely Vegeta	ated Concave Surf	tace (B8)			-	FAC-Neutra	l Test (D5)			
Sparsely Vegeta	ated Concave Sur	tace (B8)				FAC-Neutra	l Test (D5)			
Field Observations:	ated Concave Surl				-	FAC-Neutra	l Test (D5)			
Field Observations: Surface Water Preservations	nt? Yes		Depth (inches):		-	FAC-Neutra	l Test (D5)			
Field Observations: Surface Water Present? Saturation Present?	nt? Yes	No X No X	Depth (inches): Depth (inches):			FAC-Neutra	I Test (D5)			
Field Observations: Surface Water Present? Saturation Present?	nt? Yes Yes	No X No X No X No X	Depth (inches): Depth (inches): Depth (inches):	v	Vetland Hydro	FAC-Neutra	I Test (D5) Yes	No <u>X</u>		
Field Observations: Surface Water Present Water Table Present? Saturation Present? (includes capillary frim	ated Concave Surf nt? Yes ? Yes Yes Yes nge)	No X No X No X No X	Depth (inches): Depth (inches): Depth (inches):	w	Vetland Hydro	FAC-Neutra	I Test (D5) Yes	No <u>X</u>		
Field Observations: Surface Water Preservation Preservati	ated Concave Surf nt? Yes ? Yes Yes nge) Jata (stream gaug	nace (B8)	Depth (inches): Depth (inches): Depth (inches): erial photos, previous ir	v	Vetland Hydro	FAC-Neutra	I Test (D5) Yes	No <u>X</u>		
Field Observations: Surface Water Present? Saturation Present? (includes capillary frir Describe Recorded D	ated Concave Surf nt? Yes ? Yes Yes nge) Data (stream gaug	No X No X No X No X e, monitoring well, a	Depth (inches): Depth (inches): Depth (inches): erial photos, previous ir	nspections), if ava	Vetland Hydro	FAC-Neutra	I Test (D5) Yes	No X		
Field Observations: Surface Water Present? Saturation Present? (includes capillary frir Describe Recorded D	ated Concave Surf nt? Yes ? Yes Yes nge) Data (stream gaug	no X No X No X No X e, monitoring well, a	_ Depth (inches): Depth (inches): Depth (inches): erial photos, previous ir	nspections), if ava	Vetland Hydro	Iogy Present?	I Test (D5) Yes	No <u>X</u>		
Field Observations: Surface Water Present Water Table Present? Saturation Present? (includes capillary frir Describe Recorded D Remarks:	ated Concave Surf nt? Yes ? Yes Yes nge) Data (stream gaug	nace (B8)	Depth (inches): Depth (inches): Depth (inches): erial photos, previous ir	nspections), if ava	Vetland Hydro	FAC-Neutra	I Test (D5) Yes	No <u>X</u>		
Field Observations: Surface Water Preservation Preservation Present? Saturation Present? (includes capillary frir Describe Recorded D Remarks:	ated Concave Surf nt? Yes ? Yes Yes nge) Jata (stream gaug	nace (B8)	Depth (inches): Depth (inches): Depth (inches): erial photos, previous ir	nspections), if ava	Vetland Hydro	FAC-Neutra	I Test (D5) Yes	No <u>X</u>		
Field Observations: Surface Water Preservation Preservati	ated Concave Surf nt? Yes ? Yes Yes nge) Jata (stream gaug	nace (B8)	_ Depth (inches): Depth (inches): Depth (inches): erial photos, previous ir	nspections), if ava	Vetland Hydro	FAC-Neutra	Yes	No <u>X</u>		
Field Observations: Surface Water Present? Saturation Present? (includes capillary frir Describe Recorded D Remarks:	ated Concave Surf nt? Yes ? Yes Yes nge) Data (stream gaug	nace (B8)	Depth (inches): Depth (inches): Depth (inches): erial photos, previous ir	nspections), if ava	Vetland Hydro	Iogy Present?	Yes	No <u>X</u>		
Field Observations: Surface Water Present? Saturation Present? (includes capillary frir Describe Recorded D Remarks:	ated Concave Surf	nace (B8)	_ Depth (inches): Depth (inches): Depth (inches): erial photos, previous ir	nspections), if ava	Vetland Hydro	Iogy Present?	I Test (D5) Yes	No <u>X</u>		
Field Observations: Surface Water Preservation Present? Saturation Present? (includes capillary frir Describe Recorded D Remarks:	ated Concave Suri	nace (B8)	_ Depth (inches): Depth (inches): Depth (inches): erial photos, previous ir	nspections), if ava	Vetland Hydro	FAC-Neutra	I Test (D5) Yes	No <u>X</u>		
Field Observations: Surface Water Preservation Preservati	ated Concave Surf	nace (B8)	_ Depth (inches): Depth (inches): Depth (inches): erial photos, previous ir	nspections), if ava	Vetland Hydro	FAC-Neutra	I Test (D5) Yes	No <u>X</u>		
Field Observations: Surface Water Present? Saturation Present? (includes capillary frir Describe Recorded D Remarks:	ated Concave Suri	race (B8)	_ Depth (inches): Depth (inches): Depth (inches): erial photos, previous ir	nspections), if ava	Vetland Hydro	Iogy Present?	I Test (D5) Yes	No <u>X</u>		
Field Observations: Surface Water Present Water Table Present? Saturation Present? (includes capillary frir Describe Recorded D Remarks:	ated Concave Suri	race (B8)	Depth (inches):	nspections), if ava	Vetland Hydro	Iogy Present?	Yes	No <u>X</u>		
Field Observations: Surface Water Present? Saturation Present? (includes capillary frir Describe Recorded D Remarks:	ated Concave Suri	e, monitoring well, a	Depth (inches): Depth (inches): Depth (inches): erial photos, previous ir	nspections), if ava	Vetland Hydro	Iogy Present?	Yes	No <u>X</u>		
Field Observations: Surface Water Present? Saturation Present? (includes capillary frir Describe Recorded D Remarks:	ated Concave Suri	nace (B8)	Depth (inches): Depth (inches): Depth (inches): erial photos, previous ir	nspections), if ava	Vetland Hydro	Iogy Present?	Yes	No <u>X</u>		
Field Observations: Surface Water Presen Water Table Present? Saturation Present? (includes capillary frir Describe Recorded D Remarks:	ated Concave Suri	e, monitoring well, a	_ Depth (inches): Depth (inches): Depth (inches): erial photos, previous ir	nspections), if ava	Vetland Hydro	Iogy Present?	Yes	No <u>X</u>		
Field Observations: Surface Water Presen Water Table Present? Saturation Present? (includes capillary frir Describe Recorded D Remarks:	ated Concave Suri	nace (B8)	Depth (inches): Depth (inches): Depth (inches): erial photos, previous ir	nspections), if ava	Vetland Hydro	FAC-Neutra	Yes	No <u>X</u>		

Sampling Point: 66W07-01U

				Dominance Test worksheet: Number of Dominant Species
	Absolute	Dominant	Indicator	That Are OBL, FACW, or FAC: <u>3</u> (A)
Tree Stratum (Plot size: 30 Feet)	% Cover	Species?	Status	
1. Quercus alba / White oak	15	Yes	FACU	Iotal Number of Dominant
2. Fraxinus pennsylvanica / Green ash	10	Yes	FACW	Species Across All Strata: (B)
3. Juglans nigra / Black walnut	10	Yes	FACU	Percent of Dominant Species
4				That Are OBLEACW or EAC: 42.9 (A/B)
5				
6				Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
	35	= Total Cov	er	OBL species 0 x 1 = 0
Sapling/Shrub Stratum (Plot size: 15 Feet)	40		540	FACW species 10 x 2 = 20
1. Cornus racemosa / Gray dogwood	40	Yes	FAC	FAC species 50 x 3 = 150
2. Acer negundo / Boxelder, Box elder	5	NO	FAC	FACU species 40 x 4 =160
3				UPL species 0 x 5 = 0
4				Column Totals: 100 (A) 330 (B)
5				
7				Prevalence Index = B/A = 3.3
·	45	= Total Cov	er	Hydronhytic Vegetation Indicators:
Herb Stratum (Plot size: 5 Feet)				1 - Rapid Test for Hydrophytic Vegetation
1 Rubus allegheniensis / Allegheny blackberry	10	Yes	FACU	2 - Dominance Test is >50%
2 Alliaria petiolata / Garlic-mustard	5	Yes	FACU	$3 - Prevalence Index \leq 3.0^{1}$
3. Geum canadense / White avens	5	Yes	FAC	4 - Morphological Adaptations ¹ (Provide supporting
4.				Problematic Hydrophytic Vegetation ¹ (Explain)
5.			·	
6.				¹ Indicators of hydric soil and wetland hydrology must
7.				be present, unless disturbed or problematic.
8.				
9.				Definitions of Vegetation Strata
10				
11				Tree - Woody plants 3 in. (7.6 cm) or more in diameter at
12				breast height (DBH), regardless of height.
Woody Vine Stratum (Plot size: 30 Feet)	20	= Total Cov	er	Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
<u>1.</u>				Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
2				Woody vines - All woody vines greater than 3.28 ft in
3				height.
т	0	= Total Cov	er	
				Hydrophytic
				Vegetation
				Present? Yes No X
Remarks: (Explain alternative procedures here or in a separat	e report)			

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(inches) Color (moist) % Color (moist) % Type* Loc* Texture Remarks 0-8 10YR 3/2 100 10<		Depth Matrix Redox Features								
0-8 10YR 3/2 100	(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks	
8-12 10YR 4/2 90 10YR 4/6 10 C M Clay Loam 90 10YR 4/6 10 <	0-8	10YR 3/2	100					Silt 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 Hydric Soils*: Histos (A1) Polyvalue Below Surface (S8) (LRR R, MLRA 149B) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) Depleted Below Dark Surface (S7) S cm Mucky Peat or Peat (S3) (LRR K, L) Depleted Matrix (F2) Depleted Matrix (F2) Sandy Rick Surface (A11) Redox Depressions (F6) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Sandy Rick (S7) Wery Shallow Dark Surface (T12) Dark Surface (S7) Very Shallow Dark Surface (T12) Dark Surface (S7) Wery Shallow Dark Surface (T12) Dark Surface (S7) Wery Shallow Dark Surface (T12) Sandy Rick (S5) Redox Depressions (F8) Sandy Rick (S6) Present. Dark Surface (S7) Wery Shallow Dark Surface (T12) Dark Surface (S7) Wery Shallow Dark Surface (T12) Dark Surface (S7) Hydric Soil Present? Yery Shallow Dark Surface (T12) Yery Shallow Dark Surface (T12)	8-12	10YR 4/2	90	10YR 4/6	10	С	Μ	Clay Loam		
ype: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. "Location: PL=Pore Lining, M=Matrix. yrdic Soil Indicators: indicators for Problematic Hydric Soils?: Histos (A1) Polyvalue Below Surface (S8) (LRR R, MLRA 149B) 2 cm Muck (A10) (LRR K, L, MLRA 149B) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) 5 cm Mucky Paet or Peat (S3) (LRR R, L, R) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Dark Surface (S7) (LRR K, L) Startified Layers (A5) Depleted Matrix (F2) Dark Surface (S9) (LRR K, L) Depleted Below Dark Surface (A11) Redox Depressions (F6) Thin Dark Surface (S9) (LRR K, L) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Thon-Manganese Masses (F12) (LRR K, L) Sandy Mackx (S6) Redox Depressions (F6) Piedmont Floodplain Solis (F19) (MLRA 149 Sandy Redox (S5) Get Parent Matria (F21) Very Shallow Dark Surface (T12) Strifter Layer (if observed): Type: gravel refusal at 12 bu does not restrict wat Depleted matrix would qualify as a depleted matrix. Hydric Soil Present? Yes						·		<u> </u>		
ype: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. *Location: PL=Pore Lining, M=Matrix. ydric Soil Indicators: Indicators for Problematic Hydric Soils*: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, MLRA 1499) 2 cm Muck (A10) (LRR K, L, MR, A1499) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) Coast Problematic Hydric Soils*: Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) (LRR K, L) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Strattified Layers (A5) Depleted Matrix (F2) Dark Surface (S7) (LRR K, L) Strattified Layers (A5) Depleted Matrix (F3) Polyvalue Below Surface (F6) Strattified Layers (A5) Depleted Matrix (F3) Polyvalue Below Surface (S8) (LRR K, L) Sandy Gleyed Matrix (S4) Redox Dark Surface (F7) Trin Dark Surface (S7) (LRR K, L) Sandy Gleyed Matrix (S6) Predeved Matrix (S6) Red Parent Material (F21) Strattifted Layer (for Sourdace (S7) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) Indicators of problematic. 12 Yery Shallow Dark Surface (TF12) Other (Explain in Remarks) Startified Layer (for boserved): 12 Yery Shallow Dark Surface (TF12) Other (Explain in Remarks) Indicators of hydrophytic vegetation and wetl				-		·				
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) Coast Prairie Redox (A16) (LRR K, L, R) Histosol (A2) Thin Dark Surface (S9) (LRR R, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Stratified Layers (A5) Depleted Matrix (F2) Dark Surface (S7) (LRR K, L) Thick Dark Surface (A11) Redox Dark Surface (F7) Tinin Dark Surface (S9) (LRR K, L) Stratified Layers (A5) Depleted Dark Surface (F7) Tinin Dark Surface (S9) (LRR K, L) Sandy Mucky Mineral (S1) Redox Dark Surface (F7) Tino Dark Surface (S9) (LRR K, L) Stardy Redox (S5) Strateged Matrix (S4) Meaic Spodic (TA6) (MLRA 144A, 145, 145 Sandy Redox (S5) Strateged Matrix (S4) Other (Explain in Remarks) Strateged Matrix (S4) The Present? Yes										
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	Black H	listic (A3)		Loamy Mucky M	/lineral (F1)	(LRR K, L)		5 cm Muck	y Peat or Peat (S	3) (LRR K, L, R)
Stratified Layers (A5) Depleted Matrix (F3) Polyvalue Below Surface (S8) (LRR K, L) Depleted Below Dark Surface (A11) Redox Dark Surface (F6) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Depleted Dark Surface (F7) Iron-Manganese Masses (F12) (LRR K, L, L) Sandy Mucky Mineral (S1) Redox Depressions (F8) Piedmont Floodplain Soils (F19) (MLRA 149 Sandy Gleyed Matrix (S4) Mesic Spodic (TA6) (MLRA 144A, 145, 149 Sandy Redox (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) ottactors of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. estrictive Layer (if observed): Type: gravel refusal at 12 but does not restrict wat Depth (inches): 12 Hydric Soil Present? Yes No X emarks: Auger refusal at 12" due to gravel. If second soil layer continues another 2 inches it would qualify as a depleted matrix.	Hydrog	en Sulfide (A4)		Loamy Gleyed	Matrix (F2)			Dark Surfa	ce (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, Sandy Mucky Mineral (S1) Redox Depressions (F8) Piedmont Floodplain Soils (F19) (MLRA 149 Sandy Gleyed Matrix (S4) Mesic Spodic (TA6) (MLRA 144A, 145, 149 Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. estrictive Layer (if observed): 12 Type: gravel refusal at 12 but does not restrict wat Depth (inches): Depth (inches): 12 emarks: Auger refusal at 12" due to gravel. If second soil layer continues another 2 inches it would qualify as a depleted matrix.	Stratifie	d Layers (A5)		Depleted Matrix	(F3)			Polyvalue E	Below Surface (Sa	3) (LRR K, L)
	Deplete	ed Below Dark Surface ((A11)	Redox Dark Su	rface (F6)			Thin Dark S	Surface (S9) (LR	R K, L)
Sandy Mucky Mineral (S1) Redox Depressions (F8) Piedmont Floodplain Soils (F19) (MLRA 149	Thick D	ark Surface (A12)		Depleted Dark	Surface (F7)			Iron-Manga	inese Masses (F	12) (LRR K, L, R
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Salidy Redox (S3)	Sandy	Bieyeu Maliix (54)						Niesic Spoo	Matorial (E21)	144A, 145, 149E
	Sanuy	d Matrix (S6)						Very Shallo	w Dark Surface (TE12)
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	Indicators o	Auger refusal at 12" du	LRA 149B) an and wetlan bes not restri 12 ue to gravel.	d hydrology must be p	ntinues anot	her 2 inches	or probler	natic. Hydric Soil Presen Jualify as a depleted m	t? Yes	No <u>X</u>
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Applicant/Owner: Heritage Wind, LLC State: New York Sampling Data Investigator(s): JB BA Section, Township, Range: Town of Barre Landform (hillslope, terrace, etc): Lowland Local rolicif (concerve, convex, nono); Concerve, convex, nono);	04/19/2022
Investigator(s): JB BA Section, Township, Range: Town of Barre	: 66W07-01W
Landform (hillslone terrace atc): Lowland Local roliof (concerve concerve concerve Co	
במותוטוווו (וווווסוטףב, ובוומנב, בונג). בטיאמות בטנמו זבוובו (נטוונמעב, נטוועבא, ווטווב). נטוונמעפ סוט	pe (%): 0-5
Subregion (LRR or MLRA): LRR L Lat: 43.14714667 Long: -78.16555 Dat	um: WGS 1984
Soil Map Unit Name: Canandaigua soils NWI classification:	N/A
Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No (If no, explain in Remarks.)	
Are Vegetation, Soil, or Hydrologysignificantly disturbed? Are "Normal Circumstances" present? Yes	X No
Are Vegetation, Soil, or Hydrologynaturally problematic? (If needed, explain any answers in Remarks.)	
SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc	
Hydrophytic Vegetation Present? Yes X No Is the Sampled Area	
Hydric Soil Present? Yes X No within a Wetland? Yes X No	
Wetland Hydrology Present? Yes X No If yes, optional Wetland Site ID: 66W07	
Remarks: (Explain alternative procedures here or in a separate report.) forested wetland complex. depressions in landscape are holding surface water.	
HYDROLOGY	
Wetland Hydrology Indicators:	
Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (minimum of	of two required)
X Surface Water (A1) X Water-Stained Leaves (B9) Surface Soil Cracks (B6)	
X High Water Table (A2) Aquatic Fauna (B13) X Drainage Patterns (B10)	
X Saturation (A3) Marl Deposits (B15) Moss Trim Lines (B16)	
Water Marks (B1) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2	<u>2)</u>
Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Crayfish Burrows (C8)	
Drift Deposits (B3) Presence of Reduced Iron (C4) Saturation Visible on Aerial I	magery (C9)
Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1)
X Iron Deposits (B5) Iron Muck Surface (C7) X Geomorphic Position (D2) Invertee (D2) Other (Evalue in Remarks) Shellow Against (D2)	
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Shallow Aquitard (D3)	`
Sparsely vegetated concave surface (B6))
Field Observations:	
Surface Water Present? Yes X No Depth (inches): 2	
Water Table Present? Yes X No Depth (inches): 2	
Saturation Present? Yes X No Depth (inches): 0 Wetland Hydrology Present? Yes X	No
(includes capillary fringe)	
Describe Recorded Data (stream gauge monitoring well aerial photos previous inspections) if available	
Free (and and a first of the second seco	
Remarks:	

Sampling Point: 66W07-01W

	Absolute	Dominant	Indicator	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: 6 (A)
Tree Stratum (Plot size: 30 Feet)	% Cover	Species?	Status	
1. Quercus bicolor / Swamp white oak	40	Yes	FACW	Total Number of Dominant
2. Acer rubrum / Red maple	25	Yes	FAC	Species Across All Strata: 7 (B)
3. Ulmus americana / American elm	10	No	FACW	
4.				Percent of Dominant Species
5.				That Are OBL, FACW, or FAC: <u>85.7</u> (A/B)
6.				Brovalanco Indox workshoot
7.				Total % Cover of: Multiply by:
	75	= Total Cove	r	$\frac{1}{0} \frac{1}{1} \frac{1}$
Sapling/Shrub Stratum (Plot size: 15 Feet)		_		FACW species $55 \times 2 = 110$
1. Cornus racemosa / Gray dogwood	30	Yes	FAC	FAC species $75 \times 3 = 225$
2. Rhamnus cathartica / European buckthorn	10	Yes	FAC	FACU species $0 \times 4 = 0$
3.				$\frac{1}{1} \frac{1}{1} \frac{1}$
4.				Column Totals: 135 (A) 360 (B)
5.				
6.				Prevalence Index = $B/A = 2.67$
7				
	40	= Total Cove	er	Hydrophytic Vegetation Indicators:
Herb Stratum (Plot size: 5 Feet)				1 - Rapid Test for Hydrophytic Vegetation
1. Geum canadense / White avens	10	Yes	FAC	X 2 - Dominance Test is >50%
2. Phalaris arundinacea / Reed canarygrass, Reed canary gras	5	Yes	FACW	X 3 - Prevalence Index ≤3.0 ¹
3. Potentilla norvegica / Norwegian cinquefoil, Norwegian or rou	5	Yes		4 - Morphological Adaptations ¹ (Provide supporting
4				Problematic Hydrophytic Vegetation ¹ (Explain)
5.				_
6				¹ Indicators of hydric soil and wetland hydrology must
7				be present, unless disturbed or problematic.
8				
9				Definitions of Vegetation Strata
10				
11				Tree - Woody plants 3 in. (7.6 cm) or more in diameter at
12				bleast height (DBH), regardless of height.
Woody Vine Stratum (Plot size: 30 Feet)	20	= Total Cove	er	Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
1,				Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
2				Woody vines - All woody vines greater than 3 28 ft in
3				height.
4		Tatal Oau		
	0		er	Hydrophytic Vegetation
				Procent? Yes Y No
Remarks: (Explain alternative procedures here or in a separate i	report.)			
	• •			

