Wetland and Stream Delineation Report

Marcy Nanocenter Parkway Mixed-Use Master Plan

Town of Marcy
Oneida County, New York

Prepared for:



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1.0 INTRODUCTION

1.1 PROJECT SITE LOCATION AND DESCRIPTION

At the request of Mohawk Valley EDGE (the Applicant), Environmental Design & Research, Landscape Architecture, Engineering & Environmental Services, D.P.C. (EDR) investigated an approximately 40-acre site in the Town of Marcy, Oneida County New York (Figure 1), hereafter referred to as the Project Site. The Project Site contains two parcels, one of which is bisected by County Route 34 (Marcy-SUNY IT Parkway) and owned by the Applicant, while the second is currently privately-owned but under purchase option by the Applicant. The proposed development of the Project Site is intended to compliment and support new development at the nearby Marcy Nanocenter and SUNY Polytechnic Institute. The Project Site is located approximately 0.3 mile north of Interstate 90 and is roughly bounded by Edic Road to the west, River Road to the south, and Technology Drive (formerly known as Campus Loop Road) to the north (Figure 2). The Project Site generally consists of maintained lawn and deciduous wooded areas as well as some paved areas and a mowed pedestrian walkway.

1.2 PURPOSE

The purpose of this study was to delineate and describe on-site wetlands and streams that occur within the Project Site that could potentially fall under state or federal jurisdiction. Specific tasks performed for this study included: 1) review of background resource data/mapping, 2) field delineation and flagging of potential state and federal jurisdictional wetlands and streams, 3) Global Positioning System (GPS) survey of delineated wetland and stream boundaries, 4) quantification of the area of on-site wetlands and streams, 5) description of characteristics based on hydrology, vegetation, and soils data collected in the field, and 6) a discussion of potential jurisdiction.

This report describes the results of the wetland and stream delineations conducted by EDR. It is intended to provide the information necessary to identify jurisdictional areas and support any required permit applications to the United States Army Corps of Engineers (USACE) and the New York State Department of Environmental Conservation (NYSDEC), as well as other impact evaluations conducted in support of site development (e.g., State Environmental Quality Review Act).

1.3 DATA SOURCES

Materials and data supporting this investigation have been derived from a number of sources including United States Geological Survey (USGS) topographic mapping (South Trenton 7.5 minute quadrangle), United States Fish and Wildlife Service (USFWS) National Wetlands Inventory (NWI) mapping, NYSDEC Freshwater Wetlands mapping, the Natural Resources Conservation Service (NRCS) Web Soil Survey (Soil Survey Staff, 2020), the NRCS List of Hydric

Soils of the State of New York (NRCS, 2018), the National Land Cover Dataset (NLCD) land cover and vegetation classes (Yang et al., 2018), and recent aerial photography.

Vascular plant names follow nomenclature found in the New York Flora Atlas (Weldy et al., 2019), and wetland indicator status for plant species was determined by reference to the National Wetland Plant List (Lichvar et al., 2016). Jurisdictional areas were characterized according to the wetlands and deepwater habitats classification system used in NWI mapping (Cowardin, 1979).

2.0 REGULATORY AUTHORITIES AND PERMITS

2.1 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).

On April 21, 2020, the U.S. Environmental Protection Agency (USEPA) and USACE published The Navigable Waters Protection Rule: Definition of "Waters of the United States". As of June 22, 2020, the effective date of the Navigable Waters Protection Rule, the agencies define four categories of waters that the USACE will consider to be WOTUS. Waters and features that do not meet the characteristics of one of these four categories will not be considered jurisdictional (USACE and USEPA, 2020). The WOTUS categories defined in The Navigable Waters Protection Rule are summarized below.

The USACE will assert jurisdiction over the following waters:

- Territorial seas and traditional navigable waters,
- Perennial and intermittent tributaries that contribute surface water flow to such waters,
- Certain lakes ponds and impoundments of traditional navigable waters, and
- Wetlands adjacent to other jurisdictional waters.

Any water that does not meet the characteristics of one of the four categories listed above is not considered a WOTUS. Additionally, the final rule has specifically clarified that WOTUS will not include any of the following eleven features:

Groundwater, including groundwater drained through subsurface drainage systems;

- Ephemeral features that flow only in direct response to precipitation, including ephemeral streams, swales, gullies, rills, and pools;
- Diffuse stormwater runoff and directional sheet flow over upland;
- Ditches that are not traditional navigable waters, tributaries, or that are not constructed in adjacent wetlands, subject to certain limitations;
- Prior converted cropland;
- Artificially irrigated areas that would revert to upland if artificial irrigation ceases;
- Artificial lakes and ponds that are not jurisdictional impoundments and that are constructed or excavated in upland or non-jurisdictional waters;
- Water-filled depressions constructed or excavated in upland or in non-jurisdictional waters incidental to
 mining or construction activity, and pits excavated in upland or in non-jurisdictional waters for the purpose of
 obtaining fill, sand, or gravel;
- Stormwater control features constructed or excavated in upland or in non-jurisdictional waters to convey, treat, infiltrate, or store stormwater run-off;
- Groundwater recharge, water reuse, and wastewater recycling structures constructed or excavated in upland or in non-jurisdictional waters; and
- Waste treatment systems.

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 Project Site does not include any navigable waters; therefore, Section 10 is not applicable to the proposed Project Site.

2.2 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 required from the NYSDEC for any disturbance to a state-protected wetland or adjacent area.