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	Matrix		Redox	Features			,			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks		
0-9	10YR 2/2	100					Loam			
9-18	10YR 3/2	60	10YR 6/2	30	D	М	Clay			
9-18			10YR 6/4	10	С	М	Clay			
			-							
							·			
					<u> </u>		·			
ype: C=Cor	ncentration, D=Depletio	n, RM=Redu	iced Matrix, MS=Masł	ked Sand Gr	ains.		² Location: F	PL=Pore Lining, M=Matrix.		
ydric Soil li	ndicators:						Indicators for P	roblematic Hydric Soils ³ :		
Histosol	(A1)		Polyvalue Below	v Surface (S	8) (LRR R ,	MLRA 149B)	2 cm Muck	(A10) (LRR K, L, MLRA 149B)		
Histic Ep	oipedon (A2)		Thin Dark Surfa	ce (S9) (LF	RR R, MLRA	A 149B)	Coast Prairi	ie Redox (A16) (LRR K, L, R)		
Black His	stic (A3)		Loamy Mucky N	lineral (F1)	(LRR K, L)		5 cm Mucky	Peat or Peat (S3) (LRR K, L, R)		
Hydroge	n Sulfide (A4)		Loamy Gleyed N	Matrix (F2)			Dark Surfac	ce (S7) (LRR K, L)		
Stratified	l Layers (A5)		Depleted Matrix	(F3)			Polyvalue B	Below Surface (S8) (LRR K, L)		
Depleted	d Below Dark Surface (A	A11)	X Redox Dark Sur	face (F6)			I nin Dark Surface (S9) (LRR K, L)			
Thick Da	ark Surface (A12)		X Depleted Dark S	Surface (F7)			Iron-Manga	nese Masses (F12) (LRR K, L, R)		
_ Sandy M	lucky Mineral (S1)		Redox Depressi	ons (F8)			Piedmont F	loodplain Soils (F19) (MLRA 149B)		
Sandy G	Bleyed Matrix (S4)						Mesic Spoo	IIC (1A6) (MLRA 144A, 145, 149B)		
Sandy R	edox (S5)									
Oark Su	rface (S7) (IPPP MI	DA 140B)					Other (Evol	w Dark Surface $(1 + 12)$		
		.KA 145B)								
	hydrophytic vegetation	and wetland	hydrology must be p	resent, unle	ss disturbed	or problema	ic.			
ndicators of										
estrictive L	ayer (if observed):						Judria Sail Dragon			
ndicators of estrictive L Type: Depth (inc	ayer (if observed):						nyunc Son Presen	t? Yes X No		
ndicators of estrictive L Type: Depth (in-	ayer (if observed):						nyuric Soli Presen	t? Yes <u>X</u> NO		
estrictive L Type: Depth (indemnified to the second	.ayer (if observed): ches):							t? Yes <u>X</u> NO		
estrictive L Type: Depth (ind emarks:	.ayer (if observed): ches):							t? Yes <u>X</u> No		
ndicators of estrictive L Type: Depth (in emarks:	ayer (if observed):						nyunc son Presen	t? Yes <u>X</u> NO		
ndicators of estrictive L Type: Depth (in emarks:	ayer (if observed):						nyunc son Presen	t? Yes <u>X</u> NO		
estrictive L Type: Depth (inc emarks:	ayer (if observed):						nyunc son Presen	t? Yes <u>x</u> NO		
estrictive L Type: Depth (in emarks:	ayer (if observed):							t? Yes <u>x</u> No		
estrictive L Type: Depth (ini- emarks:	ayer (if observed):						nyunc son Presen	t? Yes <u>X</u> NO		
estrictive L Type: Depth (in emarks:	ayer (if observed):						nyunc son Presen	t? Yes <u>X</u> No		
estrictive L Type: Depth (in emarks:	ayer (if observed): ches):						nyunc son Presen	t? Yes <u>X</u> No		
estrictive L Type: Depth (in emarks:	ayer (if observed):						nyunc son Presen	t? Yes <u>X</u> No		

Project/Site:	16153 H	eritage Wind		City/County	. Tow	n of Barre. Orle	ans County	Sampling Date:	04/19/2022
Applicant/Owner:		He	ritage Wind, LLC	only/obtainly		Sta	ate: New York	Sampling Point:	66W08-01W
Investigator(s):		JB BA		Section, To	wnship, Ran	de:	Tov	wn of Barre	
Landform (hillslope, terra	ace, etc):	Lowland	Local re	elief (concave	e, convex, n	one):	concave	Slop	e (%): 0-5
Subregion (LRR or MLR/	A):	LRR L	Lat:	¥3.14	49485	Long:	-78.1682366	57 Datu	Im: WGS 1984
Soil Map Unit Name:		Lakemont si	ilty clay loam, 0 to	3 percent slo	opes		NWI classification	on: PFC	D1/SS1Bd
Are climatic / hydrologic	conditions on the	site typical for t	his time of year?	Yes X	No	(If no,	explain in Remark	s.)	
Are Vegetation	, Soil,	or Hydrology	significantly	y disturbed?	A	re "Normal Cire	cumstances" prese	nt? Yes	X No
Are Vegetation	, Soil,	or Hydrology	naturally pr	oblematic?	(1	f needed, expla	ain any answers in	Remarks.)	
SUMMARY OF FIN	DINGS - Atta	ch site map	showing sam	pling poi	nt locatio	ns, transec	ts, important	features, etc.	
Hydrophytic Vegetation	n Present?	Yes X	(No	1	s the Samp	led Area			
Hydric Soil Present?		Yes X	No No		within a We	tland?	Yes X	No	
Wetland Hydrology Pre	esent?	Yes X	K No	i	If yes, option	al Wetland Site	e ID:	66W08	
Remarks: (Explain alter forested v	ernative procedure wetland. borderec	es here or in a s by active agric	separate report.) culture fields. Man	made berms	have been	created around	l wetland.		
HYDROLOGY									
Wetland Hydrology Ir	ndicators:								
Primary Indicators (min	nimum of one req	uired; check all	that apply)				Secondary Indica	ators (minimum of	two required)
X Surface Water (A	.1)		X Water-Stained	d Leaves (B9	9)		Surface Soil	Cracks (B6)	
X High Water Table	(A2)	-	Aquatic Fauna	a (B13)			X Drainage Pa	atterns (B10)	
X Saturation (A3)		-	Marl Deposits	(B15)			Moss Trim L	ines (B16)	
Water Marks (B1))	-	Hydrogen Sul	fide Odor (C	1)		Dry-Season	Water Table (C2))
Sediment Deposit	ts (B2)	-	Oxidized Rhiz	ospheres on	Living Root	is (C3)	Crayfish Bur	rrows (C8)	(00)
Drift Deposits (B3	5) (D4)	-	Presence of F	Reduced Iron	1 (C4) Tilled Ceile (Saturation V	isible on Aerial In	hagery (C9)
Aigal Mat of Crus	(D4)	-	Thin Muck Su	rface (C7)		(0)	Sturited of 3	Position (D2)	,,,,
Inundation Visible	on Aerial Image	rv (B7)	Other (Explain	n in Remarks	3)		Shallow Ag	itard (D3)	
Sparsely Vegetate	ed Concave Surfa	ace (B8)			,		Microtopogr	aphic Relief (D4)	
		(20)					X FAC-Neutral	I Test (D5)	
								. ,	
Field Observations:									
Surface Water Present	t? Yes	<u> X No </u>	Depth (inche	es):	3				
Water Table Present?	Yes	<u>X</u> No	Depth (inche	es):	2	14/- 41		Х Х	N -
Saturation Present?	res	<u> </u>	Depth (Inche	es): (0	wetland Hyd	rology Present?	res X	
(includes capillary initig	je)								
Describe Recorded Da	ata (stream gauge	e, monitoring we	ell, aerial photos, p	revious inspe	ections), if a	vailable:			
		-		-	·				
Remarks:									

Sampling Point: 66W08-01W

Tree Stratum (Plot size:	Absolute <u>% Cover</u> 35 25 10	Dominant Species? Yes Yes No	Indicator Status FACW FACW FAC	Dominance Test w Number of Domina That Are OBL, FAC Total Number of Do Species Across All Percent of Dominar That Are OBL, FAC	vorksheet: nt Species CW, or FAC: ominant Strata: nt Species CW, or FAC:		5 6 83.3	_ (A) _ (B) _ (A/B)
0 7				Prevalence Index	worksheet:		.141	
	70	= Total Cov	er					
Sapling/Shrub Stratum (Plot size: 15 Feet)				CBL species	100	x I =	200	
1. Cornus amomum / Silky dogwood	20	Yes	FACW	FAC v species	100	×2- ×3-	200	
2. Ulmus americana / American elm	15	Yes	FACW	FAC species	0	×3- ×4-	0	
3.					5	×5=	25	
4.				Column Totals	115	(A)	255	(B)
5.					110	(//)	200	(B)
6				Prevalence Ir	ndex = B/A =		2.22	
1		- Total Cav		Hydrophytic Voco	tation India	tore		
Herb Stratum (Plot size: 5 Feet)		_ = 10tal 00V		1 - Rapid Test	for Hydrophy	itic Venet	ation	
1 Geum laciniatum / Rough avens	5	Vec	FACW/	X 2 - Dominance	Teet is >50°	kie vegei	ation	
2 Enthronium rostratum / Vellow trout-lily	5	Ves		X 3 - Prevalence	Index <3 01	10		
		103		<u> </u>	ical Adaptatio	ne ¹ (Prov	ide sunnor	tina
3				Problematic H	vdronbytic V		(Evolain)	ung
					yuropriyue v	egetation	(Lypiain)	
6	<u> </u>			Indicators of hydrid	a coil and wa	tland byd		+
7	<u> </u>			he present upless	dicturbed or	nrobloma	tio	
0	<u> </u>			be present, unless	uistui beu oi	problema		
9.				Definitions of Veg	etation Stra	ta		
10								
11				Tree - Woody plant breast height (DBH	ts 3 in. (7.6 c I). regardless	m) or moi of heiaht	re in diamet t.	er at
12				Sanling/shrub - W	loody plants	ess than	3 in DBH a	and
Woody Vine Stratum (Plot size: 30 Feet)	10	= lotal Cov	er	greater than or equ	al to 3.28 ft (1 m) tall.	o III. DBITC	
1,				Herb - All herbaced	ous (non-woo	ody) plant	s, regardles	s of
2				size, and woody pla		1 3.20 IL L	all.	
3			_	Woody vines - All	woody vines	greater t	han 3.28 ft i	n
4				neight.				
	0	= Total Cov	er	Hydrophytic				
				Vegetation				
				Present?	Yes)		,	
					103 /	<u> </u>	·	
Remarks: (Explain alternative procedures here or in a separa	ite report.)							
· · · · ·	. ,							
S	0	IL						
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Depth	Matrix	•	Redox	Features				
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-9	10YR 2/2	98	10YR 5/6	2	С	М	Clay Loam	
9-18	10YR 4/1	90	10YR 6/6	10	С	М	Clay Loam	
¹ Type: C=Cor	ncentration, D=Depletio	n, RM=Red	uced Matrix, MS=Mask	ed Sand Gr	ains.		² Location: I	PL=Pore Lining, M=Matrix.
Hydric Soil I	ndicators:						Indicators for F	Problematic Hydric Soils ³ :
Histosol	(A1)		Polyvalue Below	Surface (S	8) (LRR R	,MLRA 149	9B) 2 cm Muck	(A10) (LRR K, L, MLRA 149B)
Histic Ep	pipedon (A2)		Thin Dark Surfac	ce (S9) (LR	R R, MLR	A 149B)	Coast Prair	rie Redox (A16) (LRR K, L, R)
Black Hi	istic (A3)		Loamy Mucky M	ineral (F1)	(LRR K, L)		5 cm Muck	y Peat or Peat (S3) (LRR K, L, R)
Hydroge	en Sulfide (A4)		Loamy Gleyed N	latrix (F2)			Dark Surfa	ce (S7) (LRR K, L)
Stratified	d Layers (A5)		X Depleted Matrix	(F3)			Polyvalue	Below Surface (S8) (LRR K, L)
Depleted	d Below Dark Surface (A	A11)	X Redox Dark Sur	face (F6)			Thin Dark S	Surface (S9) (LRR K, L)
Thick Da	ark Surface (A12)		Depleted Dark S	surface (F7)			Iron-Manga	anese Masses (F12) (LRR K, L, R)
Sandy M	/lucky Mineral (S1)		Redox Depressi	ons (F8)			Piedmont F	Floodplain Soils (F19) (MLRA 149B)
Sandy G	Gleyed Matrix (S4)						Mesic Spoo	dic (TA6) (MLRA 144A, 145, 149B)
Sandy F	Redox (S5)						Red Parent	t Material (F21)
Stripped	l Matrix (S6)						Very Shallo	ow Dark Surface (TF12)
Dark Su	Irface (S7) (LRR R, MI	_RA 149B)					Other (Exp	lain in Remarks)
31	· · · · · · · · · · · · · · · · · · ·							
"Indicators of	nydropnytic vegetation	and wetland	a nyarology must be pr	esent, unies	s disturbed	a or probler		
Restrictive L	_ayer (if observed):							
Туре:								
Depth (in	iches):						Hydric Soil Presen	nt? Yes X No
Remarks:								

Project/Site:	16153 Heritage Wind	City/County:	Town of Barre, Orle	eans County	Sampling Date:	04/19/2022
Applicant/Owner:	Herita	wind. LLC	St	ate: New York	Sampling Point:	66W08/09-01U
Investigator(s):	JB BA	Section. Townshi	p. Range:	To	wn of Barre	
Landform (hillslope, terrace,	etc): Berm	Local relief (concave, cor	ivex. none):	convex	Slope	e (%): 0-5
Subregion (LRR or MLRA):	LRR L	Lat: 43.1494483	33 Long:	-78.168518	33 Datu	m: WGS 1984
Soil Map Unit Name:	Lakemont silty c	lay loam, 0 to 3 percent slopes	•	NWI classification	on:	N/A
Are climatic / hydrologic cond	ditions on the site typical for this	ime of year? Yes X	No (If no,	, explain in Remark	(s.)	
Are Vegetation , So	, or Hydrology	significantly disturbed?	Are "Normal Cir	cumstances" prese	ent? Yes	X No
Are Vegetation , So	, or Hydrology	naturally problematic?	(If needed, expl	ain any answers in	Remarks.)	
SUMMARY OF FINDIN	IGS - Attach site map sh	owing sampling point lo	cations, transec	cts, important	features, etc.	
Hydrophytic Vegetation Pr	esent? Yes	No X Is the	Sampled Area	<u> </u>	•	
Hydric Soil Present?	Yes X	No within	a Wetland?	Yes	No X	
Wetland Hydrology Preser	100 <u>- X</u>	No X If yes	optional Wetland Site	e ID [.]		_
		<u> </u>				
Remarks: (Explain alternat Man-made be	ive procedures here or in a sepa erm that separates wetlands.	rate report.)				
HYDROLOGY						
Wetland Hydrology Indic	ators:					
Primary Indicators (minimu	um of one required; check all that	apply)		Secondary Indica	ators (minimum of	two required)
Surface Water (A1)		Water-Stained Leaves (B9)		Surface Soi	l Cracks (B6)	
High Water Table (A2)	Aquatic Fauna (B13)		Drainage Pa	atterns (B10)	
Saturation (A3)		Marl Deposits (B15)		Moss Trim L	₋ines (B16)	
Water Marks (B1)		Hydrogen Sulfide Odor (C1)		Dry-Season	Water Table (C2)	1
Sediment Deposits (E		Oxidized Rhizospheres on Livin	ig Roots (C3)	Crayfish Bu	rrows (C8)	
Drift Deposits (B3)	<u> </u>	Presence of Reduced Iron (C4)		Saturation V	/isible on Aerial Im	nagery (C9)
Algal Mat or Crust (B4	4)	Recent Iron Reduction in Tilled	Soils (C6)	Stunted or S	Stressed Plants (D)1)
Iron Deposits (B5)		Thin Muck Surface (C7)		Geomorphic	Position (D2)	
Inundation Visible on	Aerial Imagery (B7)	Other (Explain in Remarks)		Shallow Aqu	uitard (D3)	
Sparsely Vegetated C	oncave Surface (B8)			Microtopogr	aphic Relief (D4)	
				FAC-Neutra	l Test (D5)	
Field Observations:						
Surface Water Present?	Yes No X	Depth (inches):				
Water Table Present?	Yes No X	Depth (inches):	-			
Saturation Present?	Yes No X	Depth (inches):	Wetland Hyd	Irology Present?	Yes	No X
(includes capillary fringe)			,			
Describe Recorded Data (stream gauge, monitoring well, a	erial photos, previous inspection	is), if available:			
Remarks:						
Man made be	erm that separates wetland W09	from W08.				

Sampling Point: 66W08/09-01U

	Absolute	Dominant	Indicator	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)
Tree Stratum (Plot size:30 Feet) 1. 2.	% Cover	Species?	Status	Total Number of Dominant Species Across All Strata:2 (B)
3. 4. 5.			- <u></u>	Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0 (A/B)
6. 7.				Prevalence Index worksheet:
Sapling/Shrub Stratum (Plot size:15 Feet) 1. 2. 3. 4.	0	= Total Cov	er 	OBL species0 $x 1 = 0$ FACW species0 $x 2 = 0$ FAC species0 $x 3 = 0$ FACU species10 $x 4 = 40$ UPL species35 $x 5 = 175$ Column Totals:45(A)
56.	_			$\frac{45}{215}$
7.	0	= Total Cov	er	Hydrophytic Vegetation Indicators:
Herb Stratum (Plot size: 5 Feet) 1. Securigera varia / Crownvetch 2. Alliaria petiolata / Garlic-mustard 3. Erythronium rostratum / Yellow trout-lily 4.	30 10 5	Yes Yes No	NI FACU NI	 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index ≤3.0¹ 4 - Morphological Adaptations¹ (Provide supporting Problematic Hydrophytic Vegetation¹ (Explain)
5 6 7 8.				¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
9				Definitions of Vegetation Strata
11				Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
Woody Vine Stratum (Plot size: 30 East)	45	= Total Cov	er	Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
1				Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
3.				Woody vines - All woody vines greater than 3.28 ft in height.
4.	0	= Total Cov	er	Hydrophytic Vegetation Present? Yes NoX
Remarks: (Explain alternative procedures here or in a separate	e report.)			

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(inches)			Redo	x Features					
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Rema	arks
0-18	10YR 2/1	100					Silt Loam		
					·				
					······································				
							· ·		
· ·							·		
· ·		<u> </u>			<u> </u>				
		DM-Doduo	ad Matrix, MS-Maa	kod Sand Cr			21 contion:	DI - Doro Lining	M-Motrix
		, RM-Reduc		keu Sanu Gi	ans.		-Location.	PL-Pole Lining,	
ydric Soil Ind	dicators:						Indicators for	Problematic Hy	dric Soils ³ :
X Histosol (/	A1)	_	Polyvalue Belo	w Surface (S	8) (LRR R,	MLRA 149	B) 2 cm Muc	(A10) (LRR K,	L, MLRA 149B)
Histic Epi	pedon (A2)	_	Thin Dark Surfa	ace (S9) (LR	R R, MLRA	(149B)	Coast Pra	irie Redox (A16)	(LRR K, L, R)
Black Hist	tic (A3)	_	Loamy Mucky I	Mineral (F1)	(LRR K, L)		5 cm Muc	ky Peat or Peat (S3) (LRR K, L, R
Hydrogen	Sulfide (A4)	-	Loamy Gleved	Matrix (F2)	,		Dark Surfa	ace (S7) (LRR)	(, L)
Stratified !	Lavers (A5)	-	Depleted Matrix	(F3)			Polvvalue	Below Surface (S8) (LRR K. L)
Depleted	Below Dark Surface (A	- 11)	Redox Dark Su	rface (F6)			Thin Dark	Surface (S9) (L	.RR K. L)
Thick Dar	k Surface (A12)		Depleted Dark	Surface (F7)			Iron-Mano	anese Masses (F12) (L RR K . L.
Sandy Mu	icky Mineral (S1)	-	Redox Depress	sions (F8)			Piedmont	Floodplain Soils	(F19) (MI RA 149
Sandy Gle	eved Matrix (S4)	-					Mesic Spo	dic (TA6) (MI F	RΔ 144Δ 145 149
Sandy Re	dox (S5)						Red Parer	nt Material (F21)	
Oalidy Re	Matrix (S6)						Very Shall	ow Dark Surface	(TE12)
Ourly Surf		DA 440B)					Very Shan	ow Dark Surface	(<i>2</i>)
Restrictive La	yer (if observed):						Hydric Soil Prese	nt? Yes	No <u>X</u>
Restrictive La Type: Depth (inch	yer (if observed):								
Restrictive La Type: Depth (inch Remarks:	yer (if observed):	il likely dreda	ed from adjacent w	etlands					
Restrictive La Type: Depth (incl Remarks: M	yer (if observed): nes): lan-made berm with so	il likely dredg	ed from adjacent w	etlands			-		
Restrictive La Type: Depth (incl Remarks: M	yer (if observed): nes): lan-made berm with so	il likely dredg	ed from adjacent w	etlands					
Restrictive La Type: Depth (incl Remarks: M	yer (if observed): hes): lan-made berm with so	il likely dredg	ed from adjacent w	etlands					
Restrictive La Type: Depth (incl Remarks: M	yer (if observed): hes):	il likely dredg	ed from adjacent w	etlands			-		
Restrictive La Type: Depth (incl Remarks: M	yer (if observed):	il likely dredg	ed from adjacent w	etlands					
Restrictive La Type: Depth (incl Remarks: M	yer (if observed):	il likely dredg	ed from adjacent w	etlands					
Restrictive La Type: Depth (incl Remarks: M	yer (if observed):	il likely dredg	ed from adjacent w	etlands					
Restrictive La Type: Depth (incl Remarks: M	yer (if observed):	il likely dredg	ed from adjacent w	etlands			-		
Restrictive La Type: Depth (incl Remarks: M	yer (if observed):	il likely dredg	ed from adjacent w	etlands					
Restrictive La Type: Depth (incl Remarks: M	yer (if observed):	il likely dredg	ed from adjacent w	etlands			-		
Restrictive La Type: Depth (incl Remarks: M	yer (if observed):	il likely dredg	ed from adjacent w	etlands					
Restrictive La Type: Depth (incl Remarks: M	yer (if observed):	il likely dredg	ed from adjacent w	etlands					
Restrictive La Type: Depth (incl Remarks: M	yer (if observed):	il likely dredg	ed from adjacent w	etlands					
Restrictive La Type: Depth (incl Remarks: M	yer (if observed):	il likely dredg	ed from adjacent w	etlands					
Restrictive La Type: Depth (incl Remarks: M	yer (if observed):	il likely dredg	ed from adjacent w	etlands					
Restrictive La Type: Depth (incl Remarks: M	yer (if observed):	il likely dredg	ed from adjacent w	etlands					
Restrictive La Type: Depth (incl Remarks: M	yer (if observed):	il likely dredg	ed from adjacent w	etlands					
Restrictive La Type: Depth (incl Remarks: M	yer (if observed):	il likely dredg	ed from adjacent w	etlands					
Restrictive La Type: Depth (incl Remarks: M	yer (if observed):	il likely dredg	ed from adjacent w	etlands					
Restrictive La Type: Depth (incl Remarks: M	yer (if observed):	il likely dredg	ed from adjacent w	etlands					
Restrictive La Type: Depth (incl Remarks: M	yer (if observed):	il likely dredg	ed from adjacent w	etlands					