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 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.

In addition to the protection of waters permit required to change, modify, or disturb protected streams, Article 15 also requires a permit from the NYSDEC to construct any structure in or above any navigable waters of the state, as well as any proposed action that would alter or disturb these waters (such as excavation/dredging or deposition of materials). As mentioned previously the Project Site does not include any navigable waters; therefore, Article 15 is not applicable.

3.0 REVIEW OF BACKGROUND DATA AND MAPPING

3.1 PHYSIOGRAPHY AND SOILS

The Project Site is located within the Hudson-Mohawk Lowlands physiographic province of New York State. The geography in this province consists of soils formed from glacial till derived from shale and some sandstone where relief is moderate (USDA, 2008). Soils are mainly formed from alluvial outwash deposits derived from rocks upstream, in the southern part of the county soils were formed from weathered sandstone, shale and limestone. Elevations within the Project Site range from approximately 420 feet to approximately 475 feet above mean sea level (Figure 2).

The Web Soil Survey of Oneida County (Soil Survey Staff, 2020) indicates the occurrence of seven soil series on the Project Site (Figure 3). Udorthents and Herkimer channery silt loam are the predominant series occurring on the

Project Site, with Udorthents soils being a result of previous construction activities, and Herkimer channery silt loam generally occurring in areas that are dominated by dark calcareous shale. Table 1 lists all the soil series found in the Project Site and their characteristics. These soils range from somewhat poorly drained to somewhat excessively drained, none are designated as hydric soils, and two (udorthents and phelps silt loam) are considered potentially hydric. "Hydric" and "Potentially Hydric" designations are based on information obtained on the NRCS Web Soil Survey (Soil Survey Staff, 2020). Although a given soil series may be generally classified as hydric or potentially hydric in the online databases, this is for general use and does not supersede specific conditions documented in the field.

Table 1. Project Site Soils

Mapping Unit Symbol	Series	Slope (%)	Drainage ¹	Hydric ²	Potentially Hydric ³
4	Wakeville silt loam	0-3	SPD	No	No
10	Otego loam	0-3	MWD	No	No
12B	Herkimer channery silt loam	3-8	MWD	No	No
22	Udorthents	0-15	MWD	No	Yes
28A	Phelps silt loam	0-3	MWD	No	Yes
111E	Lansing silt loam	25-45	WD	No	No
350A	Alton gravelly loam	0-3	SED	No	No

¹ Soil drainage is represented by the following abbreviation: "SPD" = somewhat poorly drained, "MWD" = moderately well drained, "WD" = well drained, and "SED" = somewhat excessively drained

3.2 HYDROLOGY

The Project Site is located entirely within the Mohawk River Watershed (Hydrologic Unit Code [HUC] 02020004). Most of the surface hydrology within the Project Site is generated by precipitation and surface water run-off from adjacent land or built facilities (e.g., County Route 34/Marcy-SUNY IT Parkway). In areas associated with mapped watercourses, such as Gridley Creek, surface hydrology is also influenced by periodic flooding during heavy precipitation or seasonal runoff events. Total annual precipitation (from 2007 to 2020) averages 46.50 inches at nearby Rome Griffiss Airfield weather station (NOAA, 2020). The initial on-site wetland delineation took place at the end of the growing season (early November 2020). Precipitation for the previous month of October 2020 was low (3.08 inches) compared to the long-term monthly average for October 2007 - 2020 (5.30 inches). A subsequent delineation of the remaining portion of the Project Site took place in April 2021. Precipitation for the previous month of March 2021 was low (1.61 inches) compared to the long-term monthly average for March 2008 - 2021 (2.75 inches).

² "Yes" indicates this soil is listed as containing 66% or more hydric components within the map unit as listed on the USDA Web Soil Survey.

³ "Yes" indicates this soil is listed as containing 1% to 65% hydric components within the map unit as listed on the USDA Web Soil Survey.

3.3 FEDERAL AND STATE MAPPED WETLANDS AND STREAMS

Review of NWI mapping indicates the presence of two freshwater ponds (PUBFx), a freshwater forested/shrub wetland (PFO1A) and a riverine system (R5UBH) within the Project Site (Figure 4).

NYSDEC Freshwater Wetlands maps indicate that there are no state-mapped wetlands within the Project Site (Figure 4). The closest mapped Freshwater Wetland (UE-1) is located approximately 1,900 feet southeast of the Project Site.

NYSDEC stream classification maps indicates that there is one mapped stream within the Project Site. Gridley Creek, a NYSDEC Class C stream, is located roughly in the southeastern portion of the Project Site (Figure 4). The Erie Canal is the closest traditional navigable waters, located approximately 1,750 feet south of the Project Site, south of Interstate 90.

3.4 MAPPED FLOODPLAINS

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

3.5 VEGETATION

Land cover and vegetation occurring within the Project Site were evaluated using current NLCD mapping, which is compiled by the USGS (Yang et al., 2018), and further verified during the on-site field investigations. The Project Site primarily consists of deciduous forest, grassland/herbaceous land cover, and develop land/open space (Table 2).

Table 2. Vegetation/Land Cover Within the Project Site

Land Cover Class	Acres	Percent Cover (%)
Developed, Open Space	6.3	15.5
Grassland/Herbaceous	9.4	23.6
Developed, Low Intensity	2.8	7.0
Developed, Medium Intensity	2.3	5.8
Developed, High Intensity	1.0	2.6
Shrub/Scrub	1.4	3.5
Deciduous Forest	16.7	42.0
Total	39.9	100

Source: NLCD 2016 (Yang et al., 2018).

4.0 ON-SITE WETLAND AND STREAM DELINEATION

The initial field delineations of wetlands and streams at the Project Site occurred on November 11, 2020, and a subsequent delineation took place on April 27, 2021.

4.1 METHODOLOGY

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 USACE Routine Wetland Determination forms (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 is sufficient evidence that wetland hydrology is present. In addition, the Regional Supplement identifies the following secondary indicators which were also used by EDR personnel 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 (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 (Lichvar et al., 2016). 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 mottle color was recorded for each delineated wetland and used to determine whether the soils displayed hydric characteristics.

Streams were identified according to the Cowardin Classification System (1979), 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" (CFR, 1986). 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 (Appendix B).

Photographs were taken of each wetland and stream delineated within the Project Site. Photographs of each delineated feature are included in Appendix C.

4.2 RESULTS

EDR identified seven wetlands and four streams within the Project Site (Figure 5, Table 3). In accordance with the Cowardin et al. (1979) classification system, the features delineated within the Project Site consist of the following community types: open water wetland (POW), palustrine emergent wetland (PEM), palustrine forested wetland (PFO), upper perennial stream (R3) and ephemeral stream (R6).

Table 3. Delineated Wetlands and Streams

Delineation ID ¹	Latitude of Centroid	Longitude of Centroid	Wetland Type ²	Wetland Acreage Within Project Site	Stream Type ³	Linear Feet of Stream Within Project Site	Federal Jurisdiction ⁴	State Jurisdiction⁵
WL001	43.13410	-75.24047	POW	0.3	-	-	No	No
WL002	43.12951	-75.24383	POW	0.3	1	-	No	No
WL003	43.13149	-75.24250	PEM	0.8	1	-	No	No
WL004	43.1309	-75.2393	PFO	0.1	-	-	Yes	No
WL005	43.1313	-75.2393	PFO	1.1	-	-	Yes	No
WL005	43.1316	-75.2387	PEM	0.6	-	-	Yes	No
WL006	43.1318	-75.2415	PEM	0.2	-	-	No	No
WL007	43.1316	-75.2411	PFO	0.1	-	-	No	No
ST001	43.13292	-75.24217	-	-	R6	1,072	No	No
ST002	43.13221	-75.24173	-	-	R6	508	No	No
ST003	43.1309	-75.2391	-	-	R3	1,212	Yes	No
ST004	43.1305	-75.2401	-	-	R6	67.4	No	No

¹ Field ID assigned by EDR.

Descriptions of the delineated wetlands within the Project Site are provided below in Section 4.2.1, while Section 4.2.2 provides descriptions of the delineated streams within the Project Site.

4.2.1 Wetlands

4.2.1.1 Wetland Descriptions

Wetland 001 is an approximately 0.3-acre open water man-made pond. The dominant herbaceous plant species around the perimeter of the pond included common reed (*Phragmites australis*) and narrowleaf cattail (*Typha angustifolia*). Indicators of wetland hydrology included standing surface water (A1) and a high water table (A2). Soils in Wetland 001 were not accessible due to a shoreline riprap that restricted sampling. Photographs 1 and 2 in Appendix C illustrate Wetland 001. Wetland 001 is located in the northern section of the Project Site and appears to be an isolated stormwater control feature that has been constructed in an upland to convey, treat, infiltrate or store stormwater runoff. As a result, WL001 is not likely subject to USACE jurisdiction. The wetland-upland transition was relatively abrupt, and generally followed site topography. The adjacent upland occurs at the edge of the rip-rap and is herbaceous

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

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

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

⁵ Based on existing NYSDEC mapping of freshwater wetlands and streams. See Sections 2.2 and 3.3 for additional information.

grassland dominated by Kentucky bluegrass (*Poa pratensis*) and narrow leaved everlasting pea (*Lathyrus latifolius*). No indicators of hydric soil or wetland hydrology were observed in the upland.

Wetland 002 is an approximately 0.3-acre open man-made pond at the southern boundary of the Project Site. Woody vegetation around the perimeter of the pond was dominated by willow species (*Salix* sp), and the dominant species in the herbaceous layer was common reed. Indicators of wetland hydrology included a high water table (A2), surface water (A1), and a sparsely vegetated concave surface (B8). Soils in Wetland 002 were not accessible due to shoreline rip-rap that restricted sampling. Photographs 3 and 4 in Appendix C illustrate Wetland 002. Wetland 002 is located in the southern section of the Project Site and appears to be an isolated stormwater control feature that has been constructed in an upland to convey, treat, infiltrate or store stormwater run-off. As a result, Wetland 002 is not likely subject to USACE jurisdiction. The wetland-upland transition was relatively abrupt, and generally followed site topography. The adjacent upland is mainly a maintained lawn dominated by Kentucky bluegrass with planted white ash (*Fraxinus americana*) and Pine (*Pinaceae* sp.). No indicators of hydric soil or wetland hydrology were observed in the upland.