Project/Site:	16153 Herita	ae Wind	Citv/Cor	untv: Tov	wn of Barre. Orle	ans County	Sampling Date:	04/19/2022
Applicant/Owner:		Heritage V	/ind. LLC		Sta	ate: New York	Sampling Point:	66W09-01W
Investigator(s):	JBE	3A	Section	. Township. Ra	inge:	Tov	wn of Barre	
Landform (hillslope, terra	ace. etc): D	epression	Local relief (con	cave. convex.	none):	concave	Slop	e (%): 0-5
Subregion (LRR or MLR	A): LF	R L	Lat: 4	3.149485	Long:	-78.1682366	57 Datu	Im: WGS 1984
Soil Map Unit Name:	,L	akemont silty clay	loam, 0 to 3 percen	nt slopes		NWI classificatio	on: PFC	D1/SS1Bd
Are climatic / hydrologic	conditions on the site !	typical for this time	of year? Yes	X No	(lf no,	explain in Remark	s.)	
Are Vegetation	, Soil , or Hv	vdrology s	significantly disturbe	ed?	Are "Normal Circ	umstances" prese	nt? Yes	X No
Are Vegetation	, Soil , or Hy	ydrology r	aturally problemati	ic?	(If needed, expla	ain any answers in	Remarks.)	
SUMMARY OF FIN	DINGS - Attach s	site map show	ing sampling r	ooint locati	ons. transec	ts. important	features, etc.	
	n Procent?		<u></u>	Is the Sam				
Hydric Soil Present?	II Flesent?			within a W	pieu Area	Vec X	No	
Wetland Hydrology Pr	resent?	Yes X N	, <u> </u>	If yes option	onal Wetland Site			—
wedand Hydrology I I				n yes, optio				
Remarks: (Explain alte	ernative procedures he	re or in a separate	report.)					
Forested	Wetland. Bordered by	active agriculture	fields. Man made b	perms have bee	en created surro	unding wetland.		
Wetland Lludrala my l	ndia eta ra i							
Wetland Hydrology I	ndicators:	h abaal all that any				Cocordon (Indico	tono (noining uno of	the required)
Primary indicators (mi	nimum of one required		JIY)			Secondary Indica		two required)
X High Water Table	·1) > (A2)	<u>^</u> wa	lei-Staineu Leaves	(D9)		Surface Soli	Clacks (D0)	
X Saturation (A2)	; (AZ)	Aqu	rl Doposite (P15)			Drainage Pa	ince (P16)	
<u>A</u> Saturation (AS)	۱ ۱		T Depusits (BTS)	r(C1)			Mator Table (C2)	N
) ite (P2)		dized Phizocohoro	n (CT) a an Living Pa	oto (C2)	Dry-Season		1
Drift Deposite (B2	3)	Oxi	sence of Peduced	Iron (C4)	015 (03)	Crayiisii Bui	liuws (Co) (isible on Aerial In	nagery (CQ)
Dhit Deposits (B.	5) at (P4)	Fie	sence of Reduced	in Tilled Seile	(06)	Saturation v	Stressed Plants (
X Iron Deposits (BF	5)	Thi	n Muck Surface (C	7)	(00)	Geomorphic	Position (D2)	, ()
Inundation Visible	ν) ο on Δerial Imagery (B [.]	7) <u> </u>	er (Evolain in Rem	r) Jarke)		Shallow Ag	itard (D3)	
Sparsely Vegetat	ed Concave Surface (I	R8)				Microtopogr	anhic Relief (D4)	
		20)				X FAC-Neutral	L Test (D5)	
						<u></u>		
Field Observations:								
Surface Water Presen	it? Yes X	No De	epth (inches):	3				
Water Table Present?	Yes X	No De	epth (inches):	2				
Saturation Present?	Yes X	No De	epth (inches):	0	Wetland Hydr	rology Present?	Yes X	No
(includes capillary fring	ge)							
Describe Descrided D				noncotions) if	available			
Describe Recorded Da	ata (stream gauge, mo	initoring well, aerial	pnotos, previous ir	nspections), if	avallable:			
Remarks:								
1								

Sampling Point: 66W09-01W

Tree Stratum (Plot size: <u>30 Feet</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: 4 Tatel Number of Dominant
1. Fraxinus pennsylvanica / Green ash	35	Yes	FACW	Species Agrees All Strate:
2. Ulmus americana / American elm	25	Yes	FACW	Species Across All Strata5 (B)
3. Acer rubrum / Red maple	10	No	FAC	Percent of Deminent Species
4				That Are OBL EACIAL or EAC: 80.0 (A/B)
5				
6				Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
	70	= Total Cov	er	$\frac{1}{OBL \text{ species}} \qquad 0 \qquad x = 0$
Sapling/Shrub Stratum (Plot size: 15 Feet)				FACW species $80 \times 2 = 160$
1. Ulmus americana / American elm	15	Yes	FACW	FAC species 10 $x_3 = 30$
2				FACU species $0 \times 4 = 0$
3.				$\frac{1}{10000000000000000000000000000000000$
4.				$\begin{array}{c} column Totals \\ \hline 0 \\ \hline$
5.				
6.				Prevalence Index = $R/A = 2.26$
7.				
	15	= Total Cov	er	Hydrophytic Vegetation Indicators:
Herb Stratum (Plot size: 5 Feet)		_		1 - Rapid Test for Hydrophytic Vegetation
1. Erythronium rostratum / Yellow trout-lily	5	Yes	NI	X 2 - Dominance Test is >50%
2. Geum laciniatum / Rough avens	5	Yes	FACW	X 3 - Prevalence Index ≤3.0 ¹
3.				4 - Morphological Adaptations ¹ (Provide supporting
4.				Problematic Hydrophytic Vegetation ¹ (Explain)
5.		_		
6.		_		¹ Indicators of hydric soil and wetland hydrology must
7				be present unless disturbed or problematic
8				
9				Definitions of Vegetation Strata
10				
11				Tree - Woody plants 3 in. (7.6 cm) or more in diameter at
12				breast height (DBH), regardless of height.
	10	= Total Cov	er	Sapling/shrub - Woody plants less than 3 in. DBH and
Woody Vine Stratum (Plot size: 30 Feet)		-		greater than or equal to 3.28 ft (1 m) tall.
1				Herb - All herbaceous (non-woody) plants, regardless of
2				
3				woody vines - All woody vines greater than 3.28 ft in height
4				noight.
	0	= Total Cov	er	Hydrophytic
				Vogetation
				Procent? Voc V No
Remarks: (Explain alternative procedures here or in a separate	e report.)			

S	0	IL
~	~	_

Depth	Matrix	-	Redox	Features				
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-9	10YR 2/2	98	10YR 5/6	2	C	М	Clay Loam	
9-18	10YR 4/1	90	10YR 6/6	10	С	М	Clay Loam	
		·					· · · · · · · · · · · · · · · · · · ·	
		·						
		·						
		·						
		·						
		·						
¹ Type: C=Cor	ncentration, D=Depletic	n, RM=Red	uced Matrix, MS=Masl	ked Sand Gr	ains.		² Location: Pl	L=Pore Lining, M=Matrix.
Hvdric Soil I	ndicators:						Indicators for Pr	oblematic Hydric Soils ³ :
Histosol	(A1)		Polvvalue Below	/ Surface (St	B) (LRR R	MLRA 149	9B) 2 cm Muck (A10) (LRR K. L. MLRA 149B)
Histic Er	pipedon (A2)		Thin Dark Surfa	ce (S9) (LR	R R. MLR	A 149B)	Coast Prairie	e Redox (A16) (LRR K. L. R)
Black Hi	stic (A3)		Loamy Mucky M	lineral (F1)	(LRR K, L)	. ,	5 cm Mucky	Peat or Peat (S3) (LRR K, L, R)
Hydroge	n Sulfide (A4)		Loamy Gleved N	Aatrix (F2)	. , ,		Dark Surface	e (S7) (LRR K, L)
Stratified	d Layers (A5)		X Depleted Matrix	(F3)			Polyvalue Be	elow Surface (S8) (LRR K, L)
Depleted	d Below Dark Surface (A11)	X Redox Dark Sur	face (F6)			Thin Dark Su	urface (S9) (LRR K, L)
 Thick Da	ark Surface (A12)	,	Depleted Dark S	Surface (F7)			Iron-Mangan	nese Masses (F12) (LRR K, L, R)
Sandy M	lucky Mineral (S1)		Redox Depressi	ons (F8)			Piedmont Flo	oodplain Soils (F19) (MLRA 149B)
Sandy G	Bleyed Matrix (S4)			. ,			Mesic Spodi	c (TA6) (MLRA 144A, 145, 149B)
Sandy R	Redox (S5)						Red Parent I	Material (F21)
Stripped	Matrix (S6)						Very Shallow	v Dark Surface (TF12)
Dark Su	rface (S7) (LRR R, MI	_RA 149B)					Other (Expla	in in Remarks)
		,						,
³ Indicators of	hydrophytic vegetation	and wetland	d hydrology must be p	resent, unles	s disturbed	d or probler	matic.	
Restrictive L	ayer (if observed):							
Туре:								
Depth (in	ches):						Hydric Soil Present	? Yes X No
Remarks:								

Project/Site:	16153 Heritad	ae Wind	Citv/Countv:	Town of Barre. Orl	eans County	Sampling Date:	04/19/2022
Applicant/Owner:		Heritage Wind, L	C	St	tate: New York	Sampling Point:	66W09-02U
Investigator(s):	JB E	BA	Section, Township	o, Range:	Tov	wn of Barre	
Landform (hillslope, terrac	ce. etc):	Flat Loc	al relief (concave, con	vex. none):	none	Slope	(%): 0-5
Subregion (LRR or MLRA	.): LR	RL Lat:	43.1507116	7 Lona:	-78,1696666	57 Datum	1: WGS 1984
Soil Map Unit Name:	، L	akemont silty clay loam, (to 3 percent slopes		NWI classificatio	n: I	N/A
Are climatic / hydrologic c	onditions on the site t	pical for this time of yea	r? Yes X	No (If no	, explain in Remarks	s.)	
Are Vegetation X	, Soil , or Hy	/drology signific	antly disturbed?	Are "Normal Cir	rcumstances" prese	, nt? Yes X	(No
Are Vegetation	, Soil , or Hy	/drology natural	v problematic?	(If needed, expl	lain any answers in	Remarks.)	
SUMMARY OF FIND	DINGS - Attach s	ite map showing s	ampling point lo	cations. transe	cts. important f	features, etc.	
Hydrophytic Vegetation	Precent?	Vec No	/ le tho	Sampled Area	,		
Hydric Soil Present?	riesent!	Ves No 2	within	a Wotland?	Vec	No X	
Wotland Hydrology Pro	cont?			a wellanu :			-
	Senti						·
Remarks: (Explain alter Active Agr	native procedures he iculture Field with ren	ere or in a separate report nnant corn. Upland Point	.) for 66W09-02W and 6	6W09-03W			
HYDROLOGY							
Wetland Hydrology In	dicators:						
Primary Indicators (min	imum of one required	· check all that apply)			Secondary Indica	tors (minimum of t	wo required)
Surface Water (A1)	Water-Sta	ined Leaves (B9)		Surface Soil	Cracks (B6)	no roquirou)
High Water Table (/ (A2)	Aquatic Fa	auna (B13)		Drainage Pa	itterns (B10)	
Saturation (A3)	//	Marl Depo	usits (B15)		Moss Trim I	ines (B16)	
Water Marks (B1)		Hydrogen	Sulfide Odor (C1)		Drv-Season	Water Table (C2)	
Sediment Deposits	s (B2)	Oxidized I	Rhizospheres on Livin	g Roots (C3)	Cravfish Bur	rows (C8)	
Drift Deposits (B3)		Presence	of Reduced Iron (C4)	5 • • • • (• • •)	Saturation V	isible on Aerial Ima	agery (C9)
Algal Mat or Crust	(B4)	Recent Irc	n Reduction in Tilled	Soils (C6)	Stunted or S	tressed Plants (D1)
Iron Deposits (B5)	. ,	Thin Mucl	Surface (C7)	. ,	Geomorphic	Position (D2)	
Inundation Visible	on Aerial Imagery (B7	7) Other (Ex	plain in Remarks)		Shallow Aqu	iitard (D3)	
Sparsely Vegetate	d Concave Surface (F	38)			Microtopogra	aphic Relief (D4)	
					FAC-Neutral	Test (D5)	
Surface Water Brocont	2 Vac	No X Donth (ir	achoo):				
Water Table Present?	Yes	$\underline{No} \times Depth (ii)$	iches).	-			
Saturation Present?	Vec	No X Depth (ii	iches):	Wotland Hyp	trology Prosont?	Vec	No X
(includes capillary fring)	a)		icites).		liology Fresent:	163	
Describe Recorded Dat	a (stream gauge, mo	nitoring well, aerial photo	s, previous inspection	s), if available:			
Demonster							
Remarks:							

Sampling Point: 66W09-02U

				Dominance Test worksheet:
				Number of Dominant Species
	Abaaluta	Deminent	Indiantar	That Are OBL, FACW, or FAC: 0 (A)
	Absolute	Dominant	Indicator	
Tree Stratum (Plot size: <u>30 Feet</u>)	% Cover	Species?	Status	Total Number of Dominant
1				Species Across All Strata: 0 (B)
2.				
3				Percent of Dominant Species
4				That Are OBL_EACW_or_EAC'0_0 (A/B)
5				
6				Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
	0	= Total Cove	er	$\overline{OBL \text{ species } 0}$ $\overline{x 1 = 0}$
Sapling/Shrub Stratum (Plot size: 15 Feet)				FACW species $0 \times 2 = 0$
1				FAC species $0 \times 3 = 0$
2.				FACU species $0 \times 4 = 0$
3.	_			$\frac{1}{1} \frac{1}{1} \frac{1}$
4.				$\begin{array}{c} \text{Olymp Totals:} \\ \text{Column Totals:} \\ \text{Olymp Totals:} \\ \ Olymp Total$
5.				$\begin{array}{c} \text{Column rotals.} \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ $
6				Dravelance Index D/A
7				Prevalence index = $B/A = 0.0$
·	0	= Total Cov		Hydrophytic Vegetation Indicators:
Herb Stratum (Plot size: 5 East)	0	_ 10121 000		1 Papid Test for Hydrophytic Vegetation
1				2 - Dominance lest is >50%
2				3 - Prevalence Index ≤3.0 ⁴
3				4 - Morphological Adaptations ¹ (Provide supporting
4				Problematic Hydrophytic Vegetation ¹ (Explain)
5				
6				¹ Indicators of hydric soil and wetland hydrology must
7				be present, unless disturbed or problematic.
8.				
9.				Definitions of Vegetation Strata
10.		_		
11.	-			Tree - Woody plants 3 in. (7.6 cm) or more in diameter at
12.				breast height (DBH), regardless of height.
	0	= Total Cov	er	Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3 28 ft (1 m) tall
Woody Vine Stratum (Plot size: 30 Feet)				
1				size and woody plants less than 3.28 ft tall
2				
3				Woody vines - All woody vines greater than 3.28 ft in height
4				neight.
	0	= Total Cove	er	lludra shutia
		_		Hydrophytic
				Vegetation
				Present? Yes <u>No X</u>
Demarka: (Evalain alternative presedures have as in a separate				
no vegetation during time of sampling only remain	ant corn			

0	0		
3	υ	I	L

Doptil	Matrix		Reub	k realures					
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks	
0-18	10YR 4/2	90	10YR 5/6	10			Clay		
	ncentration. D=Depletio	m. RM=Red	uced Matrix. MS=Masl	ked Sand Gr			² Location: PL	=Pore Lining, M=	Matrix.
Histosol Histic Ep Black Hi Hydroge Stratified Depleted Thick Da Sandy M Sandy G Sandy R Sandy R Dark Su	(A1) pipedon (A2) stic (A3) en Sulfide (A4) d Layers (A5) d Below Dark Surface (A ark Surface (A12) Mucky Mineral (S1) Gleyed Matrix (S4) Bedox (S5) I Matrix (S6) rface (S7) (LRR R, ML hydrophytic vegetation	A11) .RA 149B) and wetland	Polyvalue Belov Thin Dark Surfa Loamy Mucky M Loamy Gleyed M X Depleted Matrix Redox Dark Sur Depleted Dark S Redox Depressi	v Surface (S8 ce (S9) (LR flineral (F1) (Matrix (F2) (F3) face (F6) Surface (F6) Surface (F7) ions (F8)	B) (LRR R, IR R, MLRA (LRR K, L)	MLRA 1498 A 149B)	2 cm Muck (A Coast Prairie 5 cm Mucky F Dark Surface Polyvalue Be Thin Dark Su Iron-Mangane Piedmont Flo Mesic Spodic Red Parent M Very Shallow Other (Explai	(10) (LRR K, L, I Redox (A16) (L Peat or Peat (S3) (S7) (LRR K, L) low Surface (S8) (face (S9) (LRR ese Masses (F12 odplain Soils (F12 (TA6) (MLRA 1 laterial (F21) Dark Surface (TF n in Remarks)	MLRA 149B) RR K, L, R) (LRR K, L, R) (LRR K, L) K, L) (LRR K, L, R) 9) (MLRA 149B) 44A, 145, 149B)
Restrictive L Type: Depth (in	ayer (if observed):						Hydric Soil Present?	Yes	No X
Remarks:									

Project/Site:	16153 Heritage Wind	Citv/County:	Town of Barre. Orle	eans County	Sampling Date: 04/19/2022
Applicant/Owner:	Heritage	Wind, LLC	St	ate: New York	Sampling Point: 66W09-02W
Investigator(s):	JB BA	Section, Townshi	p, Range:	To	wn of Barre
Landform (hillslope, terrace, etc): Lowland	Local relief (concave, cor	vex, none):	concave	Slope (%): 0-5
Subregion (LRR or MLRA):	LRR L	Lat: 43.1493833	3 Long:	-78.1696666	57 Datum: WGS 1984
Soil Map Unit Name:	Lk: Lakemont silty clay lo	Dam, 0 to 3 percent slopes (29-	4045)	NWI classification	on: PFO1/SS1Bd
Are climatic / hydrologic condition	ons on the site typical for this tin	ne of year? Yes X	No (If no,	_ , explain in Remark	s.)
Are Vegetation X, Soil	, or Hydrology	significantly disturbed?	Are "Normal Cir	cumstances" prese	nt? Yes X No
Are Vegetation , Soil	, or Hydrology	naturally problematic?	(If needed, expl	ain any answers in	Remarks.)
SUMMARY OF FINDING	S - Attach site map sho	wing sampling point lo	cations, transed	cts, important	features, etc.
Hydrophytic Vegetation Press	ent? Yes X	No Is the	Sampled Area	· •	` `
Hydric Soil Present?		No withir	a Wotland?	Ves X	No
Wetland Hydrology Present?	Yes X	No lf ves	ontional Wetland Site	e ID [.]	66W/09
weddiad Hydrology i resent:				<u> </u>	
Remarks: (Explain alternative PEM data point.	procedures here or in a separa Agriculture field, mowed/ maint	ite report.) ained vegetation. Connected t	o NWI PFO1/SS1Bd		
HYDROLOGY					
Wetland Hydrology Indicate	ore:				
Primary Indicators (minimum	of one required: check all that a	annly)		Secondary Indica	ators (minimum of two required)
X Surface Water (A1)	V	Vater-Stained Leaves (B9)		Surface Soil	Cracks (B6)
X High Water Table (A2)	A	Aquatic Fauna (B13)		Drainage Pa	atterns (B10)
X Saturation (A3)	^ N	Aarl Deposits (B15)		Moss Trim L	ines (B16)
Water Marks (B1)		lydrogen Sulfide Odor (C1)		Drv-Season	Water Table (C2)
Sediment Deposits (B2)	C)xidized Rhizospheres on Livin	a Roots (C3)	Cravfish Bu	rrows (C8)
Drift Deposits (B3)	~~ × P	resence of Reduced Iron (C4)	9.10010 (00)	Saturation V	/isible on Aerial Imagery (C9)
X Algal Mat or Crust (B4)	F	Recent Iron Reduction in Tilled	Soils (C6)	Stunted or S	Stressed Plants (D1)
Iron Deposits (B5)	— т	hin Muck Surface (C7)		Geomorphic	Position (D2)
Inundation Visible on Ae	erial Imagery (B7)	ther (Explain in Remarks)		Shallow Aqu	uitard (D3)
Sparsely Vegetated Con	ncave Surface (B8)			Microtopogr	aphic Relief (D4)
				X FAC-Neutra	I Test (D5)
Field Observations:					
Surface Water Present?	Yes <u>X</u> No	Depth (inches): 2	_		
Water Table Present?		Depth (inches): 0	—		
Saturation Present?	Yes X NO	Depth (inches): 0	Wetland Hyd	rology Present?	Yes <u>X</u> NO
(includes capillary innge)					
Describe Recorded Data (stre	eam gauge, monitoring well, aer	ial photos, previous inspection	s), if available:		
	J. J	- F, F F	-,,		
Remarks:					

Sampling Point: 66W09-02W

	Absolute	Dominant	Indicator	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)
Tree Stratum (Plot size: 30 Feet) 1.	% Cover	Species?	Status	Total Number of Dominant Species Across All Strata: 1 (B)
3. 4. 5.		-		Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0 (A/B)
6 7				Prevalence Index worksheet: Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size:15 Feet) 1 2 3	0	_ = Total Cov	er 	OBL species5 $x 1 = 5$ FACW species0 $x 2 = 0$ FAC species0 $x 3 = 0$ FACU species0 $x 4 = 0$ UPL species0 $x 5 = 0$ Column Totals:5(A)
5. 6.	_			$\frac{10}{2}$
7 Herb Stratum (Plot size: 5 Feet)	0	= Total Cov	er	Hydrophytic Vegetation Indicators: X 1 - Rapid Test for Hydrophytic Vegetation
1. Juncus effusus / Common bog rush, Soft or lamp rush 2. 3. 4. 5. 6.	5	Yes	OBL	X 2 - Dominance Test is >50% X 3 - Prevalence Index ≤3.01 4 - Morphological Adaptations1 (Provide supporting Problematic Hydrophytic Vegetation1 (Explain) ¹Indicators of hydric soil and wetland hydrology must
7 8			- <u> </u>	be present, unless disturbed or problematic.
9 10 11				Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
12	5	= Total Cov	er	Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
Woody Vine Stratum (Plot size: <u>30 Feet</u>) 1				Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3 28 ft tall
23			- <u> </u>	Woody vines - All woody vines greater than 3.28 ft in height.
4	0	= Total Cov	 er	Hydrophytic Vegetation Present? Yes X
Remarks: (Explain alternative procedures here or in a separate Additional grasses and other mowed vegetation t	e report.) nat was unid	lentifiable give	en the time of	the year.
		. . .		