Wetland 003 is an approximately 0.8-acre emergent wetland located in a flat area where run-off from the surrounding land accumulates. The wetland was dominated by soft rush (*Juncus effuses*), Kentucky bluegrass and wrinkleleaf goldenrod (*Solidago rugosa*) with silver maple (*Acer saccharinum*) and European buckthorn (*Rhamnus cathartica*) occasionally present. Indicators of wetland hydrology included drainage patterns (B10) and FAC neutral test (D5). The soils within this wetland were very dark brown (7.5YR 2.5/2) sandy loam with 5% dark strong brown (7.5YR 4/6) redox concentrations in the matrix. Hydric soil indicators included sandy redox (S5). Wetland 003 appears to be an isolated depression that shows evidence of occasional inundation; therefore, this feature is not likely subject to USACE jurisdiction. Photographs 5 and 6 in Appendix C illustrate Wetland 003. The wetland-upland transition was abrupt along the mowed pedestrian walkway, while a gradual transition was present along the rest of the wetland. Adjacent upland is mainly herbaceous grassland dominated by Kentucky bluegrass. No indicators of hydric soil or wetland hydrology were observed in the upland.

Wetland 004 is an approximately 0.1-acre palustrine forested wetland located immediately adjacent to Stream 003 (Gridley Creek). The dominant overstory species included black willow (*Salix nigra*), eastern cottonwood (*Populus deltoides*), and green ash (*Fraxinus pennsylvanica*). The dominant shrub species was box elder (*Acer negundo*), while the dominant herbaceous species was garlic mustard (*Alliara petiolata*), with creeping jenny (*Lysimachia nummularia*) and rough avens (*Geum laciniatum*) also occasionally present in the herbaceous layer. Indicators of wetland hydrology included drainage patterns (B10), and geomorphic position (D2). The soils within this wetland were very dark brown (10YR 2/2) with 1% olive (5Y 5/6) redox concentrations in the matrix. The hydric soil indicator was histic epipedon

(A2). There were hydrologic connections observed between W004 and ST003; therefore, this wetland will likely be considered jurisdictional by the USACE. Photograph 7 in Appendix C illustrates Wetland 004. The wetland-upland transition was gradual and somewhat followed site topography. Adjacent upland is mainly deciduous forest dominated by black cherry (*Prunus serotina*), apple (*Malus sp.*), multiflora rose (*Rosa multiflora*) and Morrow's honeysuckle (*Lonicera morrowii*). No indicators of hydric soil or wetland hydrology were observed in the upland.

Wetland 005 contains both palustrine forested and palustrine emergent wetland communities and portions of this wetland are also immediately adjacent to Gridley Creek. The palustrine emergent portion of the wetland totals approximately 0.6-acre and the herbaceous understory of the wetland is dominated by broad-leaved cattail (*Typha latifolia*), and New England aster (*Symphyotrichum novae-angliae*). Throughout the shrub and sapling layer American hornbeam (*Carpinus caroliniana*), and multiflora rose are occasionally present, as is green ash in the overstory layer. Indicators of wetland hydrology included surface water (A1), high water table (A2), saturation (A3), hydrogen sulfide odors (C1) and FAC neutral test (D5). The soils within this wetland included a top layer that was black (10YR 2/1) and a secondary layer that was very dark grey (5YR 3/1). Hydric soil indicators included histosol (A1) and hydrogen sulfide (A4). There were hydrologic connections observed between W005 and ST003; therefore, this wetland will likely be considered jurisdictional by the USACE. Photograph 8 in Appendix C illustrates the palustrine emergent cover type of Wetland 005. The wetland-upland transition was abrupt and followed site topography. Adjacent upland is mainly deciduous forest dominated by American beech (*Fagus grandifolia*) and red maple (*Acer rubrum*). No indicators of hydric soil or wetland hydrology were observed in the upland.

The palustrine forested portion of Wetland 005 totals approximately 1.1 acres and the dominant overstory species include black willow and box elder, with green ash occasionally present. Sensitive fern (*Onoclea sensibilis*) and creeping jenny dominate the herbaceous understory, and Morrow's honeysuckle is occasionally present in the shrub and sapling layer. Indicators of wetland hydrology included oxidized rhizospheres on living roots (C3), drainage patterns (B10) and FAC neutral test (D5). The primary layer of soils within this wetland were 70% dark brown (7.5YR 3/2) and 25% pale brown (10YR 6/3) with 5% yellowish red (5YR 4/6) redox concentrations in the matrix and pore linings. The secondary layer of soil was dark brown (7.5YR 3/2) with 5% dark red (2.5YR 3/6) redox concentrations in the matrix. The hydric soil indicator was redox dark surface (F6). There were hydrologic connections observed between W005 and ST003; therefore, this wetland will likely be considered jurisdictional by the USACE. Photograph 9 in Appendix C illustrates the palustrine forested cover type of Wetland 005. The wetland-upland transition was abrupt and followed site topography. Adjacent upland is mainly deciduous forest dominated by eastern cottonwood, slippery elm (*Ulmus* rubra) and multiflora rose. No indicators of hydric soil or wetland hydrology were observed in the upland.

Wetland 006 was an approximately 0.2-acre palustrine emergent wetland located in a flat region in the center of the Project Site. Quaking aspen (*Populus tremuloides*) was both the dominant overstory species and the dominant sapling and shrub species, while the herbaceous understory included smooth scouring rush (*Equisetum laevigatum*) and sensitive fern, with woolgrass (*Scirpus cyperinus*) occasionally present. Indicators of wetland hydrology included oxidized rhizospheres on living roots (C3), stunted or stressed plants (D1) and microtopographic relief (D4). The primary soil layer within this wetland was very dark grayish brown (10YR 3/2) with a 5% strong brown (7.5YR 4/6) redox concentration in the pore lining and matrix. The secondary layer was brown (7.5YR 4/2) with a 5% brown (7.5YR 4/4) redox with concentrations in the matrix. The hydric soil indicators were sandy redox (S5) and redox dark surface (F6). Wetland 006 appears to be an isolated depression that shows evidence of occasional inundation; therefore, this feature is not likely subject to USACE jurisdiction. Photograph 10 in Appendix C illustrates Wetland 006. Adjacent upland is mainly deciduous forest dominated by quaking aspen and European buckthorn, with multiflora rose occasionally present. No indicators of hydric soil or wetland hydrology were observed in the upland.