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	Matrix		Redox	Features				
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-12	10YR 3/1	98	10YR 6/4	2	С	М	Clay Loam	
12-18	10YR 5/1	90	10YR 6/4	10	С	М	Clay Loam	
¹ Type: C=Con	centration, D=Depletion	n, RM=Redı	uced Matrix, MS=Mask	ed Sand Gr	ains.		² Location: PL	-=Pore Lining, M=Matrix.
Hydric Soil In	ndicators:						Indicators for Pro	oblematic Hydric Soils ³ :
	(A1)		Polyvalue Below	Surface (Sa	3) (LRR R,	MLRA 149	B) 2 cm Muck (/	A10) (LRR K, L, MLRA 149B)
Histic Epi	ipedon (A2)		Thin Dark Surfac	ce (S9) (LR	RR, MLRA	A 149B)	Coast Prairie	Redox (A16) (LRR K, L, R)
Black His	stic (A3)		Loamy Mucky M	lineral (F1)	(LRR K, L)		5 cm Mucky	Peat or Peat (S3) (LRR K, L, R)
Hydroger	n Sulfide (A4)			latrix (F2)			Dark Surface	(S7) (LRR K, L)
Stratified	Layers (A5)		X Depleted Matrix	(F3) face (F0)			Polyvalue Be	
	Below Dark Surface (A	\ 11)	X Redox Dark Sur					
	rk Surface (A12)		Depleted Dark S				Iron-Mangan	ese Masses (F12) (LRR K, L, R)
Sandy Mi	ucky Mineral (S1)		Redox Depressi	ons (F8)			Pleamont Fic	
Sandy Gi	leyed Matrix (S4)							C (IA6) (MLRA 144A, 145, 149B)
Sandy Re	edox (S5)							Naterial (F21)
Stripped							very Shallow	
Dark Sun	Tace (S7) (LRR R, ML	RA 149B)					Other (Expla	in in Remarks)
	hydrophytic vegetation	and wetland	d hydrology must be pr	esent, unles	s disturbed	or problen	natic.	
³ Indicators of I								
³ Indicators of I Restrictive La	ayer (if observed):							
³ Indicators of I Restrictive La Type:	ayer (if observed):							
³ Indicators of I Restrictive La Type: Depth (inc	ayer (if observed):						Hydric Soil Present?	? Yes X No
³ Indicators of I Restrictive La Type: Depth (inc	ayer (if observed):						Hydric Soil Present	? Yes <u>X</u> No
^a Indicators of I Restrictive La Type: Depth (inc Remarks:	ayer (if observed):						Hydric Soil Present?	? Yes X No
^a Indicators of I Restrictive La Type: Depth (inc Remarks:	ayer (if observed):						Hydric Soil Present?	? Yes X No
^a Indicators of I Restrictive La Type: Depth (inc Remarks:	ayer (if observed):						Hydric Soil Present?	? Yes X No
^s Indicators of I Restrictive La Type: Depth (inc Remarks:	ayer (if observed):						Hydric Soil Present?	? Yes X No
^s Indicators of I Restrictive La Type: Depth (inc Remarks:	ayer (if observed):						Hydric Soil Present?	? Yes <u>X</u> No
³ Indicators of I Restrictive L Type: Depth (inc Remarks:	ayer (if observed):						Hydric Soil Present?	? Yes <u>X</u> No
^s Indicators of I Restrictive L Type: Depth (inc Remarks:	ayer (if observed):						Hydric Soil Present	? Yes <u>X</u> No
^a Indicators of I Restrictive La Type: Depth (inc Remarks:	ayer (if observed):						Hydric Soil Present	? Yes <u>X</u> No

Project/Site:	16153 H	leritage Wind	Citv	/County:	Town of Barre, Orl	eans County	Sampling Date:	04/19/2022
Applicant/Owner:		Herit	age Wind, LLC		St	tate: New York	Sampling Point:	66W09-03W
Investigator(s):		JB BA	Sec	tion, Township,	Range:	То	wn of Barre	
Landform (hillslope, terra	ace, etc):	Lowland	Local relief (concave, conve	ex, none):	concave	Slope	e (%): 0-5
Subregion (LRR or MLR	A):	LRR L	Lat:	43.15115	Long:	-78.16806	5 Datur	n: WGS 1984
Soil Map Unit Name:		Lakemont silty	clay loam, 0 to 3 per	rcent slopes		NWI classification	on: PFO	1/SS1Bd
Are climatic / hydrologic	conditions on the	site typical for this	s time of year? Yes	<u> </u>	No (If no	, explain in Remark	(S.)	
Are Vegetation X	, Soil,	or Hydrology	significantly dist	urbed?	Are "Normal Cir	cumstances" prese	ent? Yes	No X
Are Vegetation	_, Soil,	or Hydrology	naturally proble	matic?	(If needed, expl	ain any answers in	Remarks.)	
SUMMARY OF FIN	DINGS - Atta	ch site map s	howing samplin	ig point loca	ations, transe	cts, important	features, etc.	
Hydrophytic Vegetatio	n Present?	Yes X	No	Is the S	ampled Area			
Hydric Soil Present?		Yes X	No	within a	Wetland?	Yes X	No	_
Wetland Hydrology Pr	esent?	Yes X	No	If yes, o	otional Wetland Sit	e ID:		
Remarks: (Explain alte Area is h areas of	ernative procedure eavily disturbed. N ponding water an	es here or in a sep Woody plants we o d topographic relie	parate report.) cut down on edge of ef for upland plants.	agriculture field	and piled up on e	dge of Woodlot. De	ep ruts from equip	ment created
HYDROLOGY								
Wetland Hydrology I	ndicators:							
Primary Indicators (mi	nimum of one req	uired; check all th	at apply)			Secondary Indica	ators (minimum of	two required)
X Surface Water (A	.1)		Water-Stained Lea	ives (B9)		Surface Soi	l Cracks (B6)	
High Water Table	: (A2)		Aquatic Fauna (B1	3)		Drainage Pa	atterns (B10)	
X Saturation (A3)		_	Marl Deposits (B15	5)		Moss Trim L	_ines (B16)	
Water Marks (B1)	_	Hydrogen Sulfide (Odor (C1)		Dry-Season	Water Table (C2)	
Sediment Deposi	its (B2)	<u></u>	Oxidized Rhizosph	eres on Living	Roots (C3)	Crayfish Bu	rrows (C8)	(22)
Drift Deposits (B3	3) (D4)	<u></u>	Presence of Reduc	ced Iron (C4)		Saturation \	/isible on Aerial Im	agery (C9)
Algal Mat of Crus	51 (B4)		Thin Muck Surface		biis (C6)	Sunied or s	Plants (D	1)
Inundation Visible	'' e on Aerial Image	rv (B7)	Other (Explain in F	(C7) Remarks)		Shallow Ag	uitard (D3)	
Sparsely Vegetat	ed Concave Surfa	ace (B8)		(cindino)		Microtopogr	aphic Relief (D4)	
						X FAC-Neutra	Il Test (D5)	
						—		
Field Observations:		V Na	Denth (inches)	10				
Surface Water Presen	t? Yes		Depth (inches):	12	-			
Saturation Present?	Ves		Depth (inches):	0	- Wetland Hyd	Irology Present?	Ves X	No
(includes capillary fring	ae)			0		lology i resent:		
	<u> </u>							
Describe Recorded Da	ata (stream gauge	e, monitoring well,	aerial photos, previo	us inspections)	, if available:			
Remarks:								

Sampling Point: ____66W09-03W

				Dominance Test worksheet: Number of Dominant Species
	Absolute	Dominant	Indicator	That Are OBL, FACW, or FAC: (A)
Tree Stratum (Plot size: <u>30 Feet</u>)	% Cover	Species?	Status	Total Number of Dominant
1			<u> </u>	Species Across All Strata: 3 (B)
3.				Percent of Dominant Species
4				That Are OBL, FACW, or FAC: 66.7 (A/B)
5 6		<u></u>	- <u> </u>	
7.				Total % Cover of: Multiply by:
	0	= Total Cove	er	$\overline{\text{OBL species}} 20 \qquad \text{x 1} = 20$
Sapling/Shrub Stratum (Plot size: 15 Feet)				FACW species 10 x 2 = 20
1				FAC species 0 x 3 = 0
2				FACU species <u>5</u> x 4 = <u>20</u>
3.			·	UPL species 10 x 5 = 50
4			- <u> </u>	Column Totals: <u>45</u> (A) <u>110</u> (B)
6.			·	Prevalence Index = B/A = 2.44
7				
	0	= Total Cove	er	Hydrophytic Vegetation Indicators:
Herb Stratum (Plot size: 5 Feet)				 Rapid Test for Hydrophytic Vegetation
1. Ranunculus sceleratus / Cursed crowfoot	10	Yes	OBL	X 2 - Dominance Test is >50%
2. Rubus / Blackberry	10	Yes	NI	X 3 - Prevalence Index ≤3.01
3. Typha angustifolia / Narrow leaf cattail, Narrow-leaved cattai	10	Yes	OBL	4 - Morphological Adaptations ¹ (Provide supporting
4. Taraxacum officinale / Red seeded dandelion, Common dan	5	No	FACU	Problematic Hydrophytic Vegetation ¹ (Explain)
5. Cornus amomum / Silky dogwood	5	No	FACW	
6. <u>Phleum alpinum / Timothy grass, Alpine timothy, Mountain tir</u>	5	No	FACW	¹ Indicators of hydric soil and wetland hydrology must
8				
9.		·		Definitions of Vegetation Strata
10.				
11				Tree - Woody plants 3 in. (7.6 cm) or more in diameter at
12				Sanling/shruh - Woody plants less than 3 in DBH and
Woody Vine Stratum (Plot size: 30 Feet)	45	= lotal Cove	er	greater than or equal to 3.28 ft (1 m) tall.
1.				Herb - All herbaceous (non-woody) plants, regardless of
2.				size, and woody plants less than 3.28 ft tall.
3.				Woody vines - All woody vines greater than 3.28 ft in
4				neight.
	0	= Total Cove	er	Hydrophytic
				Vegetation
				Present? Yes X No
Remarks: (Explain alternative procedures here or in a separate	report.)			1
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Depth	Matrix		Redox	Features				
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-18	10YR 3/2	70	10YR 6/6	5	C	М	Clay Loam	
0-18			10YR 5/2	25	D	М	Clay Loam	
					·		·	
¹ Type: C=Co	ncentration, D=Depletio	n, RM=Redu	uced Matrix, MS=Mask	ed Sand Gr	ains.		² Location: F	PL=Pore Lining, M=Matrix.
Hydric Soil I	ndicators:						Indicators for P	roblematic Hydric Soils ³ :
Histosol	(A1)		Polyvalue Below	Surface (S	8) (LRR R	,MLRA 149	9B) 2 cm Muck	(A10) (LRR K, L, MLRA 149B)
Histic E	pipedon (A2)		Thin Dark Surfac	ce (S9) (LF	RR R, MLR	A 149B)	Coast Prairi	e Redox (A16) (LRR K, L, R)
Black H	istic (A3)		Loamy Mucky M	ineral (F1)	(LRR K, L)		5 cm Mucky	Peat or Peat (S3) (LRR K, L, R)
Hydroge	en Sulfide (A4)		Loamy Gleyed N	latrix (F2)			Dark Surfac	ce (S7) (LRR K, L)
Stratifie	d Layers (A5)		Depleted Matrix	(F3)			Polyvalue B	elow Surface (S8) (LRR K, L)
Deplete	d Below Dark Surface (A	A11)	X Redox Dark Surf	ace (F6)			Thin Dark S	Surface (S9) (LRR K, L)
Thick Da	ark Surface (A12)		X Depleted Dark S	urface (F7)			Iron-Manga	nese Masses (F12) (LRR K, L, R)
Sandy N	Aucky Mineral (S1)		Redox Depressio	ons (F8)			Piedmont F	loodplain Soils (F19) (MLRA 149B)
Sandy G	Bleyed Matrix (S4)						Mesic Spod	ic (TA6) (MLRA 144A, 145, 149B)
Sandy F	Redox (S5)						Red Parent	Material (F21)
Stripped	I Matrix (S6)						Very Shallo	w Dark Surface (TF12)
Dark Su	rface (S7) (LRR R, ML	.RA 149B)					Other (Expl	ain in Remarks)
³ Indicators of	hydrophytic vegetation	and wetland	d hydrology must be pr	esent, unles	ss disturbed	l or probler	natic.	
Restrictive L	_ayer (if observed):							
Туре:								
Depth (in	iches):						Hydric Soil Present	t? Yes X No
Remarks:								

Project/Site:	16153 He	ritage Wind	City	y/County:	Town of Barre, C	Orleans County	Sampling Date:	04/20/2022
Applicant/Owner:		Herita	ige Wind, LLC	· · <u> </u>		State: New York	Sampling Point:	66W10-01U
Investigator(s):		JB BA	Sec	ction, Township,	Range:	То	wn of Barre	
Landform (hillslope, terra	ace, etc):	Hillslope	Local relief	(concave, conve	ex, none):	concave	Slope	: (%): 3-8
Subregion (LRR or MLR/	A):	LRR L	Lat:	43.14978	Long:	-78.164633	33 Datur	n: WGS 1984
Soil Map Unit Name:	· .	Hilton lo	am, 3 to 8 percent s	slopes		NWI classification	on:	N/A
Are climatic / hydrologic	conditions on the s	ite typical for this	time of year? Yes	s X I	No (lfr	no, explain in Remark	(S.)	
Are Vegetation X	, Soil , o	or Hydrology	significantly dis	sturbed?	Are "Normal (Circumstances" prese	ent? Yes 2	X No
Are Vegetation	, Soil , o	r Hydrology	naturally proble	ematic?	(If needed, ex	plain any answers in	Remarks.)	
SUMMARY OF FIN	DINGS - Attac	h site map sh	nowing sampli	na point loca	ations. trans	ects. important	features, etc.	
	n Brocont?	Voc	No V		ampled Area	,	,	
Hydrio Soil Procent?	in riesent!	Voc		is the Sa	Wotland2	Voc	No V	
Wetland Hydrology Pr	esent?	Ves			ntional Wetland			_
weiland Hydrology Pre	esenti	163		ii yes, o				
Remarks: (Explain alte active ag	ernative procedures priculture field with I	s here or in a sep harvested vegeta	arate report.) tion					
HYDROLOGY								
Wetland Hydrology Ir	ndicators:							
Primary Indicators (min	nimum of one requ	lired; check all the	at apply)			Secondary Indica	ators (minimum of f	wo required)
Surface Water (A	(1)		Water-Stained Lea	aves (B9)		Surface Soi	I Cracks (B6)	
High Water Table	e (A2)		Aquatic Fauna (B	13)		Drainage Pa	atterns (B10)	
Saturation (A3)			Marl Deposits (B1	5)		Moss Trim I	Lines (B16)	
Water Marks (B1))		Hydrogen Sulfide	Odor (C1)		Dry-Season	Water Table (C2)	
Sediment Deposit	its (B2)		Oxidized Rhizosp	heres on Living	Roots (C3)	Crayfish Bu	rrows (C8)	
Drift Deposits (B3	3)		Presence of Redu	iced Iron (C4)		Saturation \	/isible on Aerial Im	agery (C9)
Algal Mat or Crus	st (B4)		Recent Iron Redu	ction in Tilled Sc	oils (C6)	Stunted or St	Stressed Plants (D	1)
Iron Doposite (PE	5)		Thin Muck Surfac	e (C7)		Geomorphic	c Position (D2)	
	<i>,</i>)							
Inundation Visible	e on Aerial Imagery	/ (B7)	Other (Explain in I	Remarks)		Shallow Aq	uitard (D3)	
Inundation Visible	e on Aerial Imagery ed Concave Surfac	/ (B7) ce (B8)	Other (Explain in I	Remarks)		Shallow Aqu Microtopogi	uitard (D3) raphic Relief (D4)	
Inundation Visible	e on Aerial Imagery red Concave Surfac	/ (B7) ce (B8)	Other (Explain in I	Remarks)		Shallow Aq Microtopogi FAC-Neutra	uitard (D3) raphic Relief (D4) al Test (D5)	
Inundation Visible Sparsely Vegetate	e on Aerial Imagery ed Concave Surfac	4 (B7)	Other (Explain in I	Remarks)		Shallow Aquestic Shallow Aquestic Microtopogi FAC-Neutra	uitard (D3) raphic Relief (D4) Il Test (D5)	
Field Observations:	e on Aerial Imagery ed Concave Surfac	/ (B7) ce (B8)	Other (Explain in I	Remarks)		Shallow Aq Microtopogi FAC-Neutra	uitard (D3) raphic Relief (D4) al Test (D5)	
Field Observations: Surface Water Present?	t? Yes _ Yes	(B7) ce (B8) NoX	Other (Explain in I	Remarks)	_	Shallow Aq Microtopogi FAC-Neutra	uitard (D3) raphic Relief (D4) al Test (D5)	
Field Observations: Surface Water Present?	t? Yes _ Yes _ Yes _ Yes _ Yes _ Yes _ Yes _ Yes _	y (B7) ce (B8) NoX NoX	Other (Explain in I _ Depth (inches): _ Depth (inches): _ Depth (inches):	Remarks)	- - Wetland H	Shallow Aq Microtopogi FAC-Neutra	uitard (D3) raphic Relief (D4) al Test (D5) Yes	No X
Field Observations: Surface Water Present? Saturation Present?	t? Yes _ Yes _ Yes _ Yes _ Yes _ Yes _ Yes _	y (B7) ce (B8) No X No X No X	Other (Explain in I Depth (inches): Depth (inches): Depth (inches):	Remarks)	- Wetland H	Shallow Aq Microtopogi FAC-Neutra	uitard (D3) raphic Relief (D4) al Test (D5) Yes	No <u>X</u>
Field Observations: Surface Water Present? Saturation Present? (includes capillary fring	e on Aerial Imagery eed Concave Surfac 	y (B7) ce (B8) NoX NoX	Other (Explain in I Depth (inches): Depth (inches): Depth (inches):	Remarks)	- Wetland H	Shallow Aq Microtopogi FAC-Neutra	uitard (D3) raphic Relief (D4) al Test (D5) Yes	No <u>X</u>
Field Observations: Surface Water Present? Saturation Present? (includes capillary fring Describe Recorded Da	e on Aerial Imagery ed Concave Surfac 	y (B7) ce (B8) NoX NoX NoX monitoring well, a	Other (Explain in I _ Depth (inches): _ Depth (inches): _ Depth (inches): aerial photos, previo	Remarks)	- - - - - - - - - - - - - - - - - - -	Shallow Aq Microtopogu FAC-Neutra	uitard (D3) raphic Relief (D4) al Test (D5) Yes	No <u>X</u>
Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Date	e on Aerial Imagery ed Concave Surfac t? Yes _ Yes _ ge) ata (stream gauge,	y (B7) ce (B8) No X No X No X monitoring well, a	Other (Explain in I _ Depth (inches): _ Depth (inches): _ Depth (inches): _ aerial photos, previo	Remarks)	Wetland H	Shallow Aq Microtopogi FAC-Neutra	uitard (D3) raphic Relief (D4) al Test (D5) Yes	No <u>X</u>
Field Observations: Surface Water Present? Saturation Present? (includes capillary fring	e on Aerial Imagery ed Concave Surfac t? Yes _ Yes _ Yes _ ge) ata (stream gauge,	y (B7) ce (B8) No X No X No X monitoring well, a	Other (Explain in I _ Depth (inches): _ Depth (inches): _ Depth (inches): _ aerial photos, previo	Remarks)	Wetland H	Shallow Aq Microtopogi FAC-Neutra ydrology Present?	uitard (D3) raphic Relief (D4) al Test (D5) Yes	No <u>X</u>
Field Observations: Surface Water Present? Saturation Present? (includes capillary fring Describe Recorded Da Remarks:	e on Aerial Imagery ed Concave Surfac t? Yes _ Yes _ yes _ ge) ata (stream gauge,	y (B7) ce (B8) No X No X monitoring well, a	Other (Explain in I _ Depth (inches): _ Depth (inches): _ Depth (inches): aerial photos, previo	Remarks)	, if available:	Shallow Aq Microtopogi FAC-Neutra ydrology Present?	uitard (D3) raphic Relief (D4) al Test (D5) Yes	No <u>X</u>
Field Observations: Surface Water Present? Saturation Present? (includes capillary fring Describe Recorded Da Remarks:	e on Aerial Imagery ed Concave Surfac t? Yes _ Yes _ yes _ ge) ata (stream gauge,	y (B7) ce (B8) NoX NoX NoX monitoring well, a	Other (Explain in I _ Depth (inches): _ Depth (inches): _ Depth (inches): aerial photos, previo	Remarks)	, if available:	Shallow Aq Microtopogi FAC-Neutra ydrology Present?	uitard (D3) raphic Relief (D4) al Test (D5) Yes	No <u>X</u>
Field Observations: Surface Water Present? Saturation Present? (includes capillary fring Describe Recorded Data Remarks:	t? Yes _ Yes _ Yes _ Yes _ Yes _ Yes _	((B7) ce (B8) NoX NoX monitoring well, a	Other (Explain in I _ Depth (inches): _ Depth (inches): _ Depth (inches): aerial photos, previo	Remarks)	Wetland H	Shallow Aq Microtopogi FAC-Neutra ydrology Present?	uitard (D3) raphic Relief (D4) al Test (D5) Yes	No <u>X</u>
Field Observations: Surface Water Present? Saturation Present? (includes capillary fring Describe Recorded Data	e on Aerial Imagery eed Concave Surfac t? Yes _ Yes _ ge) ata (stream gauge,	((B7) ce (B8) NoX NoX monitoring well, a	Other (Explain in I	Remarks)	- Wetland H	Shallow Aq Microtopogi FAC-Neutra ydrology Present?	uitard (D3) raphic Relief (D4) al Test (D5) Yes	No <u>X</u>
Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Da	e on Aerial Imagery ed Concave Surfac t? Yes _ Yes _ ge) ata (stream gauge,	(B7) ce (B8) No X No X No X monitoring well, a	Other (Explain in I	Remarks)	, if available:	Shallow Aq Microtopogi FAC-Neutra ydrology Present?	uitard (D3) raphic Relief (D4) al Test (D5) Yes	No <u>X</u>
Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Da	e on Aerial Imagery ed Concave Surfac t? Yes _ Yes _ ge) ata (stream gauge,	y (B7) ce (B8) NoX NoX monitoring well, a	Other (Explain in I	Remarks)	, if available:	Shallow Aq Microtopogi FAC-Neutra ydrology Present?	uitard (D3) raphic Relief (D4) al Test (D5) Yes	No <u>X</u>
Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Da	e on Aerial Imagery ed Concave Surfac t? Yes _ Yes _ ge) ata (stream gauge,	y (B7) ce (B8) No <u>X</u> No <u>X</u> monitoring well, a	Other (Explain in I	Remarks)	, if available:	Shallow Aq Microtopogi FAC-Neutra ydrology Present?	uitard (D3) raphic Relief (D4) al Test (D5) Yes	No <u>X</u>
Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Da	e on Aerial Imagery ed Concave Surfac t? Yes _ Yes _ ge) ata (stream gauge,	y (B7) ce (B8) No <u>X</u> No <u>X</u> monitoring well, a	Other (Explain in I	Remarks)	, if available:	Shallow Aq Microtopogi FAC-Neutra ydrology Present?	uitard (D3) raphic Relief (D4) al Test (D5) Yes	No <u>X</u>
Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Da	r/ e on Aerial Imagery ed Concave Surfac t? Yes _ Yes _ ge) ata (stream gauge,	y (B7) ce (B8) No X No X monitoring well, a	Other (Explain in I	Remarks)	, if available:	Shallow Aq Microtopogi FAC-Neutra ydrology Present?	uitard (D3) raphic Relief (D4) al Test (D5) Yes	No <u>X</u>
Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Data Remarks:	r/ e on Aerial Imagery ed Concave Surfac t? Yes _ Yes _ ge) ata (stream gauge,	((B7) ce (B8) NoX NoX monitoring well, a	Other (Explain in I	Remarks)	, if available:	Shallow Aq Microtopogi FAC-Neutra ydrology Present?	uitard (D3) raphic Relief (D4) al Test (D5) Yes	No <u>X</u>
Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Data Remarks:	/, e on Aerial Imagery ed Concave Surfac (t? Yes _ Yes _ ge) ata (stream gauge,	((B7) ce (B8) NoX NoX monitoring well, ;	Other (Explain in I	Remarks)	, if available:	Shallow Aq Microtopogi FAC-Neutra	uitard (D3) raphic Relief (D4) al Test (D5) Yes	No <u>X</u>
Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Data Remarks:	e on Aerial Imagery ed Concave Surfac (1? Yes _ Yes _ ge) ata (stream gauge,	((B7) ce (B8) NoX NoX monitoring well, ;	Other (Explain in I	Remarks)	, if available:	Shallow Aq Microtopogi FAC-Neutra ydrology Present?	uitard (D3) raphic Relief (D4) al Test (D5) Yes	No <u>X</u>
Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Data Remarks:	e on Aerial Imagery e on Aerial Imagery ed Concave Surfac (t? Yes _ Yes _ ge) ata (stream gauge,	((B7) ce (B8) NoX NoX monitoring well, :	Other (Explain in I	Cours inspections)	, if available:	Shallow Aq Microtopogi FAC-Neutra ydrology Present?	uitard (D3) raphic Relief (D4) al Test (D5) Yes	No <u>X</u>
Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Da Remarks:	e on Aerial Imagery e on Aerial Imagery ed Concave Surfac t? Yes _ Yes _ ge) ata (stream gauge,	(B7) ce (B8) No No monitoring well, a	Other (Explain in I	Remarks)	, if available:	Shallow Aq Microtopogi FAC-Neutra ydrology Present?	uitard (D3) raphic Relief (D4) al Test (D5) Yes	No <u>X</u>
Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Da Remarks:	e on Aerial Imagery e on Aerial Imagery ed Concave Surfac t? Yes _ Yes _ ge) ata (stream gauge,	(B7) ce (B8) No X No X monitoring well, a	Other (Explain in I	Remarks)	, if available:	Shallow Aq Microtopogi FAC-Neutra ydrology Present?	uitard (D3) raphic Relief (D4) al Test (D5) Yes	No <u>X</u>

Sampling Point: 66W10-01U

Tree Stratum (Plot size: 30 Feet)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)
1, 2				Total Number of Dominant Species Across All Strata:2 (B)
3 4 5.				Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0 (A/B)
6. 7.		_		Prevalence Index worksheet: Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15 Feet) 1.	0	_ = Total Cov	er 	OBL species0 $x 1 = 0$ FACW species0 $x 2 = 0$ FAC species0 $x 3 = 0$ FACU species5 $x 4 = 20$ UPL species20 $x 5 = 100$
5				Prevalence Index = $B/A = 4.8$
7 Herb Stratum (Plot size:5 Feet)	0	= Total Cov	er	Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation
Lamium purpureum / Purple dead nettle Dipsacus fullonum / Wild teasel	<u>20</u> 5	Yes Yes	FACU	2 - Dominance Test is >50% 3 - Prevalence Index ≤3.0 ¹ 4 - Morphological Adaptations ¹ (Provide supporting Problematic Hydrophytic Vegetation ¹ (Explain)
5 6 7 8.				¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
9 10 11				Definitions of Vegetation Strata Tree - Woody plants 3 in. (7.6 cm) or more in diameter at
12	25	= Total Cov	er	Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
woody vine Stratum (Plot size:				Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
3				Woody vines - All woody vines greater than 3.28 ft in height.
	0	_ = Total Cov	er	Hydrophytic Vegetation Present? Yes NoX
Remarks: (Explain alternative procedures here or in a separa	te report.)			