Wetland 007 was an approximately 0.1-acre palustrine forested wetland located in a depression in the center of the Project Site. The dominant overstory species was eastern cottonwood. The dominant species in the shrub and sapling layer was nanny-berry (*Viburnum lentago*) with silky dogwood (*Cornus amomum*) occasionally present. Smooth scouring rush dominated the herbaceous understory with sensitive fern occasionally present. Indicators of wetland hydrology included sparsely vegetated concave surface (B8), stunted or stressed plants (D1) and FAC neutral test (D5). The primary soil layer within this wetland was dark grayish brown (10YR 4/2) with a 10% yellowish brown (10YR 5/8) redox concentration in the matrix. The secondary layer was 60% dark grayish brown (10YR 4/2) and 35% brown (10YR 5/3) with a 5% strong brown (7.5YR 5/8) redox concentration in the matrix. The hydric soil indicator was sandy redox (S5). Wetland 007 appears to be an isolated depression that shows evidence of occasional inundation; therefore, this feature is not likely subject to USACE jurisdiction. Photograph 11 in Appendix C illustrates Wetland 007. Adjacent upland is mainly deciduous forest largely dominated by quaking aspen, with some European buckthorn present. No indicators of hydric soil or wetland hydrology were observed in the upland.

4.2.2 Streams

Stream 001 is an unmapped roadside ditch that runs along the eastern side of the Marcy-SUNY IT Parkway. Stream 001 is an excavated channel/ditch, ranging from 2 to 4 feet in width, and was dry at the time of delineation. This feature has a gentle gradient, with channel material similar to the adjacent upland (see Photo 12 in Appendix C). This feature

appears to be stormwater control constructed in upland to convey stormwater run-off; therefore, it is not anticipated to be subject to USACE jurisdiction.

Stream 002 is an unmapped ephemeral swale that runs parallel to Stream 001 along the western side of the Marcy-SUNY IT Parkway. Stream 002 is an excavated channel/ditch ranging from 2 to 4 feet in width and was dry at the time of delineation. This feature was characterized by a gentle gradient, with channel material similar to the adjacent upland (see Photos 13, 14 and 15 in Appendix C). This feature appears to be stormwater control constructed in upland to convey stormwater run-off; therefore, it is not anticipated to be subject to USACE jurisdiction.

Stream 003 is a named (Gridley Creek) and mapped upper perennial stream that runs along the eastern side of the Project Site. Stream 003 had a well-developed channel with a continuous bed and bank containing flowing water at the time of delineation. Stream bank widths ranged from 10 feet (typically in riffles) to 30 feet (typically in pools), and was characterized by a gentle gradient. Substrate consisted of boulder, cobble, gravel, sand and silt/clay (see Photos 16 and 17 in Appendix C).

Stream 004 is an unmapped ephemeral stream that flows into Gridley Creek. Stream 004 had a weakly developed channel, ranging in width from 1 to 3 feet, and was dry at the time of delineation. This stream was characterized by a gentle gradient and overhanging vegetation. Substrate consisted of silt/clay (see Photo 18 in Appendix C). As this stream appears to be an ephemeral feature that only flows in direct response to precipitation, it will likely not be subject to USACE jurisdiction.

5.0 CONCLUSIONS

Within the Project Site, EDR identified seven wetlands totaling approximately 3.5 acres, three ephemeral streams (two of which are roadside ditches) totaling 1,647 linear feet, and one upper perennial stream totaling approximately 1,204 linear feet. Of the seven wetlands delineated on-site, two are man-made stormwater ponds and two are isolated depressions. Therefore, it appears that only Wetland 004 and Wetland 005 will be considered jurisdictional by the USACE under Section 404 of the Clean Water Act. With respect to the on-site streams, two are excavated roadside ditches and one is an ephemeral feature that only flows in direct response to precipitation. Therefore, it appears that only Stream 003 (Gridley Creek) will be considered jurisdictional by the USACE under Section 404 of the Clean Water Act. However, final determination of jurisdictional status of all features delineated within the Project Site will be made by the USACE.

The wetlands are not expected to fall under state jurisdiction pursuant to Article 24 of the ECL because they do not occur within, or have hydrologic connection to, wetlands included on the NYSDEC Freshwater Wetlands Maps. The

streams in the Project Site are not ma of the ECL.	pped as protected st	reams, and therefore	are not jurisdictional un	der Article 15

6.0 REFERENCES

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APPENDIX A

Figures

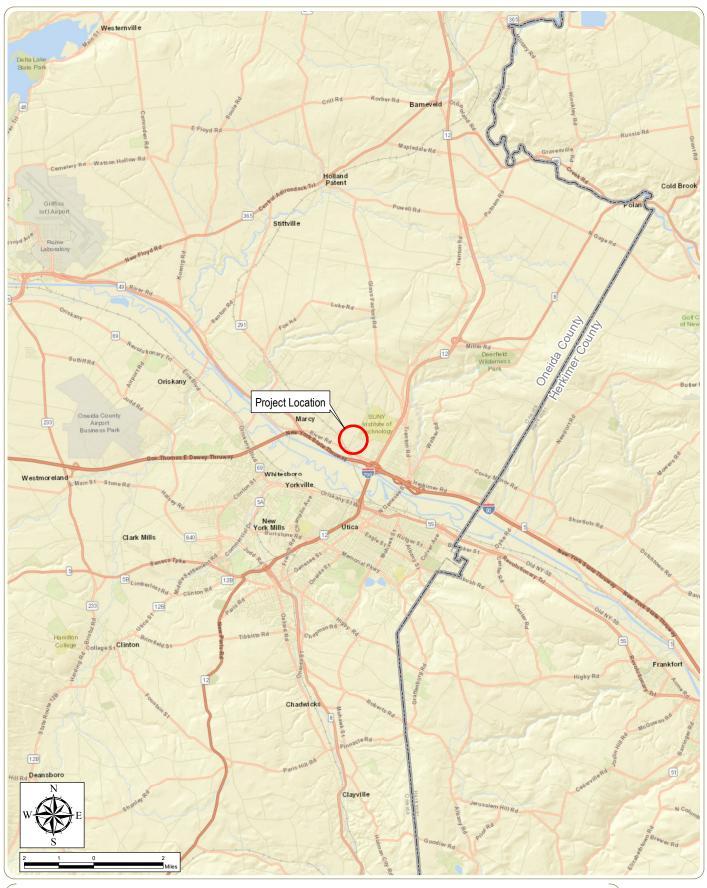
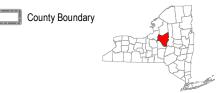


Figure1: Regional Project Location

Notes: 1. Basemap: ESRI ArcGIS Online "World Street Map" map service. 2. This map was generated in ArcMap on May 21, 2021. 3. This is a color graphic. Reproduction in grayscale may misrepresent the data.





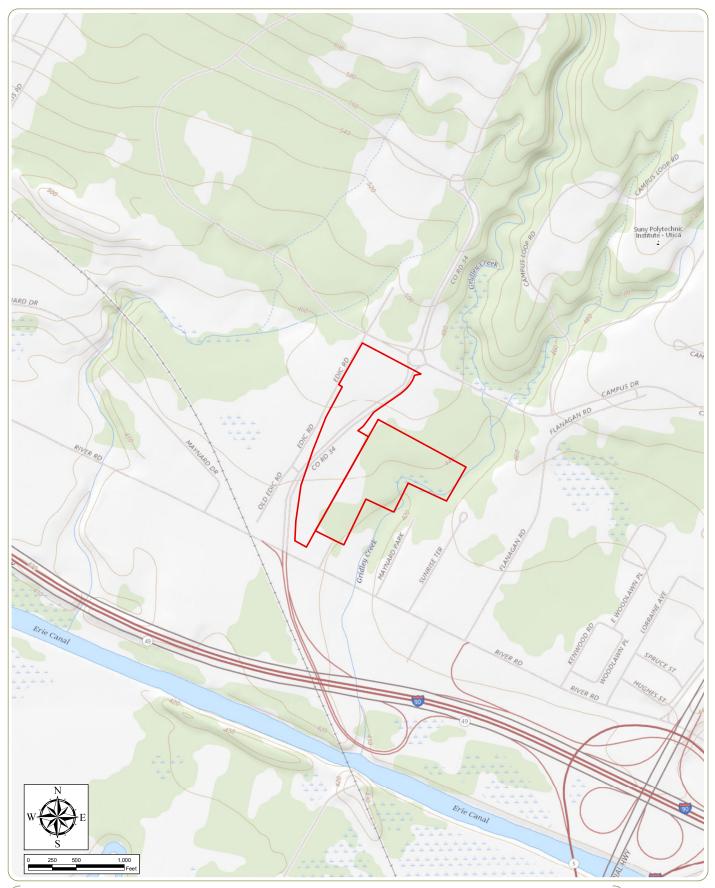


Figure 2: Topographic Mapping

Notes: 1. Basemap: ESRI ArcGIS Online "USGS Topo Maps" map service. 2. This map was generated in ArcMap on May 10, 2021. 3. This is a color graphic. Reproduction in grayscale may misrepresent the data.







Figure 3: Project Site Soils









Figure 4: Mapped Wetlands and Streams

Notes: 1. Basemap: USDA NAIP "2017 New York 60cm" orthoimagery map service. 2. This map was generated in ArcMap on May 10, 2021. 3. This is a color graphic. Reproduction in grayscale may misrepresent the data.