0	0		
3	υ	I	L

(inches) 0-9 9-15	Color (moist) 7.5YR 4/3 7.5YR 4/6	% 100 100	Color (moist)	%	Type ¹	Loc ²	Texture Slty Clay Loam	Remar	ks
0-9 9-15	7.5YR 4/3 7.5YR 4/6	100 100					Sity Clay Loam		
9-15	7.5YR 4/6	100	-	_					
·							Silty Clay		
				-	·				
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ype: C=Conc	entration, D=Depletion	on, RM=Redu	iced Matrix, MS=Mas	ked Sand Gr	ains.		² Location: F	PL=Pore Lining, N	A=Matrix.
/dric Soil Inc	dicators:						Indicators for P	Problematic Hyd	ric Soils ³ :
Histosol (A	A1)		Polyvalue Belov	w Surface (S	8) (LRR R ,	MLRA 14	9B) 2 cm Muck	(A10) (LRR K, L	., MLRA 149B)
Histic Epir	bedon (A2)		Thin Dark Surfa	ice (S9) (LF	RR R, MLRA	A 149B)	Coast Prair	ie Redox (A16)	(LRR K, L, R)
Black Hist	ic (A3)		Loamv Muckv N	/lineral (F1)	(LRR K. L)	,	5 cm Muck	v Peat or Peat (S	3) (LRR K. L. R)
- Hvdrogen	Sulfide (A4)		Loamy Gleved I	Matrix (F2)	())		Dark Surfac	ce (S7) (LRR K.	L)
Stratified I	avers (A5)		Depleted Matrix	(F3)			Polyvalue F	Below Surface (St	-, 8) (IRR K I)
_ Depleted [Below Dark Surface (Δ11)	Bedox Dark Su	rface (F6)			Thin Dark S	Surface (S9) (I R	
_ Depicted I	k Surface (A12)	,,,,,,	Depleted Dark 9	Surface (F7)			Iron-Manga	anese Masses (F	12) (IRRKIR
_ Sandy Mu	cky Mineral (S1)		Beday Depress	ions (E8)			Piedmont F	Floodnlain Soils (F	10) (MI RA 1498
_ Sandy Rid	wed Matrix (S4)						Mesic Spor		10) (MERCA 1400
_ Sandy Be							Bod Barant	t Matarial (E21)	(1444, 145, 1450
_ Salidy Red	dux (SS)							w Dork Surface (TE10)
_ Supped iv	//allix (50)						very shalld	w Dark Surface (1F12)
	(37) (LKK K, WI	LKA 149D)							
strictive Lay	yer (if observed):						Hudria Sail Procon	*2 Voc	No. Y
Depth (inch	nes):						Hydric Soil Presen	t? Yes	NOX

Project/Site	16153 Heritage Wind	City/County:	Town of Barre Orle	ans County	Sampling Date:	04/20/2022
Applicant/Owner:	Heritac	e Wind, LLC	Sta	te: New York	Sampling Point:	66W10-01W
Investigator(s):	JB BA	Section, Townsh	p, Range:	То	wn of Barre	
Landform (hillslope, terrace, et	c): Lowland	Local relief (concave, cor	ivex, none):	concave	Slope	(%): 0-5
Subregion (LRR or MLRA):	LRR L	Lat: 43.150355	5 Long:	-78.164218	33 Datun	n: WGS 1984
Soil Map Unit Name:	Odessa silt	loam, 0 to 3 percent slope		NWI classification	on: Pl	FO1B
Are climatic / hydrologic conditi	ions on the site typical for this t	ime of year? Yes X	No (If no,	explain in Remark	(S.)	
Are Vegetation X , Soil	, or Hydrology	significantly disturbed?	Are "Normal Circ	umstances" prese	ent? Yes)	K No
Are Vegetation, Soil	, or Hydrology	naturally problematic?	(If needed, expla	in any answers in	Remarks.)	
SUMMARY OF FINDING	SS - Attach site map sh	owing sampling point lo	cations, transec	ts, important	features, etc.	
Hydrophytic Vegetation Pres	ent? Yes X	No Is the	Sampled Area			
Hydric Soil Present?	Yes X	No withir	n a Wetland?	Yes X	No	
Wetland Hydrology Present?	Yes X	No If yes,	optional Wetland Site	ID:		
Remarks: (Explain alternativ Wetland occurs ruts providing to	e procedures here or in a sepa s on the edge of agriculture field opographic relief for some upla	rate report.) J. Woody plants that once occur nd plants.	red here have been cu	it down and piled	up using heavy equ	uipment, deep
HYDROLOGY						
Wetland Hydrology Indicat	ors:					
Primary Indicators (minimum	of one required; check all that	apply)		Secondary Indica	ators (minimum of t	wo required)
X Surface Water (A1)	_	Water-Stained Leaves (B9)		Surface Soi	l Cracks (B6)	
X High Water Table (A2)	_	Aquatic Fauna (B13)		X Drainage Pa	atterns (B10)	
X Saturation (A3)	—	Marl Deposits (B15)		Moss Trim L	Lines (B16)	
Water Marks (BT) Sodimont Donosite (P2)	·	Aydrogen Sunde Odor (CT)	a Poote (C2)	Dry-Season		
Drift Deposits (B3))	Presence of Peduced Iron (C4)	ig Rools (C3)	Crayiish Bu	/isible on Aerial Im	ageny (CQ)
Algal Mat or Crust (B4)	—	Recent Iron Reduction in Tilled	Soils (C6)	Stunted or S	Stressed Plants (D1	
X Iron Deposits (B5)	—	Thin Muck Surface (C7)		X Geomorphic	Position (D2)	')
Inundation Visible on A	erial Imagery (B7)	Other (Explain in Remarks)		Shallow Ag	uitard (D3)	
Sparsely Vegetated Co	ncave Surface (B8)			X Microtopogr	aphic Relief (D4)	
				FAC-Neutra	I Test (D5)	
Field Observations:	Vee V Ne	Depth (inches):				
Surface Water Present?		Depth (inches): 4	_			
Saturation Present?		Depth (inches): 0	Wotland Hydr	ology Procont?	Vec X	No
(includes capillary fringe)				ology Flesent?		NO
(includes capillary innge)						
Describe Recorded Data (str	eam gauge, monitoring well, a	erial photos, previous inspectior	s), if available:			
Demodes						
Remarks:						
1						

Sampling Point: 66W10-01W

<u>Tree Stratum</u> (Plot size: <u>30 Feet</u>) 1	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: 2 Total Number of Dominant Species Across All Strate: 4
2			<u> </u>	
3 4 5				Percent of Dominant Species That Are OBL, FACW, or FAC: 50.0 (A/B)
6			- <u> </u>	Prevalence Index worksheet:
7		- Total Cav		Total % Cover of: Multiply by:
Conling/Chrub Stratum (Dist size: 15 Fast)	0		er	OBL species 10 x 1 =10
				FACW species $5 x^2 = 10$
2				FAC species $0 \times 3 = 0$
3				FACU species $5 \times 4 = 20$
4				UPL species $5 \times 5 = 25$
5			·	Column lotals: 25 (A) 65 (B)
6				Prevalence Index = B/A =2.6
7				
Llorb Stratum (Distaire) E Foot	0		er	Hydrophytic vegetation indicators:
Herb Stratum (Plot size: 5 Feet)	10	Vaa		Perminence Test in ESCOV
Ranunculus sceleratus / Cursed crowiool	 	Yes		2 - Dominance Test is >50%
2. Taraxacum onicinale / Red seeded dandellon, Common dan	5	Yee		∧ 5 - Prevalence index ≤5.0° 4. Membelogical Adapteticanal (Dravide supporting)
Corpus alba / Red osier	5	Voc		4 - Morphological Adaptations' (Provide Supporting Dependence Supporting
	5	Tes	FACW	
6			·	Indicators of hydric soil and wetland hydrology must
7				halcalors of hydric soil and weitand hydrology must
8				
9				Definitions of Vegetation Strata
10		_		
11			·	Tree - Woody plants 3 in. (7.6 cm) or more in diameter at
12				breast height (DBH), regardless of height.
	25	= Total Cov	er	Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
Woody Vine Stratum (Plot size: <u>30 Feet</u>) 1.				Herb - All herbaceous (non-woody) plants, regardless of
2.				size, and woody plants less than 3.28 ft tall.
3.				Woody vines - All woody vines greater than 3.28 ft in
4				neight.
	0	_ = Total Cove	er	Hydrophytic Vegetation Prospat2 Yes X No
Remarks: (Explain alternative procedures here or in a separate	report.)			

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Depth	 Matrix	•	Redox	Features			,	
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-10	10YR 4/2	98	10YR 5/4	2	С	PL	Clay Loam	
10-18	10YR 4/6	70	10YR 4/2	30	D	М	Clay Loam	
¹ Type: C=Cor	ncentration, D=Depletic	on, RM=Redu	uced Matrix, MS=Mask	ed Sand Gr	ains.		² Location:	PL=Pore Lining, M=Matrix.
Undria Cail I	u dia ata ya j						Indiantana fan I	Drahlamatia Uudria Caila%
Hyaric Soli I	ndicators:		Dalasaka Dalas	0			Indicators for	
Histosol	(A1)		Polyvalue Below			,MLRA 14	3B) 2 cm Much	(A10) (LRR K, L, MLRA 149B)
HISTIC Ep	olpedon (A2)			ce (59) (LR		a 149B)	Coast Prai	Ine Redox (A16) (LRR K, L, R)
	SIIC (A3)			Ineral (FT)	(LKK K, L)			
Hydroge			Loany Gleyed N				Dark Suria	
Stratilied	d Bolow Dark Surface (A 11)		(F3) faco (E6)			Polyvalue	Surface (S0) (LRR R, L)
		ATT)	Redux Dark Sul					
	AIK SUITACE (ATZ)		Depieted Dark 3				lion-many	Electric Soile (F12) (LRR R, L, R)
Sandy iv	Noved Metrix (S1)			UIIS (FO)			Pleamont	
Sandy G							Mesic Spo	Material (E21)
Sandy R	(SS)							
Stripped							Very Shall	ow Dark Sufface (TF12)
Dark Su	mace (S7) (LRR R, MI	_RA 149B)						Diain in Remarks)
³ Indicators of	hydrophytic vegetation	and wetland	l hvdrology must be pr	esent. unles	ss disturbed	d or probler	matic.	
	, , , , , , , , , , , , , , , , , , , ,		, , , , , , , , , , , , , , , , , , , ,			•		
Restrictive L	ayer (if observed):							
Туре:								
Depth (in	ches):						Hydric Soil Prese	nt? Yes X No
Remarks:								
rtomano.								

Project/Site:	16153 Heritage Wind	Citv/Cou	unty: Town of I	Barre. Orleans Countv	Sampling Date: 04/20/2022
Applicant/Owner:	F	leritage Wind, LLC		State: New York	Sampling Point: 66W10-02W
Investigator(s):	JB BA	Section,	Township, Range:	Tov	wn of Barre
Landform (hillslope, terrad	ce, etc): Depressio	Local relief (cond	cave, convex, none):	concave	Slope (%): 0-5
Subregion (LRR or MLRA	.): LRR L	Lat: 43	15331667	Long: -78.16624	Datum: WGS 1984
Soil Map Unit Name:	Appleto	on silt loam, 0 to 3 percent slo	opes	NWI classification	n: PSS1Bd
Are climatic / hydrologic c	onditions on the site typical for	this time of year? Yes	X No	(If no, explain in Remark	s.)
Are Vegetation	, Soil , or Hydrology	significantly disturbe	ed? Are "N	Jormal Circumstances" prese	nt? Yes X No
Are Vegetation	, Soil, or Hydrology	naturally problemati	c? (If nee	eded, explain any answers in	Remarks.)
SUMMARY OF FINE	DINGS - Attach site ma	o showing sampling p	oint locations,	transects, important	features, etc.
Hydrophytic Vegetation	Present? Yes	X No	Is the Sampled A	Area	
Hvdric Soil Present?	Yes	X No	within a Wetland	Yes X	No
Wetland Hydrology Pre	sent? Yes	X No	If ves. optional W	etland Site ID:	66W10 - PFO
			, , . ,		
Remarks: (Explain alter	native procedures here or in a	separate report.)			
HYDROLOGY					
Wetland Hydrology In	dicatore				
Primary Indicators (min	imum of one required: check s	ll that apply)		Secondary Indica	tors (minimum of two required)
X Surface Water (A1		X Water-Stained Leaves	(B9)	Surface Soil	Cracks (B6)
High Water Table	γ (Δ2)	Aquatic Fauna (B13)	(83)	Drainage Pa	offactors (B10)
Saturation (A3)	(, v _)	Marl Deposits (B15)		Moss Trim L	ines (B16)
Water Marks (B1)		Hydrogen Sulfide Odo	r (C1)	Dry-Season	Water Table (C2)
Sediment Deposite	s (B2)	Oxidized Rhizosphere	s on Living Roots (C:	3) Cravfish Bur	$\frac{1}{1000} \frac{1}{1000} \frac{1}{1000$
Drift Deposits (B3))	X Presence of Reduced	Iron (C4)	Saturation V	isible on Aerial Imagery (C9)
X Algal Mat or Crust	(B4)	Recent Iron Reduction	in Tilled Soils (C6)	Stunted or S	tressed Plants (D1)
Iron Deposits (B5)	(= .)	Thin Muck Surface (C7	7)	Geomorphic	Position (D2)
Inundation Visible	on Aerial Imagery (B7)	Other (Explain in Rema	, arks)	Shallow Aqu	litard (D3)
Sparsely Vegetate	d Concave Surface (B8)		/	Microtopogr	aphic Relief (D4)
				X FAC-Neutral	Test (D5)
Field Observations:					
Surface Water Present	? Yes <u>X</u> No _	Depth (inches):	2		
Water Table Present?	Yes No	X Depth (inches):			
Saturation Present?	Yes <u>No</u>	X Depth (inches):	Wet	tland Hydrology Present?	Yes X No
(includes capillary fring	e)				
Describe Recorded Dat	ta (stream gauge, monitoring v	vell. aerial photos, previous ir	nspections), if availa	ble:	
	a (ou can gaago, montonig t		iopooliono), ii aralla		
Remarks:					
Water coll	ecting in depressions				

Sampling Point: 66W10-02W

Tree Stratum (Plot size: 30 Feet)	Absolute % Cover	Dominant	Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: 3
Fraxinus pennsylvanica / Green ash	35	Yes	FACW	Total Number of Dominant Species Across All Strata:4 (B)
3				Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
6 7				Prevalence Index worksheet:
	35	= Total Cov	er	$\frac{1011\% \text{ Cover of:}}{\text{OBL species}} \qquad 0 \qquad \text{ x 1 = } 0$
Sapling/Shrub Stratum (Plot size: 15 Feet)		-		FACW species $65 \times 2 = 130$
1. Lonicera morrowii / Morrow's honeysuckle	30	Yes	FACU	FAC species $20 \times 3 = 60$
2. Cornus amomum / Silky dogwood	30	Yes	FACW	FACU species $30 \times 4 = 120$
3. Rhamnus cathartica / European buckthorn	15	No	FAC	UPL species 5 $x 5 = 25$
4. Cornus sericea / American dogwood	5	No	NI	Column Totals: 120 (A) 335 (B)
5				
6				Prevalence Index = B/A = 2.79
7				
	80	= Total Cov	er	Hydrophytic Vegetation Indicators:
Herb Stratum (Plot size: 5 Feet)	_			1 - Rapid Test for Hydrophytic Vegetation
1. Geum canadense / White avens	5	Yes	FAC	$\frac{X}{2}$ - Dominance Test is >50%
2				X 3 - Prevalence Index $\leq 3.0^{1}$
3				4 - Morphological Adaptations ¹ (Provide supporting
4				Problematic Hydrophytic Vegetation ¹ (Explain)
5				
6				¹ Indicators of hydric soil and wetland hydrology must
7				be present, unless disturbed or problematic.
8				Definitions of Vegetation Strata
9				Demitions of Vegetation of all
10 11			- <u> </u>	Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
12	5	= Total Cov	er	Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
				Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
3				Woody vines - All woody vines greater than 3.28 ft in
3				height.
т	0	= Total Cov	er	
				Hydrophytic Vegetation Present? Yes X No
Remarks: (Explain alternative procedures here or in a separate Tree stratum includes 10% malus sp. Herbaceous	e report.) s stratum als	o contains m	oss and Carex	k sp.

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Profile Desci	ription: (Describe to t	he depth nee	eded to document th	e indicator	or confirm	the absei	nce of indicators.)	
Depth	Matrix	0/	Color (moint)		Turnel	1 0 0 2	Toyturo	Demorke
		98		2	Type			Remarks
12-18	10YR 5/6	97	10YR 5/8	3	<u> </u>	M	Clay Loam	
12 10	1011(0/0		1011(0/0					
		·		·	·		,	
		·		·				
		·						
				<u></u>				
		DM-Dodu	and Matrix MS=Maal				21 agotion: DL	-Dero Liping M-Matrix
Type: C=Cor	icentration, D=Depletio	n, RM=Redu	ced Matrix, MS=Mash	ed Sand Gr	ains.		Location: PL	=Pore Lining, M=Matrix.
Hydric Soil I	ndicators:						Indicators for Pro	blematic Hydric Soils ³ :
Histosol	(A1)		Polyvalue Below	/ Surface (S	8) (LRR R	,MLRA 149	9B) 2 cm Muck (A	10) (LRR K, L, MLRA 149B)
Histic Ep	pipedon (A2)		Thin Dark Surfa	ce (S9) (LR	RRR, MLR	A 149B)	Coast Prairie	Redox (A16) (LRR K, L, R)
Black His	stic (A3)		Loamy Mucky N	lineral (F1)	(LRR K, L)		5 cm Mucky F	Peat or Peat (S3) (LRR K, L, R)
Hydroge	n Sulfide (A4)		Loamy Gleyed M	Aatrix (F2)			Dark Surface	(S7) (LRR K, L)
Stratified	l Layers (A5)		Depleted Matrix	(F3) false (F0)			Polyvalue Bel	ow Surface (S8) (LRR K, L)
Depleted	Below Dark Surface (A	A11)	X Redox Dark Sur					
Thick Da	Irk Surface (ATZ)		Depieted Dark 3				Iron-Mangane	se Masses (F12) (LRR R, L, R)
Sandy G	loved Matrix (S1)			0115 (FO)			Mesic Spodic	(TA6) (MI DA 144A 145 149B)
Sandy B	edox (S5)						Red Parent M	aterial (F21)
Stripped	Matrix (S6)						Very Shallow	Dark Surface (TE12)
Dark Sur	face (S7) (LRR R. MI	RA 149B)					Other (Explain	in Remarks)
	(,,	,					<u> </u>	
³ Indicators of	hydrophytic vegetation	and wetland	hydrology must be p	resent, unles	ss disturbed	d or probler	natic.	
Restrictive L	ayer (if observed):							
Type:								
Depth (ind	ches):		<u> </u>				Hydric Soil Present?	Yes X No
Remarks:								

Project/Site:	16153 Heritage Wind	City/Cou	Inty: Town of Barre,	Orleans County	Sampling Date: 04/20/2022
Applicant/Owner:	He	ritage Wind, LLC	, <u> </u>	State: New York	Sampling Point: 66W10/11-02U
Investigator(s):	JB BA	Section,	Township, Range:	To	wn of Barre
Landform (hillslope, terrace,	etc): Flat	Local relief (cond	ave, convex, none):	none	Slope (%): 0-5
Subregion (LRR or MLRA):	LRR L	Lat: 4	3.15303 Long:	-78.166691	67 Datum: WGS 1984
Soil Map Unit Name:	Appleton	silt loam, 0 to 3 percent slo	opes	NWI classification	on: N/A
Are climatic / hydrologic con	ditions on the site typical for the	nis time of year? Yes	X No (If	no, explain in Remark	is.)
Are Vegetation X , S	oil , or Hydrology	significantly disturbe	d? Are "Normal	Circumstances" prese	ent? Yes X No
Are Vegetation , S	oil , or Hydrology	naturally problemati	c? (If needed, e	xplain any answers in	Remarks.)
SUMMARY OF FINDIN	NGS - Attach site map	showing sampling p	oint locations, trans	sects, important	features, etc.
Hydrophytic Vegetation Pr	resent? Yes	No X	Is the Sampled Area		· · · · · ·
Hydric Soil Present?	Yes		within a Wetland?	Yes	No X
Wetland Hydrology Prese	nt? Yes		If ves, optional Wetland	Site ID:	
Remarks: (Explain alterna Active agricu	tive procedures here or in a s ilture field, soils regularly plow	eparate report.) ed, vegetation harvested.			
HYDROLOGY					
Wetland Hydrology India	cators:				
Primary Indicators (minim	um of one required; check all	that apply)		Secondary Indica	ators (minimum of two required)
Surface Water (A1)		Water-Stained Leaves	(B9)	Surface Soi	I Cracks (B6)
High Water Table (A2	2)	Aquatic Fauna (B13)	. ,	Drainage Pa	atterns (B10)
Saturation (A3)	-	Marl Deposits (B15)		Moss Trim L	ines (B16)
Water Marks (B1)	-	Hydrogen Sulfide Odor	(C1)	Dry-Season	Water Table (C2)
Sediment Deposits (I	B2)	Oxidized Rhizospheres	on Living Roots (C3)	Crayfish Bu	rrows (C8)
Drift Deposits (B3)	_	Presence of Reduced	ron (C4)	Saturation V	/isible on Aerial Imagery (C9)
Algal Mat or Crust (B		Recent Iron Reduction	in Tilled Soils (C6)	Stunted or S	Stressed Plants (D1)
Iron Deposits (B5)	_	Thin Muck Surface (C7	')	Geomorphic	c Position (D2)
Inundation Visible on	Aerial Imagery (B7)	Other (Explain in Rema	arks)	Shallow Aqu	uitard (D3)
Sparsely Vegetated (Concave Surface (B8)			Microtopogr	aphic Relief (D4)
				FAC-Neutra	l Test (D5)
Field Observations:					
Surface Water Present?	Yes No)	(Denth (inches):			
Water Table Present?	Yes No >	C Depth (inches):			
Saturation Present?	Yes No >	C Depth (inches):	Wetland H		Yes No X
(includes capillary fringe)				iyarology i resent.	
Describe Recorded Data	(stream gauge, monitoring we	ll, aerial photos, previous ir	spections), if available:		
Domorko:					
Remarks:					

Sampling Point: 66W10/11-02U

	Absolute	Dominant	Indicator	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)
Tree Stratum (Plot size:	% Cover	Species?	Status	Total Number of Dominant Species Across All Strata:1 (B)
3. 4. 5.				Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0 (A/B)
6 7				Prevalence Index worksheet: Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15 Feet) 1.		_ = Total Cov	er 	OBL species0 $x 1 =$ 0FACW species0 $x 2 =$ 0FAC species0 $x 3 =$ 0FACU species0 $x 4 =$ 0UPL species25 $x 5 =$ 125Column Totals:25(A)125
5 6				Prevalence Index = B/A =5.0
7 Herb Stratum (Plot size: 5 Feet)	0	= Total Cov	er	Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation
1. Lamium purpureum / Purple dead nettle 2. 3. 4. 5.	25	Yes	NI	2 - Dominance Test is >50% 3 - Prevalence Index ≤3.01 4 - Morphological Adaptations1 (Provide supporting Problematic Hydrophytic Vegetation1 (Explain)
6				¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
8 9				Definitions of Vegetation Strata
10 11				Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
12	25	= Total Cov	er	Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
woody vine Stratum (Plot size:				Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
3.				Woody vines - All woody vines greater than 3.28 ft in height.
4	0	= Total Cov	er	Hydrophytic Vegetation Present? Yes No X
Remarks: (Explain alternative procedures here or in a separat Grass sp. present, suspsected Glyceria but unat	te report.) ble to identify	due to time o	f year	

0	0		
3	υ	I	L

Profile Desci Depth	ription: (Describe to t Matrix	he depth neede	d to document th Redox	e indicator	or confirm	the absen	ce of indicators.)			
0-18	Color (moist) 10YR 3/3	<u>%</u> <u>100</u> 	Color (moist)				Texture Clay Loam	Remark	5	
¹ Type: C=Cor	ncentration, D=Depletic	on, RM=Reducec	l Matrix, MS=Mask	Led Sand Gra	ains.		²Location: PL=	Pore Lining, M	=Matrix.	
Hydric Soil In Histosol Histic Ep Black His Hydroge Stratified Depletec Thick Da Sandy M Sandy G Sandy R Stripped Dark Sur ³ Indicators of	ndicators: (A1) bipedon (A2) stic (A3) n Sulfide (A4) d Layers (A5) d Below Dark Surface (ark Surface (A12) lucky Mineral (S1) bileyed Matrix (S4) tedox (S5) Matrix (S6) rface (S7) (LRR R, Mill hydrophytic vegetatior	A11)	Polyvalue Below Thin Dark Surfa Loamy Mucky M Loamy Gleyed M Depleted Matrix Redox Dark Sur Depleted Dark S Redox Depressi	v Surface (S8 ce (S9) (LR lineral (F1) (Matrix (F2) (F3) face (F6) Surface (F6) Surface (F7) ons (F8)	3) (LRR R, R R, MLRA LRR K, L)	MLRA 149 (149B) or problem	Indicators for Pro B) 2 cm Muck (A Coast Prairie 5 cm Mucky P Dark Surface Polyvalue Bele Thin Dark Sur Iron-Mangane Piedmont Floc Mesic Spodic Red Parent M Very Shallow Other (Explair natic.	blematic Hydri 10) (LRR K, L, Redox (A16) (I eat or Peat (S3 (S7) (LRR K, I bw Surface (S8) face (S9) (LRF se Masses (F12 odplain Soils (F1 (TA6) (MLRA aterial (F21) Dark Surface (T i in Remarks)	c Soils ³ : MLRA 149B) .RR K, L, R)) (LRR K, L, R) .) (LRR K, L) 2) (LRR K, L, F 9) (MLRA 1498 144A, 145, 1498) B) B)
Restrictive L Type: Depth (inc	ayer (if observed): ches):		_				Hydric Soil Present?	Yes	NoX	
Remarks:										

Project/Site:	16153 Herit	age Wind	City/Cour	ntv: Town (of Barre Orleans County	Sampling Date	· 04/20/2022
Applicant/Owner	To too them	Heritage V		ity: 1000110	State: New Y	ork Sampling Point	* 66W11-01W
Investigator(s):	.IB	BA	Section 7	Township Range	Oldle	Town of Barre	
Landform (hillslope terrad	ce etc):	Toe of slope	Local relief (conce	ave convex non	e). concav		ne (%): 3-7
Subregion (LRR or MLRA): L	RRL	Lat: 43.	.153705	Long: -78.16	0.0 0771833 Da ⁱ	tum: WGS 1984
Soil Map Unit Name:		Hilton loam.	3 to 8 percent slopes		NWI class	ification:	N/A
Are climatic / hydrologic c	onditions on the site	typical for this time	of year? Yes >	K No	(If no, explain in Re	emarks.)	
Are Vegetation X	, Soil , or H	-lydrology :	significantly disturbed	l? Are	"Normal Circumstances"	present? Yes	X No
Are Vegetation	, Soil , or H	-lydrology I	naturally problematic	? (lfn	leeded, explain any answ	ers in Remarks.)	
	DINGS - Attach	site map show	ing sampling po	oint location	s. transects. import	tant features, etc	
	Precent?	Vec X N		le the Sample	<u>d Aroa</u>	,,	
Hydrophylic Vegetation Hydric Soil Present?	rresent?		0	within a Wotla	u Alea and? Vec	X No	
Wetland Hydrology Pre	sent?	Yes X N			Wetland Site ID:	<u></u>	
weitand Hydrology Fre	Sent:		°			000011	
Remarks: (Explain alter Active agr	rnative procedures h iculture field. Deep ı	ere or in a separate ruts, standing water.	ereport.) . Stunted vegetation,	normally harves	ted.		
HYDROLOGY							
Wetland Hydrology In	dicators:						
Primary Indicators (min	imum of one require	d: check all that ap	nlv)		Secondary	Indicators (minimum (of two required)
X Surface Water (A1)	Wa	ter-Stained Leaves (I	B9)	Surfac	e Soil Cracks (B6)	
High Water Table	(A2)	Aq	uatic Fauna (B13)	/	Draina	age Patterns (B10)	
Saturation (A3)	、	 Ma	rl Deposits (B15)		Moss	Trim Lines (B16)	
Water Marks (B1)		Hy	drogen Sulfide Odor ((C1)	Dry-Se	eason Water Table (C2	2)
Sediment Deposits	s (B2)	Ox	idized Rhizospheres	on Living Roots	(C3) Crayfi	sh Burrows (C8)	
Drift Deposits (B3))	Pre	esence of Reduced In	on (C4)	Satura	ation Visible on Aerial	Imagery (C9)
X Algal Mat or Crust	(B4)	Re	cent Iron Reduction ir	n Tilled Soils (C6	i) X Stunte	d or Stressed Plants ((D1)
Iron Deposits (B5)		Thi	n Muck Surface (C7)		Geom	orphic Position (D2)	
Inundation Visible	on Aerial Imagery (I	37) Oth	ıer (Explain in Remar	rks)	Shallo	w Aquitard (D3)	
Sparsely Vegetate	d Concave Surface	(B8)			Microt	opographic Relief (D4)
					X FAC-N	leutral Test (D5)	
Surface Water Present			anth (inchas):	4			
Water Table Present?	r fes /		epth (inches):	4			
Saturation Procent?	Yes		eptri (inches).		Votland Hydrology Proc	ant? Voc V	No
(includes capillary fring	e)		eptir (inches).	<u> </u>	reliand hydrology Prese	$\frac{1}{2}$ $\frac{1}$	
	e)						
Describe Recorded Dat	ta (stream gauge, m	onitoring well, aeria	I photos, previous ins	spections), if ava	ilable:		
		C		•			
Remarks:							

Sampling Point: 66W11-01W

Tree Stratum (Plot size:	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: 1 Total Number of Dominant Species Across All Strata: 1 (B)
2				Percent of Dominant Species That Are OBL, FACW, or FAC:100.0 (A/B)
67 Sapling/Shrub Stratum (Plot size: 15 Feet)	0	= Total Cov	er	Prevalence Index worksheet:Total % Cover of:Multiply by:OBL species 5 $x 1 = 5$ FACW species 0 $x 2 = 0$
1. 2. 3. 4.				FAC species0 $x = 0$ FACU species0 $x = 0$ UPL species0 $x = 0$ Column Totals:5(A)(A)5(B)
6 7				Prevalence Index = B/A =1.0
Herb Stratum (Plot size: 5 Feet) 1. Ranunculus sceleratus / Cursed crowfoot 2	0 5 	_ = Total Cov Yes	er OBL	Hydrophytic Vegetation Indicators: X 1 - Rapid Test for Hydrophytic Vegetation X 2 - Dominance Test is >50% X 3 - Prevalence Index ≤3.01 4 - Morphological Adaptations1 (Provide supporting Problematic Hydrophytic Vegetation 1 (Explain)
5 6 7 8				¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
9				Definitions of Vegetation Strata Tree - Woody plants 3 in. (7.6 cm) or more in diameter at
12	5	= Total Cov	er	breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3 28 ff (1 m) tall
Woody Vine Stratum (Plot size:				Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
3. 4.				Woody vines - All woody vines greater than 3.28 ft in height.
	0	_ = Total Cov	er	Hydrophytic Vegetation Present? Yes X No
Remarks: (Explain alternative procedures here or in a separa	te report.)			

_	-	
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_	ີ	_
_	_	

Depth	Matrix	•	Redox	Features			,	
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-9	10YR 2/1	98	10YR 5/6	2	С	М	Clay Loam	
				<u> </u>				
		_						
		_						
		_						
'Type: C=Con	centration, D=Depletion	on, RM=Red	duced Matrix, MS=Masl	ked Sand Gr	ains.		² Location	n: PL=Pore Lining, M=Matrix.
Hydric Soil Ir	idicators:						Indicators fo	or Problematic Hydric Soils ³ :
Histosol	(A1)		Polyvalue Belov	v Surface (S	8) (LRR R ,	MLRA 149	9B) 2 cm Mu	uck (A10) (LRR K, L, MLRA 149B)
Histic Ep	ipedon (A2)		Thin Dark Surfa	ce (S9) (LR	RR R, MLRA	A 149B)	Coast Pi	rairie Redox (A16) (LRR K, L, R)
Black His	stic (A3)		Loamy Mucky M	lineral (F1)	(LRR K, L)		5 cm Mu	ucky Peat or Peat (S3) (LRR K, L, R)
Hydroger	n Sulfide (A4)		Loamy Gleyed I	Matrix (F2)			Dark Su	rface (S7) (LRR K, L)
Stratified	Layers (A5)		Depleted Matrix	(F3)			Polyvalu	ie Below Surface (S8) (LRR K, L)
Depleted	Below Dark Surface	(A11)	X Redox Dark Su	face (F6)			Thin Dar	rk Surface (S9) (LRR K, L)
Thick Da	rk Surface (A12)		Depleted Dark S	Surface (F7)			Iron-Mar	nganese Masses (F12) (LRR K, L, R)
Sandy M	ucky Mineral (S1)		Redox Depress	ions (F8)			Piedmor	nt Floodplain Soils (F19) (MLRA 149B)
Sandy G	leyed Matrix (S4)						Mesic S	podic (TA6) (MLRA 144A, 145, 149B)
Sandy R	edox (S5)						Red Par	ent Material (F21)
Stripped	Matrix (S6)						Very Sha	allow Dark Surface (TF12)
Stripped Dark Sur	Matrix (S6) face (S7) (LRR R, M	LRA 149B)					Very Sha	allow Dark Surface (TF12) Explain in Remarks)
Stripped Dark Sur	Matrix (S6) face (S7) (LRR R, M	LRA 149B)	nd hydrology must be n	resent unles	ss disturbed	l or probler	Very Sha Other (E	allow Dark Surface (TF12) xplain in Remarks)
Stripped Dark Sur ³ Indicators of I	Matrix (S6) face (S7) (LRR R, M hydrophytic vegetatior	LRA 149B) n and wetlar	nd hydrology must be p	resent, unles	ss disturbed	l or probler	Very Sha Other (E natic.	allow Dark Surface (TF12) Explain in Remarks)
Stripped Dark Sur ³ Indicators of I Restrictive La	Matrix (S6) face (S7) (LRR R, M hydrophytic vegetation ayer (if observed):	LRA 149B)	nd hydrology must be p	resent, unles	ss disturbed	l or probler	Very Sha Other (E natic.	allow Dark Surface (TF12) Explain in Remarks)
Stripped Dark Sur ³ Indicators of I Restrictive La Type: Dont	Matrix (S6) face (S7) (LRR R, M hydrophytic vegetation ayer (if observed): compacted	LRA 149B) n and wetlar	nd hydrology must be p	resent, unles	ss disturbed	l or probler	Very Sha Other (E natic.	allow Dark Surface (TF12) Explain in Remarks)
Stripped Dark Sur Indicators of d Call Strictive La Type: Depth (inc	Matrix (S6) face (S7) (LRR R, M hydrophytic vegetation ayer (if observed): compacted ches):	LRA 149B) n and wetlar <u>clay</u> 9	nd hydrology must be p	resent, unles	es disturbed	l or probler	Very Sha Other (E natic. Hydric Soil Pres	allow Dark Surface (TF12) Explain in Remarks)
Stripped Dark Sur ³ Indicators of I Restrictive La Type: Depth (inc	Matrix (S6) face (S7) (LRR R, M hydrophytic vegetation ayer (if observed): compacted ches):	LRA 149B) n and wetlar <u>clay</u> 9	nd hydrology must be p	resent, unles	as disturbed	l or probler	Very Sha Other (E natic. Hydric Soil Pres	allow Dark Surface (TF12) Explain in Remarks) Sent? Yes <u>X</u> No
Stripped Dark Sur *Indicators of I Restrictive La Type: Depth (inc Remarks:	Matrix (S6) face (S7) (LRR R, M hydrophytic vegetation ayer (if observed): compacted ches): Compacted soil at 9"	LRA 149B) n and wetlar <u>clay</u> 9	nd hydrology must be p	resent, unles	ss disturbed	l or probler	Very Sha Other (E natic. Hydric Soil Pres	allow Dark Surface (TF12) Explain in Remarks)
Stripped Dark Sur alndicators of I Restrictive Li Type: Depth (inc Remarks:	Matrix (S6) face (S7) (LRR R, M hydrophytic vegetation ayer (if observed): compacted ches): Compacted soil at 9"	LRA 149B) n and wetlar <u>clay</u> 9	nd hydrology must be p	resent, unles	ss disturbed	l or probler	Very Sha Other (E natic. Hydric Soil Pres	allow Dark Surface (TF12) Explain in Remarks)
Stripped Dark Sur alndicators of I Restrictive L a Type: Depth (inc Remarks:	Matrix (S6) face (S7) (LRR R, M hydrophytic vegetation ayer (if observed): compacted ches): Compacted soil at 9"	LRA 149B) n and wetlar <u>clay</u> 9	nd hydrology must be p	resent, unles	ss disturbed	l or probler	Very Sha Other (E natic. Hydric Soil Pres	allow Dark Surface (TF12) Explain in Remarks)
Stripped Dark Sur ³ Indicators of [Restrictive La Type: Depth (inc Remarks:	Matrix (S6) face (S7) (LRR R, M hydrophytic vegetation ayer (if observed): compacted ches): Compacted soil at 9"	LRA 149B) n and wetlar <u>clay</u> 9	nd hydrology must be p	resent, unles	ss disturbed	l or probler	Very Sha Other (E natic. Hydric Soil Pres	allow Dark Surface (TF12) Explain in Remarks)
Stripped Dark Sur ³ Indicators of I Restrictive La Type: Depth (inc Remarks: (Matrix (S6) face (S7) (LRR R, M hydrophytic vegetation ayer (if observed): compacted compacted soil at 9"	LRA 149B) n and wetlar clay 9	nd hydrology must be p	resent, unles	ss disturbed	l or probler	Very Sha Other (E natic. Hydric Soil Pres	allow Dark Surface (TF12) Explain in Remarks)
Stripped Dark Sur ³ Indicators of I Restrictive L a Type: Depth (inc Remarks: (Matrix (S6) face (S7) (LRR R, M hydrophytic vegetation ayer (if observed): compacted ches): Compacted soil at 9"	LRA 149B) n and wetlar clay 9	nd hydrology must be p	resent, unles	ss disturbed	l or probler	Very Sha Other (E natic. Hydric Soil Pres	allow Dark Surface (TF12) Explain in Remarks)
Stripped Dark Sur ³ Indicators of I Restrictive L a Type: Depth (inc Remarks:	Matrix (S6) face (S7) (LRR R, M hydrophytic vegetation ayer (if observed): compacted ches): Compacted soil at 9"	LRA 149B) n and wetlar clay 9	nd hydrology must be p	resent, unles	ss disturbed	l or probler	Very Sha Other (E natic. Hydric Soil Pres	allow Dark Surface (TF12) Explain in Remarks)
Stripped Dark Sur Indicators of I Restrictive La Type: Depth (inc Remarks:	Matrix (S6) face (S7) (LRR R, M hydrophytic vegetation ayer (if observed): compacted thes): Compacted soil at 9"	LRA 149B) n and wetlar clay 9	nd hydrology must be p	resent, unles	as disturbed	l or probler	Very Sha Other (E natic. Hydric Soil Pres	allow Dark Surface (TF12) Explain in Remarks)
Stripped Dark Sur Indicators of I Restrictive La Type: Depth (inc Remarks:	Matrix (S6) face (S7) (LRR R, M hydrophytic vegetation ayer (if observed): compacted thes): Compacted soil at 9"	LRA 149B) n and wetlar clay 9	nd hydrology must be p	resent, unles	as disturbed	l or probler	Very Sha Other (E natic. Hydric Soil Pres	allow Dark Surface (TF12) Explain in Remarks)
Stripped Dark Sur ³ Indicators of I Restrictive L i Type: Depth (inc Remarks:	Matrix (S6) face (S7) (LRR R, M hydrophytic vegetation ayer (if observed): compacted thes): Compacted soil at 9"	LRA 149B) n and wetlar clay 9	nd hydrology must be p	resent, unles	as disturbed	l or probler	Very Sha Other (E natic. Hydric Soil Pres	allow Dark Surface (TF12) Explain in Remarks)
Stripped Dark Sur ³ Indicators of (Restrictive L i Type: Depth (inc Remarks: (Matrix (S6) face (S7) (LRR R, M hydrophytic vegetation ayer (if observed): compacted ches): Compacted soil at 9"	LRA 149B) n and wetlar clay 9	nd hydrology must be p	resent, unles	as disturbed	l or probler	Very Sha Other (E natic. Hydric Soil Pres	allow Dark Surface (TF12) Explain in Remarks)
Stripped Dark Sur ³ Indicators of . Restrictive L i Type: Depth (inc Remarks: (Matrix (S6) face (S7) (LRR R, M hydrophytic vegetation ayer (if observed): compacted ches): Compacted soil at 9"	LRA 149B) n and wetlar clay 9	nd hydrology must be p	resent, unles	es disturbed	l or probler	Very Sha Other (E natic. Hydric Soil Pres	allow Dark Surface (TF12) Explain in Remarks)
Stripped Dark Sur ³ Indicators of Restrictive L i Type: Depth (inc Remarks: (Matrix (S6) face (S7) (LRR R, M hydrophytic vegetation ayer (if observed): compacted ches): Compacted soil at 9"	LRA 149B) n and wetlar clay 9	nd hydrology must be p	resent, unles	es disturbed	l or probler	Very Sha Other (E natic. Hydric Soil Pres	allow Dark Surface (TF12) Explain in Remarks)
Stripped Dark Sur ^s Indicators of Restrictive L i Type: Depth (inc Remarks: (Matrix (S6) face (S7) (LRR R, M hydrophytic vegetation ayer (if observed): compacted ches): Compacted soil at 9"	LRA 149B) n and wetlar clay 9	nd hydrology must be p	resent, unles	es disturbed	l or probler	Very Sha Other (E natic. Hydric Soil Pres	allow Dark Surface (TF12) Explain in Remarks)
Stripped Dark Sur ^s Indicators of Restrictive L i Type: Depth (inc Remarks:	Matrix (S6) face (S7) (LRR R, M hydrophytic vegetation ayer (if observed): compacted ches): Compacted soil at 9"	LRA 149B) n and wetlar clay 9	nd hydrology must be p	resent, unles	ss disturbed	l or probler	Very Sha Other (E natic. Hydric Soil Pres	allow Dark Surface (TF12) Explain in Remarks) Sent? Yes X No
Stripped Dark Sur ³ Indicators of Restrictive L a Type: Depth (inc Remarks: (Matrix (S6) face (S7) (LRR R, M hydrophytic vegetation ayer (if observed): compacted ches): Compacted soil at 9"	LRA 149B) n and wetlar clay 9	nd hydrology must be p	resent, unles	ss disturbed	l or probler	Very Sha Other (E natic. Hydric Soil Pres	allow Dark Surface (TF12) Explain in Remarks) Sent? Yes X No
Stripped Dark Sur alndicators of Restrictive La Type: Depth (inc Remarks: (Matrix (S6) face (S7) (LRR R, M hydrophytic vegetation ayer (if observed): compacted ches): Compacted soil at 9"	LRA 149B) n and wetlar clay 9	nd hydrology must be p	resent, unles	ss disturbed	l or probler	Very Sha Other (E natic. Hydric Soil Pres	allow Dark Surface (TF12) Explain in Remarks) Sent? Yes X No
Stripped Dark Sur ³ Indicators of Restrictive L a Type: Depth (inc Remarks: (Matrix (S6) face (S7) (LRR R, M hydrophytic vegetation ayer (if observed): compacted ches): Compacted soil at 9"	LRA 149B) n and wetlar clay 9	nd hydrology must be p	resent, unles	ss disturbed	l or probler	Very Sha Other (E natic. Hydric Soil Pres	allow Dark Surface (TF12) Explain in Remarks) Sent? Yes X No
Stripped Dark Sur alindicators of Restrictive L a Type: Depth (inc Remarks:(Matrix (S6) face (S7) (LRR R, M hydrophytic vegetation ayer (if observed): compacted ches): Compacted soil at 9"	LRA 149B) n and wetlar clay 9	nd hydrology must be p	resent, unles	ss disturbed	l or probler	Very Sha Other (E natic. Hydric Soil Pres	allow Dark Surface (TF12) Explain in Remarks) Sent? Yes X No
Stripped Dark Sur PIndicators of Restrictive Li Type: Depth (inc Remarks:(Matrix (S6) face (S7) (LRR R, M hydrophytic vegetation ayer (if observed): compacted ches): Compacted soil at 9"	LRA 149B) n and wetlar clay 9	nd hydrology must be p	resent, unles	es disturbed	l or probler	Very Sha Other (E natic. Hydric Soil Pres	allow Dark Surface (TF12) Explain in Remarks) Sent? Yes X No
Stripped Dark Sur PIndicators of Restrictive Li Type: Depth (inc Remarks:(Matrix (S6) face (S7) (LRR R, M hydrophytic vegetation ayer (if observed): compacted ches): Compacted soil at 9"	LRA 149B) n and wetlar 9	nd hydrology must be p	resent, unles	es disturbed	l or probler	Very Sha Other (E natic. Hydric Soil Pres	allow Dark Surface (TF12) Explain in Remarks)