Class A, B, C(TS), or C(T) Stream

Class C or D Stream

Project Site

NWI Mapped Wetland

NWI Mapped Water Feature NYSDEC Mapped Wetland



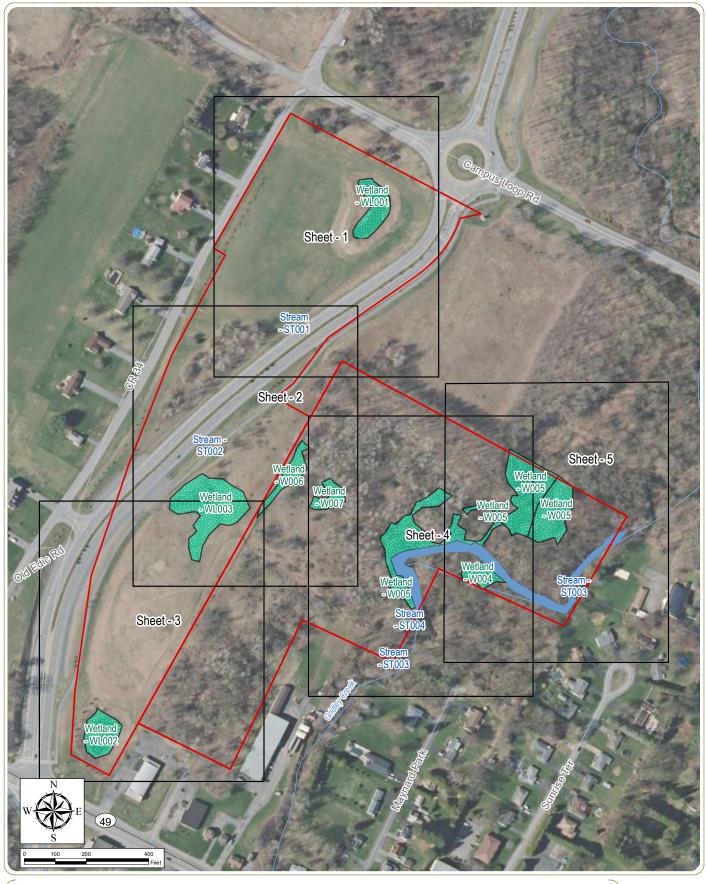


Figure 5: Delineated Wetlands and Streams Sheet Index







Town of Marcy, Oneida County, New York

Figure 5: Delineated Wetlands and Streams

- Wetland Flag
- ▲ Stream Flag
- Datapoint Wetland
- Culvert
- Delineated Stream
- Delineated Wetland
- Project Site



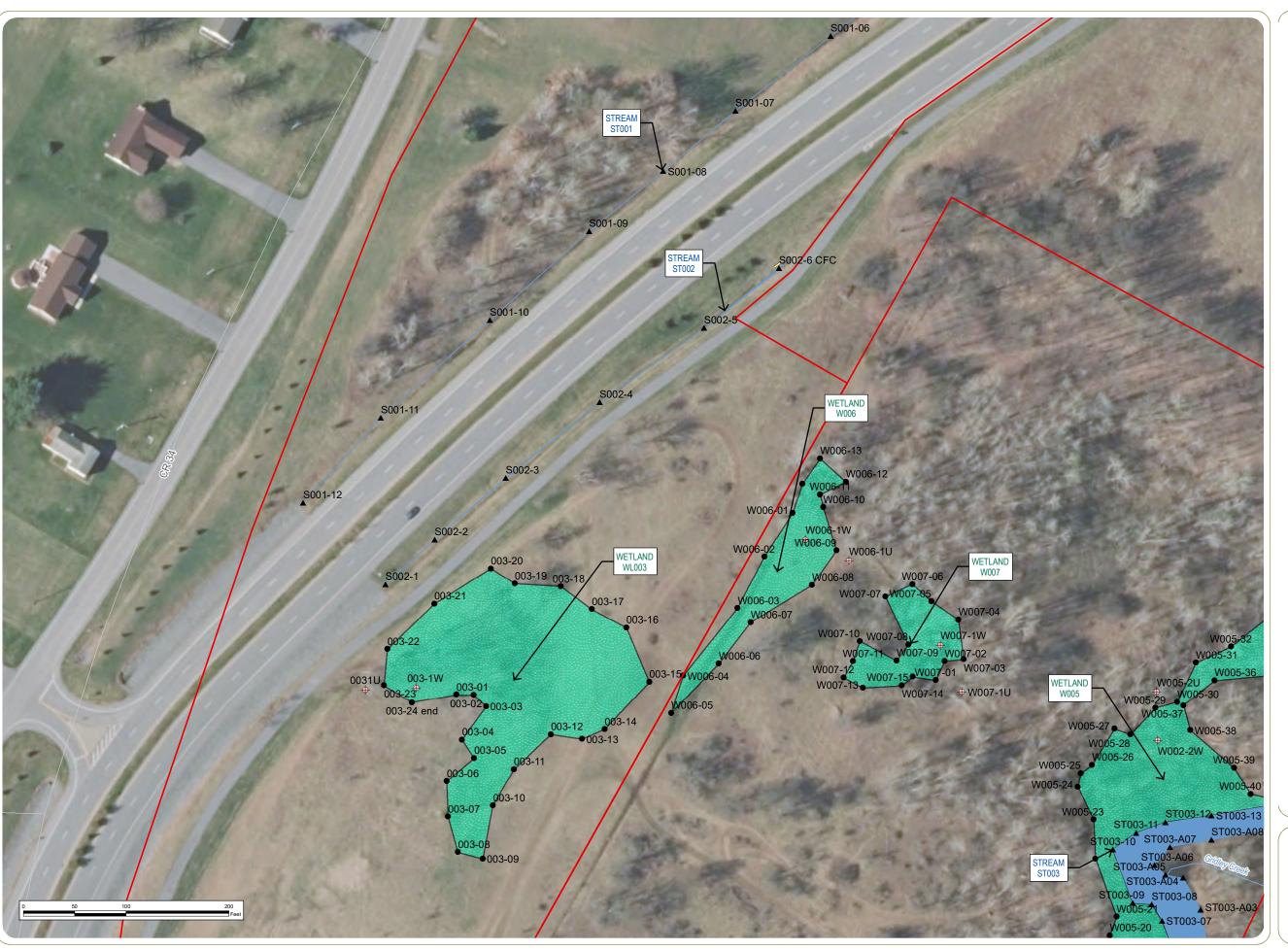
Sheet 1 of 5

Notes: 1. Basemap: NYSDOP "2017" orthoimagery map service.]. 2. This map was generated in ArcMap on May 11, 2021. 3. This is a color graphic. Reproduction in grayscale may misrepresent the data.