Project/Site:	16153 Heritage Wind	City	//County:	Town of Barre, Orle	eans County	Sampling Date:	04/20/2022
Applicant/Owner:	Herita	ge Wind, LLC		St	ate: New York	Sampling Point:	66W12-01W
Investigator(s):	JB BA	Sec	tion, Township,	Range:	To	wn of Barre	
Landform (hillslope, terrace,	etc): Depression	Local relief (concave, conve	ex, none):	concave	Slope	e (%): 0-5
Subregion (LRR or MLRA):	LRR L	Lat:	43.205575	Long:	-78.1523	Datur	n: WGS 1984
Soil Map Unit Name:		Sun silt loam			NWI classification	on: P	FO1E
Are climatic / hydrologic cond	ditions on the site typical for this	time of year? Yes	1 X <i>i</i>	No (lf no,	explain in Remark	s.)	
Are Vegetation , So	oil , or Hydrology	significantly dist	turbed?	Are "Normal Cir	cumstances" prese	nt? Yes	X No
Are Vegetation , So	, or Hydrology	naturally proble	matic?	(If needed, expla	ain any answers in	Remarks.)	
SUMMARY OF FINDIN	IGS - Attach site map sh	owing samplir	ng point loca	ations, transed	cts, important	features, etc.	
Hydrophytic Vegetation Pr	esent? Yes X	No	Is the S	ampled Area			
Hydric Soil Present?	Yes X	No	within a	Wetland?	Yes X	No	
Wetland Hydrology Preser	103 <u>X</u>	No	lf ves or	ntional Wetland Site	e ID [.]	66W/12	_
Wedding Hydrology Freder			ii yes, o		<u> </u>	001112	
Remarks: (Explain alternat Forested wet	ive procedures here or in a sep- land with hydrologic connection	arate report.) to DEC wetland cor	mplex AL-18 to t	the south and east	connected by serie	s of culverts.	
HYDROLOGY							
Wetland Hydrology Indic	ators:						
Primary Indicators (minimu	um of one required: check all the	t apply)			Secondary Indica	tors (minimum of	two required)
X Surface Water (A1)	X	Water-Stained Lea	aves (B9)		Surface Soil	Cracks (B6)	
X High Water Table (A2)	Aquatic Fauna (B1	13)		Drainage Pa	atterns (B10)	
X Saturation (A3)	·	Marl Deposits (B1	5)		Moss Trim L	ines (B16)	
X Water Marks (B1)	—	Hydrogen Sulfide	Odor (C1)		Dry-Season	Water Table (C2)	
Sediment Deposits (E		Oxidized Rhizosph	neres on Living	Roots (C3)	Crayfish Bu	rows (C8)	
Drift Deposits (B3)		Presence of Redu	ced Iron (C4)		Saturation V	isible on Aerial Im	agery (C9)
Algal Mat or Crust (B4	4)	Recent Iron Reduc	ction in Tilled Sc	oils (C6)	Stunted or S	tressed Plants (D	1)
Iron Deposits (B5)		Thin Muck Surface	e (C7)		Geomorphic	Position (D2)	
Inundation Visible on	Aerial Imagery (B7)	Other (Explain in F	Remarks)		Shallow Aqu	itard (D3)	
Sparsely Vegetated C	oncave Surface (B8)				Microtopogr	aphic Relief (D4)	
					X FAC-Neutra	Test (D5)	
Field Observations							
Surface Water Present?	Yes X No	Dopth (inchos):	2				
Water Table Present?		Depth (inches):	2	-			
Saturation Present?		Depth (inches):	2	- Wotland Hyd	Irology Procent?	Voc V	No
(includes capillary fringe)	fes <u>×</u> No	_ Depth (inches).	0		irology Present?		NO
(includes capillary initige)							
Describe Recorded Data (stream gauge, monitoring well, a	aerial photos, previo	ous inspections)	, if available:			
Remarks:							

Sampling Point: 66W12-01W

	Absolute	Dominant	Indicator	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: 3 (A)
Tree Stratum (Plot size: 30 Feet)	% Cover	Species?	Status	
1. Acer rubrum / Red maple	35	Yes	FAC	
2. Fraxinus pennsylvanica / Green ash	30	Yes	FACW	Species Across All Strata: <u>3</u> (B)
3.				
4.				Percent of Dominant Species
5.				That Are OBL, FACW, or FAC: <u>100.0</u> (A/B)
6.				Drevelance Index worksheet:
7				
	65	= Total Cove		
Sanling/Shrub Stratum (Plot size: 15 Feet)				$\begin{array}{c} \text{OBL species} 0 \text{x1} = 0 \\ \hline \\ \text{TA OWL} \hline \\ \end{array}$
1 Eravinus panasylvanica / Green ash	20	Vec	EA CW	FACW species $50 \times 2 = 100$
	20	163	TAGW	FAC species 35 x 3 =105
2				FACU species 0 x 4 = 0
3				UPL species 0 x 5 = 0
4				Column Totals: 85 (A) 205 (B)
5				
6				Prevalence Index = B/A = 2.41
7				
	20	= Total Cove	er	Hydrophytic Vegetation Indicators:
Herb Stratum (Plot size: 5 Feet)				 Rapid Test for Hydrophytic Vegetation
1				X 2 - Dominance Test is >50%
2.				X 3 - Prevalence Index ≤3.0 ¹
3.				4 - Morphological Adaptations ¹ (Provide supporting
4.				Problematic Hydrophytic Vegetation ¹ (Explain)
5.				
6				¹ Indicators of hydric soil and wetland hydrology must
7				he present unless disturbed or problematic
۰ ۲	·			be present, unless disturbed of problematic.
0	·			Definitions of Vegetation Strata
9				5
10				Tree - Woody plants 3 in (7.6 cm) or more in diameter at
11				breast height (DBH), regardless of height.
12				Sanling/shrub Woody plants less than 3 in DBH and
WeederVine Stratum (Distaire) 20 Feet	0	= Total Cove	er	greater than or equal to 3.28 ft (1 m) tall.
Woody vine Stratum (Piot size: <u>50 Peet</u>)				Herb - All herbaceous (non-woody) plants, regardless of
1				size, and woody plants less than 3.28 ft tall.
2				Woody vines - All woody vines greater than 3.28 ft in
3				height.
4				
	0	= Total Cove	er	Hydrophytic
				Vegetation
				Present? Voc V No
Remarks: (Explain alternative procedures here or in a separate	te report.)			

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Depth	Matrix		Redox	k Features				,		
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture		Remarks	
0-16	10YR 2/1	100					Loam	High orga	nic material com	position
16-18	10YR 5/1	100					Silt Loam			•
					·					
¹ Type: C=Cor	ncentration, D=Depletion	on, RM=Redu	uced Matrix, MS=Masl	ked Sand Gr	ains.		² Loc	ation: PL=P	ore Lining, M=Ma	atrix.
Hvdric Soil I	ndicators:						Indicator	s for Proble	ematic Hvdric S	oils³:
X Histosol	(A1)		Polyvalue Belov	v Surface (St	B) (LRR R.	MLRA 149	B) 2 cm	Muck (A10) (LRR K. L. ML	RA 149B)
Histic Er	pipedon (A2)		Thin Dark Surfa	ce (S9) (LR	R R. MLRA	A 149B)	Coas	st Prairie Re	dox (A16) (LRF	R K. L. R)
Black Hi	stic (A3)		Loamy Mucky M	lineral (F1)	(LRR K. L)		5 cm	Mucky Pea	at or Peat (S3) (I	LRR K. L. R)
Hydroge	n Sulfide (A4)		Loamy Gleved I	Matrix (F2)	(=, =)		Dark	Surface (S	7) (IRR K I)	
Stratified	Lavers (A5)		Depleted Matrix	(E3)			Polv	value Below	/ Surface (S8) (I	RRKI)
Depleter	1 Below Dark Surface (Δ11)	Bedox Dark Su	face (F6)			Thin	Dark Surfa	re (S9) (I RR K	1)
Depicted	ark Surface (A12)		Depleted Dark 9	Surface (F7)			Iron-	Manganese	Masses (E12)	(IRRKIR)
Nick De	lucky Mineral (S1)		Depicted Dark C	ione (E8)			Ried	mont Flood	plain Soils (F10)	
Sandy G	loved Matrix (S4)						Mesi	c Spodic (T	A6) (MI DA 144	(MERA 145B)
Sandy B							Red	Darant Mat		A, 143, 143D)
Strippod	Matrix (S6)									2)
Suippeu	face (S7) (I DD D MI	DA 140D)					Very	r (Evoloin ir	Pomarka)	2)
		LKA 149D)						i (Explain ii	remarks)	
³ Indicators of	hydrophytic vegetation	and wetland	d hydrology must be p	resent, unles	s disturbed	l or problem	atic.			
Restrictive L	ayer (if observed):									
Type:										
Depth (in	ches):						Hydric Soil F	Present?	Yes X	No
Remarks:										

Proiect/Site:	16153 H	eritage Wind	Citv/C	County: Toy	vn of Barre. Orle	eans Countv	Sampling Date:	04/20/2022
Applicant/Owner:		Herita	ge Wind, LLC	·	Sta	ate: New York	Sampling Point:	66W12/13-01U
Investigator(s):		JB BA	Sectio	on, Township, Ra	nge:	To	wn of Barre	
Landform (hillslope, terra	ace, etc):	Foot slope	Local relief (co	oncave, convex, i	none):	convex	Slop	be (%): 2-7
Subregion (LRR or MLR	(A):	LRR L	Lat:	43.20559667	Long:	-78.1527510	67 Dati	um: WGS 1984
Soil Map Unit Name:	·	Ontario Ic	am, 3 to 8 percent slo	opes	0	NWI classification	on:	N/A
Are climatic / hydrologic	conditions on the	site typical for this	time of year? Yes	X No	(If no,	explain in Remark	s.)	
Are Vegetation X	, Soil ,	or Hydrology	significantly distur	rbed?	Are "Normal Cire	cumstances" prese	ent? Yes	X No
Are Vegetation	, Soil ,	or Hydrology	naturally problem	atic?	(If needed, expla	ain any answers in	Remarks.)	
SUMMARY OF FIN	DINGS - Atta	ch site map sh	nowing sampling	point locati	ons, transec	ts, important	features, etc.	
Hydrophytic Vegetatio	n Present?	Yes	No X	Is the Sam	nled Area	· •		
Hydric Soil Present?		Yes		within a W	etland?	Yes	No X	
Wetland Hydrology Pr	resent?	Yes	<u>No X</u>	If ves ontio	nal Wetland Site	= ID [.]		
Wettand Hydrology H				ii 900, opuo				
Remarks: (Explain alt Active aç	ernative procedure griculture field, veç	es here or in a sepa getation is harveste	arate report.) ed. Shared upland poi	nt for W12 and W	/13			
HYDROLOGY								
Wetland Hydrology I	Indicators:							
Primary Indicators (mi	inimum of one rea	uired; check all the	it apply)			Secondary Indica	ators (minimum o	f two required)
Surface Water (A	<u>, 1)</u>		Water-Stained Leave	es (B9)		Surface Soi	I Cracks (B6)	
High Water Table) e (A2)	—	Aquatic Fauna (B13))		Drainage Pa	atterns (B10)	
Saturation (A3)			Marl Deposits (B15)	,		Moss Trim L	ines (B16)	
Water Marks (B1)		Hydrogen Sulfide Od	dor (C1)		Dry-Season	Water Table (C2	.)
Sediment Depos	its (B2)		Oxidized Rhizosphe	res on Living Roo	ots (C3)	Crayfish Bu	rrows (C8)	
Drift Deposits (B	3)		Presence of Reduce	ed Iron (C4)		Saturation \	/isible on Aerial I	magery (C9)
Algal Mat or Crus	st (B4)		Recent Iron Reduction	on in Tilled Soils	(C6)	Stunted or S	Stressed Plants (I	D1)
Iron Deposits (B	5)		Thin Muck Surface (C7)		Geomorphic	Position (D2)	
Inundation Visible	e on Aerial Imager	ry (B7)	Other (Explain in Re	marks)		Shallow Aqu	uitard (D3)	
Sparsely Vegetat	ted Concave Surfa	ace (B8)				Microtopogr	aphic Relief (D4)	1
						FAC-Neutra	l Test (D5)	
Field Observations:								
Surface Water Preser	nt? Vec	No X	Depth (inches):					
Water Table Present?	11.2 165		_ Depth (inches):					
Saturation Present?	Ves		_ Depth (inches):		Wetland Hyd	rology Present?	Ves	No X
(includes capillary frin					wettanu nyu	rology Fresent?	165	
	ge)							
Describe Recorded D	ata (stream gauge	e, monitoring well, a	aerial photos, previous	s inspections), if	available:			
Remarks:								

Sampling Point: 66W12/13-01U

	Absolute	Dominant	Indicator	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)
Tree Stratum (Plot size:	% Cover	Species?	Status	Total Number of Dominant Species Across All Strata: 1 (B)
3. 4. 5.				Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0 (A/B)
6	0	= Total Cove		Prevalence Index worksheet:Total % Cover of:Multiply by:OBL species0 $x 1 = 0$ FACW species0 $x 2 = 0$ FAC species0 $x 3 = 0$ FACU species50 $x 4 = 200$ UPL species0 $x 5 = 0$ Column Totals:50(A)(A)200(B)
6 7				Prevalence Index = B/A =4.0
Herb Stratum (Plot size: <u>5 Feet</u>) 1. <i>Poa pratensis /</i> Kentucky blue grass 2.	0 50	= Total Cove	FACU	Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index ≤3.01
3 4				4 - Morphological Adaptations ¹ (Provide supporting Problematic Hydrophytic Vegetation ¹ (Explain)
6				¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
8 9			·	Definitions of Vegetation Strata
10 11 12				Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
Woody Vine Stratum (Plot size: 30 Feet)	50	= Total Cove	er	Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
1 2				Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
3			·	Woody vines - All woody vines greater than 3.28 ft in height.
	0	= Total Cove	21	Hydrophytic Vegetation Present? Yes NoX
Remarks: (Explain alternative procedures here or in a separa remnant corn	te report.)			
-	-			
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Profile Desc	ription: (Describe to tl Matrix	ne depth nee	ded to document t	he indicator	or confirm	the abse	nce of indicators.)		
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	L OC ²	Texture	Rem	arks
0-9	10YR 4/3	100					Clav Loam		
					· ·				
-	·				· ·				
					· ·				
					· ·				
					· ·		·		
-	· · · · · · · · · · · · · · · · · · ·	·			· ·		·		
					· ·		·		
					· ·		·		
	·				· ·				
					· ·		<u> </u>		
					· ·				
¹ Type: C=Co	ncentration, D=Depletio	n, RM=Reduc	ced Matrix, MS=Mas	ked Sand Gr	ains.		² Location	: PL=Pore Lining	, M=Matrix.
Hydric Soil	Indicators:						Indicators for	Problematic H	/dric Soils ³ :
Histoso	(A1)		Polyvalue Belo	w Surface (S	8) (I RR R	MI RA 149	9B) 2 cm Mu	k (A10) (I RR K	
Histic F	ninedon (A2)	-	Thin Dark Surf	ace (S9) /I F		149B)	Coast Pr		
Black H	$p_{1}p_{1}p_{2}(\Lambda_{2})$	-	Loamy Mucky I	Mineral (E1)		(1450)	00031110	ky Peat or Peat	
	nslic (AS)	-		Motrix $(F1)$					(33) (LKK K, L, K)
Hyuruge		-	Loany Gleyeu	$(\Gamma 2)$			Dark Sur	Below Surface	
Suaune	u Layers (Ab) d Deleus Derk Surfees (Depieted Math	х (ГЭ) unfease (ГС)			Polyvalue		(30) (LKK K, L)
	d Below Dark Surface (/	A11) -	Redox Dark Su						
	ark Surface (A12)	-	Depleted Dark	Surface (F7)			Iron-Man	ganese Masses	(F12) (LRR K, L, R)
Sandy r	Mucky Mineral (S1)	-	Redox Depress	sions (F8)				Floodplain Solls	(F19) (MLRA 149B)
Sandy (Sleyed Matrix (S4)						Mesic Sp	odic (IA6) (MLI	RA 144A, 145, 149B)
Sandy F	Redox (S5)						Red Pare	nt Material (F21)	
Stripped	d Matrix (S6)						Very Sha	llow Dark Surfac	e (TF12)
Dark Su	Irface (S7) (LRR R, ML	.RA 149B)					Other (Ex	plain in Remarks	5)
3 malio atora a	f hudronhutio vocatotion		hudrologu must ho r	waaant unla	a diaturbad				
Indicators o				Jiesent, unies	ss distuibed				
Restrictive I	Layer (if observed):								
Туре:									
Depth (ir	nches):						Hydric Soil Pres	ent? Yes	No X
Remarks:	Auger rock refusal at 9	inches in mul	tinle locations						
	Auger rook relubar at o								

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site:	16153 Heritage Wind	City/Cou	Inty: Town of Barr	re, Orleans County	Sampling Date: 04/20/2022
Applicant/Owner:	Heritag	e Wind, LLC	·	State: New York	Sampling Point: 66W13-01W
Investigator(s):	JB BA	Section,	Township, Range:	To	wn of Barre
Landform (hillslope, terrace, e	tc): Toe of slope	Local relief (conc	cave, convex, none):	concave	Slope (%): 0-5
Subregion (LRR or MLRA):	LRR L	Lat: 43	3.205525 Loi	ng:78.15381	5 Datum: WGS 1984
Soil Map Unit Name:	Churchville sil	t loam, 0 to 2 percent s	lopes	NWI classification	on:
Are climatic / hydrologic condi	tions on the site typical for this t	me of year? Yes	X No	(If no, explain in Remark	(S.)
Are Vegetation X, Soi	i, or Hydrology	significantly disturbe	d? Are "Norn	nal Circumstances" prese	ent? Yes No
Are Vegetation, Soi	i, or Hydrology	naturally problemation	c? (If needed	d, explain any answers in	Remarks.)
SUMMARY OF FINDING	GS - Attach site map she	owing sampling p	oint locations, tra	insects, important	features, etc.
Hydrophytic Vegetation Pre	sent? Yes X	No	Is the Sampled Area	9	
Hydric Soil Present?	Yes X	No	within a Wetland?	Yes X	No
Wetland Hydrology Present	? Yes X	No	If ves. optional Wetla	nd Site ID:	66W13
Remarks: (Explain alternativ Wetland occur	ve procedures here or in a sepa s in active agriculture field at bo	ate report.) ttom of slope. Compact	t soils keep water from o	draining effectively creati	ng hydric conditions.
HYDROLOGY					
Wetland Hydrology Indica	tore:				
Primany Indicators (minimur	nors. m of one required: check all that	apply)		Secondary India	ators (minimum of two required)
Y Surface Water (A1)	IT OF OTHE TEQUIED, CHECK all that	apply) Water Stained Leaves	(B0)	Surface Soi	alors (minimum of two required)
X High Water Table (A1)	—	Aquatic Fauna (B13)	(69)	Drainage P	atterns (B10)
$\frac{X}{X}$ Saturation (A3)	—	Marl Deposits (B15)		Moss Trim I	lines (B16)
Water Marks (B1)	—	Hydrogen Sulfide Odor	· (C1)	Dry-Season	Water Table (C2)
Sediment Deposits (B2	2)	Oxidized Rhizospheres	s on Living Roots (C3)	Cravfish Bu	rrows (C8)
Drift Deposits (B3)		Presence of Reduced I	ron (C4)	X Saturation \	/isible on Aerial Imagery (C9)
Algal Mat or Crust (B4)		Recent Iron Reduction	in Tilled Soils (C6)	Stunted or S	Stressed Plants (D1)
Iron Deposits (B5)		Thin Muck Surface (C7	')	Geomorphi	c Position (D2)
Inundation Visible on A	erial Imagery (B7)	Other (Explain in Rem:) arks)	Shallow Ag	uitard (D3)
Sparsely Vegetated Co	oncave Surface (B8)			Microtopog	raphic Relief (D4)
				X FAC-Neutra	al Test (D5)
					· · ·
Field Observations:					
Surface Water Present?	Yes <u>X</u> No	Depth (inches):	4		
Water Table Present?	Yes <u>X</u> No	Depth (inches):	0		
Saturation Present?	Yes <u>X</u> No	Depth (inches):	0 Wetlan	d Hydrology Present?	Yes X No
(includes capillary fringe)					
Describe Recorded Data (si	tream dauge monitoring well a	- 	spections) if available.		
	a ourrigadgo, monitoring won, a	indi priotoo, proviouo ii			
Remarks:					

VEGETATION - Use scientific names of plants.

Sampling Point: 66W13-01W

Tree Stratum (Plot size:	Absolute <u>% Cover</u>	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: 1 Total Number of Dominant Species Across All Strata: 1 Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0 (A)
5 6 7 Sapling/Shrub Stratum (Plot size:15 Feet)	0	= Total Cov	er	Prevalence Index worksheet:Total % Cover of:Multiply by:OBL species5 $x 1 = 5$ FACW species0 $x 2 = 0$
1. 2. 3. 4. 5.				FAC species0 $x \ 3 =$ 0FACU species0 $x \ 4 =$ 0UPL species0 $x \ 5 =$ 0Column Totals:5(A)5
67 7 Herb Stratum (Plot size:5 Feet)	0	= Total Cov	er	Prevalence Index = B/A = 1.0 Hydrophytic Vegetation Indicators:
1. Ranunculus sceleratus / Cursed crowfoot 2. 3. 4.	5	Yes	OBL	X 2 - Dominance Test is >50% X 3 - Prevalence Index ≤3.01 4 - Morphological Adaptations1 (Provide supporting Problematic Hydrophytic Vegetation1 (Explain)
6 7 8 9.				¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Definitions of Vegetation Strata
10 11 12	 5	= Total Cov	er	Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and
Woody Vine Stratum (Plot size:				 greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in
4.	0	= Total Cov	er	height. Hydrophytic Vegetation Present? Yes X No
Remarks: (Explain alternative procedures here or in a separate	e report.)			

S	0	IL
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Profile Desc Depth	ription: (Describe to t Matrix	he depth ne	eded to document th Redox	e indicator	or confirm	the abse	nce of indicators.)	
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-12	10YR 3/2	98	10YR 5/6	2	C	М	Sity Clay Loam	
12-18	10YR 5/6	100					Sity Clay Loam	
		. <u></u>						
		. <u></u>						
		. <u></u>						
		·		<u> </u>				
							·	
				. <u> </u>				
							· ·	
							·	
¹ Type: C=Co	ncentration, D=Depletic	on, RM=Redu	iced Matrix, MS=Mask	ed Sand Gra	ains.		² Location:	: PL=Pore Lining, M=Matrix.
Hydric Soil I	ndicators:						Indicators for	Problematic Hydric Soils ³ :
Histosol	(A1)		Polyvalue Below	/ Surface (S8	B) (LRR R	MLRA 14	9B) 2 cm Muc	k (A10) (LRR K, L, MLRA 149B)
Histic Ep	pipedon (A2)		Thin Dark Surface	ce (S9) (LR	R R, MLRA	A 149B)	Coast Pra	airie Redox (A16) (LRR K, L, R)
Black Hi	istic (A3)		Loamy Mucky M	lineral (F1)	(LRR K, L)		5 cm Muc	ky Peat or Peat (S3) (LRR K, L, R)
Hydroge	en Sulfide (A4)		Loamy Gleyed N	/latrix (F2)			Dark Surfa	ace (S7) (LRR K, L)
Stratified	d Layers (A5)		Depleted Matrix	(F3)			Polyvalue	Below Surface (S8) (LRR K, L)
Deplete	d Below Dark Surface (A11)	X Redox Dark Sur	face (F6)			Thin Dark	Surface (S9) (LRR K, L)
Thick Da	ark Surface (A12)		Depleted Dark S	Surface (F7)			Iron-Mang	ganese Masses (F12) (LRR K, L, R)
Sandy N	Aucky Mineral (S1)		Redox Depressi	ons (F8)			Piedmont	Floodplain Soils (F19) (MLRA 149B)
Sandy G	Bleyed Matrix (S4)						Mesic Spo	odic (1A6) (MLRA 144A, 145, 149B)
Sandy F	Redox (S5)						Red Parel	nt Material (F21)
Stripped	Matrix (S6)						Very Shall	low Dark Surface (TF12)
Dark Su	rface (S7) (LRR R, M	_RA 149B)					Other (Ex	plain in Remarks)
³ Indicators of	hydrophytic vegetation	and wetland	l hydrology must be pr	esent, unles	s disturbec	l or proble	matic.	
Restrictive L	_ayer (if observed):							
Type:								
Depth (in	iches):						Hydric Soil Prese	ent? Yes X No
Remarks:								

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Applicant/Owner:	16153 He	ritage Wind	City/C	County: Tow	n of Barre, Orle	eans County	Sampling Date:	04/20/2022
		Herit	tage Wind, LLC	·	Sta	ate: New York	Sampling Point:	66W14-01U
Investigator(s):		JB BA	Secti	on. Township. Rar	nae:	To	wn of Barre	
Landform (hillslope, terrad	ce, etc):	Hill slope	Local relief (c	oncave, convex, n	one):	concave	Slope	e (%): 3-8
Subregion (LRR or MLRA	A):	LRR L	Lat:	43.14978	Lona:	-78,164633	 33 Datur	m: WGS 1984
Soil Map Unit Name:	,	Odessa si	It loam. 0 to 3 percent	slopes	0	NWI classificati	on:	N/A
Are climatic / hvdrologic c	conditions on the s	site typical for thi	s time of vear? Yes	X No	(If no.	_ explain in Remark	(S.)	
Are Vegetation X	, Soil , c	or Hydrology	significantly distu	rbed?	re "Normal Cire	cumstances" prese	ent? Yes	X No
Are Vegetation	, Soil , c	or Hydrology	naturally problem	atic? (If needed, expla	ain any answers in	Remarks.)	
	DINGS - Attac	h site map s	howing sampling	n point locatio	ons. transec	ts. important	features, etc.	
	Dresent?	<u>Vec</u>	No V	la the Com				
	Present?	Yes		is the Samp	Alendo	Vaa	No. V	
Hydric Soll Present?	a a a ta	Yes						_
welland Hydrology Pre	sent?	res		ii yes, optior	iai weliand Sile	e ID:		
Remarks: (Explain alter Active Age	rnative procedure: riculture Field with	s here or in a ser ı harvested vege	parate report.) tation					
HYDROLOGY								
Wetland Hydrology In	idicators:							
Primary Indicators (min	imum of one requ	ired; check all th	at apply)			Secondary Indica	ators (minimum of	two required)
Surface Water (A1	1)		Water-Stained Leav	es (B9)		Surface Soi	l Cracks (B6)	
High Water Table	(A2)		Aquatic Fauna (B13	5)		Drainage Pa	atterns (B10)	
Saturation (A3)			Marl Deposits (B15)	1		Moss Trim I	_ines (B16)	
Water Marks (B1)			_ Hydrogen Sulfide O	dor (C1)		Dry-Season	Water Table (C2)	
Sediment Deposits	s (B2)	_	Oxidized Rhizosphe	eres on Living Roo	ts (C3)	Crayfish Bu	rrows (C8)	
Drift Deposits (B3))	_	Presence of Reduce	ed Iron (C4)		Saturation \	/isible on Aerial Im	agery (C9)
Algal Mat or Crust	: (B4)	_	Recent Iron Reducti	ion in Tilled Soils (C6)	Stunted or S	Stressed Plants (D	1)
Iron Deposits (B5))	_	_ Thin Muck Surface ((C7)		Geomorphic	c Position (D2)	
Inundation Visible	on Aerial Imagery	/ (B7)	Other (Explain in Re	emarks)		Shallow Aq	uitard (D3)	
Sparsely Vegetate	d Concave Surfac	ce (B8)				Microtopogi	aphic Relief (D4)	
						FAC-Neutra	il Test (D5)	
Field Observations:								
Surface Water Present	? Yes	No X	Depth (inches):					
	Yes	No X	Depth (inches):					
Water Table Present?		No X	Depth (inches):		Wetland Hyd	rology Present?	Yes	No X
Water Table Present? Saturation Present?	Yes							
Water Table Present? Saturation Present? (includes capillary fring	Yes _							
Water Table Present? Saturation Present? (includes capillary fring	Yes _ 							
Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Date	Yes _ ta (stream gauge,	monitoring well,	aerial photos, previou	s inspections), if a	vailable:			
Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Dat	Yes _ ta (stream gauge,	monitoring well,	aerial photos, previou	s inspections), if a	vailable:			
Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Dat	Yes _ ta (stream gauge,	monitoring well,	aerial photos, previou	s inspections), if a	vailable:			
Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Dat Remarks:	Yes _ e) ta (stream gauge,	monitoring well,	aerial photos, previou	s inspections), if a	vailable:			
Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Dat Remarks:	Yes _ ie) ta (stream gauge,	monitoring well,	aerial photos, previou	s inspections), if a	vailable:			
Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Dat Remarks:	Yes _ ta (stream gauge,	monitoring well,	, aerial photos, previou	s inspections), if a	wailable:			
Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Dat Remarks:	Yes _ ta (stream gauge,	monitoring well,	, aerial photos, previou	s inspections), if a	vailable:			
Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Dat Remarks:	Yes _ ta (stream gauge,	monitoring well,	aerial photos, previou	s inspections), if a	wailable:			
Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Dat Remarks:	Yes _ ta (stream gauge,	monitoring well,	aerial photos, previou	s inspections), if a	wailable:			
Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Dat Remarks:	Yes _ ta (stream gauge,	monitoring well,	aerial photos, previou	s inspections), if a	wailable:			
Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Dat Remarks:	Yes _ ie) ta (stream gauge,	monitoring well,	, aerial photos, previou	s inspections), if a	wailable:			
Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Dat Remarks:	Yes _ ta (stream gauge,	monitoring well,	, aerial photos, previou	s inspections), if a	wailable:			
Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Dat Remarks:	Yes _ 	, monitoring well,	, aerial photos, previou	s inspections), if a	wailable:			
Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Dat Remarks:	Yes _ ta (stream gauge,	, monitoring well,	, aerial photos, previou	s inspections), if a	wailable:			
Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Dat Remarks:	Yes _ ta (stream gauge,	, monitoring well,	, aerial photos, previou	s inspections), if a	wailable:			
Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Dat Remarks:	Yes _ 	, monitoring well,	, aerial photos, previou	s inspections), if a	wailable:			
Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Dat Remarks:	Yes _ ie) ta (stream gauge,	, monitoring well,	, aerial photos, previou	s inspections), if a	wailable:			
Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Dat Remarks:	Yes _ ie) ta (stream gauge,	, monitoring well,	, aerial photos, previou	s inspections), if a	wailable:			

VEGETATION - Use scientific names of plants.

Sampling Point: 66W14-01U

<u>Tree Stratum</u> (Plot size: <u>30 Feet</u>) 1 2.	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: 0 Total Number of Dominant Species Across All Strata: 2 (B)
3. 4. 5.				Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0 (A/B)
6. 7.	0	= Total Cov	er	Prevalence Index worksheet:
Sapling/Shrub Stratum (Plot size:15 Feet) 1.				FACW species0 $x 2 =$ 0FAC species0 $x 3 =$ 0FACU species5 $x 4 =$ 20UPL species20 $x 5 =$ 100
4 5 6 7				Column Totals: 25 (A) 120 (B) Prevalence Index = B/A = 4.8
Herb Stratum (Plot size: 5 Feet)	0	= Total Cov	er	Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation
Laman purpreum / Purpre dead nette Dipsacus fullonum / Wild teasel	5	Yes	FACU	 2 - Dominance rest is >50% 3 - Prevalence Index ≤3.01 4 - Morphological Adaptations1 (Provide supporting Problematic Hydrophytic Vegetation1 (Explain)
5. 6. 7. 8.			 	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
9 10 11 12				Definitions of Vegetation Strata Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
Woody Vine Stratum (Plot size: <u>30 Feet</u>)	25	= Total Cov	er	Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of
2. 3. 4.				size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height.
	0	_ = Total Cov	er	Hydrophytic Vegetation Present? Yes NoX
Remarks: (Explain alternative procedures here or in a separa	ate report.)			

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(inches)	Matrix		Redo	x Features					
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remar	ks
0-9	7.5YR 4/3	100					Slty Clay Loam		
9-15	7.5YR 4/6	100					Silty Clay		
		·							
		·		_	· ·				
		·	·		· ·		·		
		·			· ·				
					· ·		·		
		·			· ·				
					· ·				
Type: C=Co	ncentration. D=Depletic	n. RM=Redu		ked Sand Gr	ains.		² Location:	PL=Pore Linina. N	∕I=Matrix.
lydric Soil I	ndicators:						Indicators for I	Problematic Hyd	ric Soils ³ :
Histosol	(A1)		Polyvalue Belo	w Surface (S	8) (LRR R,	MLRA 149	9B) 2 cm Muck	(A10) (LRR K, L	., MLRA 149B)
Histic Ep	pipedon (A2)		Thin Dark Surfa	ace (S9) (LF	RR R, MLRA	(149B)	Coast Prai	ie Redox (A16)	(LRR K, L, R)
Black Hi	istic (A3)		Loamy Mucky I	Mineral (F1)	(LRR K, L)		5 cm Muck	y Peat or Peat (S	3) (LRR K, L, R)
Hydroge	en Sulfide (A4)		Loamy Gleyed	Matrix (F2)			Dark Surfa	ce (S7) (LRR K,	L)
Stratified	d Layers (A5)		Depleted Matrix	(F3)			Polyvalue	Below Surface (S	8) (LRR K, L)
Deplete	d Below Dark Surface (A11)	Redox Dark Su	rface (F6)			Thin Dark	Surface (S9) (LF	RR K, L)
Thick Da	ark Surface (A12)		Depleted Dark	Surface (F7)			Iron-Manga	anese Masses (F	12) (LRR K, L, F
Sandy N	Aucky Mineral (S1)		Redox Depress	sions (F8)			Piedmont I	loodplain Soils (I	=19) (MLRA 149E
Sandy G	Gleved Matrix (S4)		<u> </u>	. ,			Mesic Spo	dic (TA6) (MLRA	A 144A, 145, 149
Sandy F	Redox (S5)						Red Paren	t Material (F21)	, -, -
Stripped	Matrix (S6)						Very Shall	w Dark Surface (TF12)
Dark Su	urface (S7) (IRRR MI	RA 149B)					Other (Evr	lain in Remarks)	
								an in Kenarks)	
	bydrophytic vegetation	and wetland	l hydrology must be p	present, unles	ss disturbed	or probler	natic.		
Indicators of	injuiopinytic vegetation								
Indicators of	aver (if observed):								
Indicators of Cestrictive L	_ayer (if observed):								
Indicators of Restrictive L Type: Depth (in	-ayer (if observed):						Hydric Soil Prese	t? Yes	No X
Indicators of Restrictive L Type: Depth (in	ayer (if observed):						Hydric Soil Preser	t? Yes	NoX
Indicators of Cestrictive L Type: Depth (in Cemarks:	ayer (if observed):						Hydric Soil Prese	t? Yes	No X
Indicators of Cestrictive L Type: Depth (in Remarks:	ayer (if observed):	5"					Hydric Soil Prese	it? Yes	No <u>X</u>
Indicators of Cestrictive L Type: Depth (in Cemarks:	ayer (if observed):	5"					Hydric Soil Presei	t? Yes	No <u>X</u>
Indicators of Restrictive L Type: Depth (in Remarks:	Auger rock refusal at 1	5"					Hydric Soil Presei	t? Yes	No <u>X</u>
Indicators of Restrictive L Type: Depth (in Remarks:	Auger rock refusal at 1	5"					Hydric Soil Presei	t? Yes	No <u>X</u>
Indicators of Restrictive L Type: Depth (in Remarks:	Auger rock refusal at 1	5"					Hydric Soil Presei	it? Yes	No <u>X</u>
ndicators of Restrictive L Type: Depth (in Remarks:	Auger rock refusal at 1	5"					Hydric Soil Presei	it? Yes	No <u>X</u>
ndicators of Restrictive L Type: Depth (in Remarks:	Auger rock refusal at 1	5"					Hydric Soil Presei	it? Yes	No <u>X</u>
Indicators of Restrictive L Type: Depth (in Remarks:	Auger rock refusal at 1	5"					Hydric Soil Presei	it? Yes	No <u>X</u>
ndicators of Restrictive L Type: Depth (in Remarks:	Auger rock refusal at 1	5"					Hydric Soil Presei	it? Yes	No <u>X</u>
ndicators of estrictive L Type: Depth (in temarks:	ayer (if observed):	5"					Hydric Soil Presei	it? Yes	No <u>X</u>
ndicators of estrictive I Type: Depth (in remarks:	ayer (if observed):	5"					Hydric Soil Presei	it? Yes	No <u>X</u>
ndicators of Restrictive L Type: Depth (in Remarks:	ayer (if observed):	5"					Hydric Soil Presei	it? Yes	No <u>X</u>
ndicators of estrictive I Type: Depth (in temarks:	ayer (if observed):	5"					Hydric Soil Presei	it? Yes	No <u>X</u>
Indicators of Restrictive I Type: Depth (in Remarks:	ayer (if observed):	5"					Hydric Soil Presei	it? Yes	No <u>X</u>
Indicators of Restrictive I Type: Depth (in Remarks:	ayer (if observed):	5"					Hydric Soil Presei	it? Yes	No <u>X</u>
Indicators of Restrictive I Type: Depth (in Remarks:	ayer (if observed):	5"					Hydric Soil Presei	it? Yes	No <u>X</u>
Indicators of Restrictive I Type: Depth (in Remarks:	ayer (if observed):	5"					Hydric Soil Prese	it? Yes	<u>No X</u>
Indicators of Restrictive I Type: Depth (in Remarks:	ayer (if observed):	5"					Hydric Soil Prese	it? Yes	No <u></u>
Indicators of Restrictive I Type: Depth (in Remarks:	ayer (if observed):	5"					Hydric Soil Prese	it? Yes	<u>No X</u>
Indicators of Restrictive I Type: Depth (in Remarks:	ayer (if observed):	5"					Hydric Soil Prese	it? Yes	<u>No X</u>
ndicators of estrictive L Type: Depth (in emarks:	ayer (if observed):	5"					Hydric Soil Prese	it? Yes	<u>No X</u>

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site:	16153 Herita	ae Wind	Citv/Count	v: Town of B	Barre, Orleans	County	Sampling Date:	04/20/2022
Applicant/Owner:		Heritage V	Vind. LLC		State:	New York	Sampling Point:	66W14-01W
Investigator(s):	JB	BA	Section. To	ownship, Range:		Τον	wn of Barre	
Landform (hillslope, terrad	ce, etc): To	be of Slope	Local relief (concav	ve, convex, none):		concave	Slope	e (%): 0-5
Subregion (LRR or MLRA	۸): LF	RR L	 Lat: 43.16	5123333	Long:	-78.2229683	33 Datur	m: WGS 1984
Soil Map Unit Name:		Odessa silt loar	n, 0 to 3 percent slope	S	N	WI classificatio	on:	N/A
Are climatic / hydrologic c	conditions on the site	typical for this time	of year? Yes X	No	(If no, expl	ain in Remark	s.)	
Are Vegetation X	, Soil , or H	ydrology	significantly disturbed	? Are "No	ormal Circums	stances" prese	nt? Yes	X No
Are Vegetation	, Soil, or H	ydrology I	naturally problematic?	(If need	ded, explain a	ny answers in	Remarks.)	
SUMMARY OF FINE	DINGS - Attach	site map show	ing sampling po	int locations, t	transects,	important f	features, etc.	
Hydrophytic Vegetation	Present?	Yes X N	0	Is the Sampled A	rea	-		
Hydric Soil Present?		Yes X N	0	within a Wetland	?	Yes X	No	
Wetland Hydrology Pre	esent?	Yes X N	0	If yes, optional We	etland Site ID:		66W14	_
Remarks: (Explain alter Wetland o duration o	mative procedures he occurs in agriculture fi of time to creating hyc	ere or in a separate ield. Compacted so Iric conditions. Veg	e report.) ils captures and retair etation impacting by fa	ns overland sheet f arming practices. V	flow in low spo Wetland drains	t in field to inu offsite to the r	ndate soils for a su north.	ufficient
HYDROLOGY								
Wetland Hydrology In	dicators:							
Primary Indicators (min	imum of one required	d: check all that ap	olv)		Se	condary Indica	ntors (minimum of t	two required)
X Surface Water (A1)	Wa	ter-Stained Leaves (B	9)		Surface Soil	Cracks (B6)	
High Water Table	, (A2)	Aqu	uatic Fauna (B13)	- /		Drainage Pa	atterns (B10)	
Saturation (A3)	. ,	Ma	rl Deposits (B15)			Moss Trim L	ines (B16)	
Water Marks (B1)		Hy	drogen Sulfide Odor (C1)		Dry-Season	Water Table (C2)	
Sediment Deposits	s (B2)	X Ox	idized Rhizospheres o	n Living Roots (C3	3)	Crayfish Bur	rows (C8)	
Drift Deposits (B3))	Pre	esence of Reduced Iro	n (C4)		Saturation V	isible on Aerial Im	agery (C9)
Algal Mat or Crust	(B4)	Re	cent Iron Reduction in	Tilled Soils (C6)		Stunted or S	Stressed Plants (D	1)
Iron Deposits (B5)	1	Thi	n Muck Surface (C7)			Geomorphic	Position (D2)	
Inundation Visible	on Aerial Imagery (B	7) Oth	ner (Explain in Remark	(S)		Shallow Aqu	iitard (D3)	
Sparsely Vegetate	d Concave Surface (B8)				Microtopogra	aphic Relief (D4)	
					X	FAC-Neutra	Test (D5)	
Field Observations:								
Surface Water Present	? Yes X	No D	epth (inches):	2				
Water Table Present?	Yes	No X D	epth (inches):					
Saturation Present?	Yes	No X D	epth (inches):	Wetl	land Hydrolog	gy Present?	Yes X	No
(includes capillary fring	.e)				•			
	·							
Describe Recorded Dat	ta (stream gauge, mo	onitoring well, aeria	l photos, previous insp	pections), if availab	ole:			
Remarks:								
Surface w	ater collecting in low	spots where clay r	etards infiltration					

VEGETATION - Use scientific names of plants.

Sampling Point: 66W14-01W

Tree Stratum (Plot size: 30 Feet)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)
1.				Total Number of Dominant Species Across All Strata: 2 (B)
3. 4. 5.				Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0 (A/B)
6 7				Prevalence Index worksheet: Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15 Feet) 1.	0	_ = Total Cove	er 	OBL species10 $x 1 =$ 10FACW species25 $x 2 =$ 50FAC species0 $x 3 =$ 0FACU species0 $x 4 =$ 0UPL species0 $x 5 =$ 0Column Totals:35(A)60
5. 6.				Prevalence Index = B/A = <u>1.71</u>
7 Herb Stratum (Plot size:5 Feet)	0	= Total Cove	er	Hydrophytic Vegetation Indicators: X 1 - Rapid Test for Hydrophytic Vegetation
Phalaris arundinacea / Reed canarygrass, Reed canary gras Juncus effusus / Common bog rush, Soft or lamp rush	25 10	Yes Yes	FACW OBL	X 2 - Dominance Test is >50% X 3 - Prevalence Index ≤3.01 4 - Morphological Adaptations1 (Provide supporting Problematic Hydrophytic Vegetation1 (Explain)
5 6 7 8				¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
9 10 11				Tree - Woody plants 3 in. (7.6 cm) or more in diameter at
12	35	= Total Cove	er	Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3 28 ff (1 m) tall
Woody Vine Stratum (Plot size: <u>30 Feet</u>) 1				Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall
2 3				Woody vines - All woody vines greater than 3.28 ft in height.
	0	= Total Cove	er	Hydrophytic Vegetation Present? Yes X
Remarks: (Explain alternative procedures here or in a separate r	eport.)			

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Depth	ofile Description: (Describe to the depth needed to document the indicator or confirm the absorber) Depth Matrix Redox Features				i the absen	ce of indicators.)	i.)		
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks	
0-18	10YR 3/1	90	7.5YR 5/6	10	<u> </u>	PL,M	Clay Loam		
¹ Type: C=Cor	ncentration, D=Depletion	n, RM=Redu	ced Matrix, MS=Mask	ed Sand Gra	ains.		² Location: P	L=Pore Lining, M=Matrix.	
Hydric Soil Indicators: Polyvalue Below Surface (S8) (LRR R, MLRA Histosol (A1) 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) X Redox Dark Surface (F6) Depleted Dark Surface (F7) Sandy Mucky Mineral (S1) Redox Depressions (F8) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B)					,MLRA 149 A 149B)	Indicators for Problematic Hydric Soils ³ : 2 cm Muck (A10) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Dark Surface (S7) (LRR K, L) Polyvalue Below Surface (S8) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Other (Explain in Remarks)			
Postriative I	nydropnytic vegetation	and wetland	nydrology must be pi	esent, unles	s disturbed	a or problem			
Type: Depth (in	ches):						Hydric Soil Present	? Yes X No	
Remarks:									

APPENDIX C

Photo Documentation



Photo 1

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Representative PEM Wetland Community 66W01

Photo 2 Representative PEM Wetland Community 66W04

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Photo 3 Representative PEM Wetland

Community 66W06

Photo 4 Representative PFO Wetland Community 66W07



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Photo 5 Representative PFO Wetland Community 66W08

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EDR_____

Photo 6 Representative PFO Wetland Community 66W09



Photo 7 Representative PFO Wetland Community 66W10

Photo 8 Representative PEM Wetland Community 66W11

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EDR_

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Photo 10 Representative Upland Community







Representative PEM Wetland Community 66W14



Photo 11 Representative Upland Community Soil Pit

Photo 12 Representative Intermittent Stream 66ST01

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Photo 13 Representative Ephemeral Stream 66ST02

Photo 14 Representative Intermittent Stream 66ST04



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Photo 15 Representative Ephemeral

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epresentative Ephemeral Stream 66ST05

Photo 16

Representative Perennial Stream 66ST06

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Photo 17 Representative Ephemeral Stream 66ST07

Photo 18 Representative Ephemeral Stream 66ST08

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Photo 19 Representative Ephemeral Stream 66ST10

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