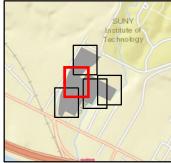
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Town of Marcy, Oneida County, New York

Figure 5: Delineated Wetlands and Streams

- Wetland Flag
- Stream Flag
- Datapoint Wetland
- Culvert
- Delineated Stream
- Delineated Wetland
- Project Site



Sheet 2 of 5

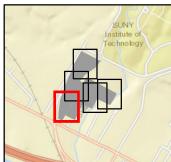




Town of Marcy, Oneida County, New York

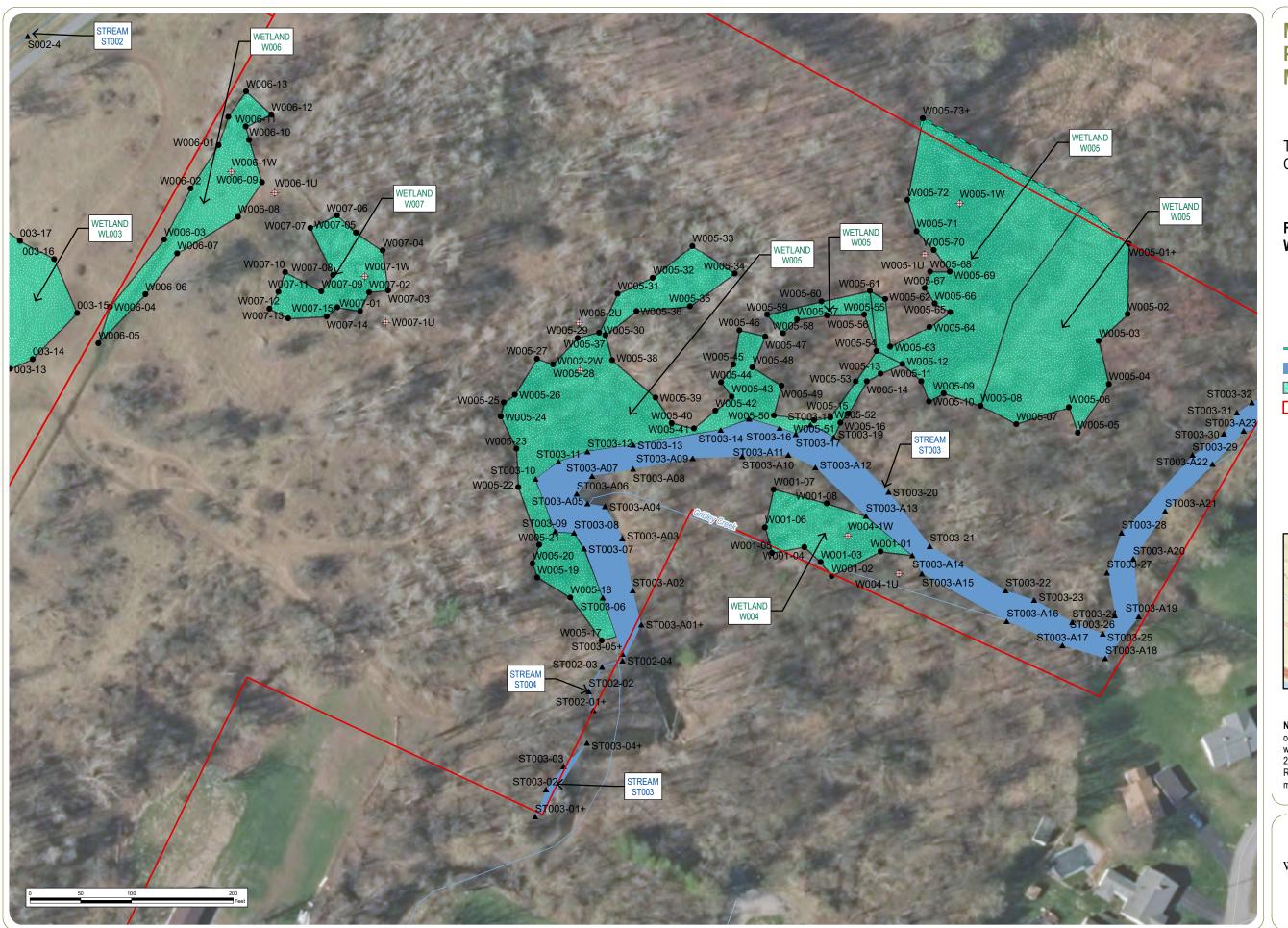
Figure 5: Delineated Wetlands and Streams

- Wetland Flag
- Datapoint Wetland
- Culvert
- Delineated Wetland
- Project Site



Sheet 3 of 5



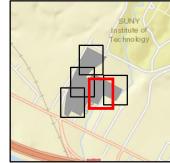


Town of Marcy, Oneida County, New York

Figure 5: Delineated Wetlands and Streams

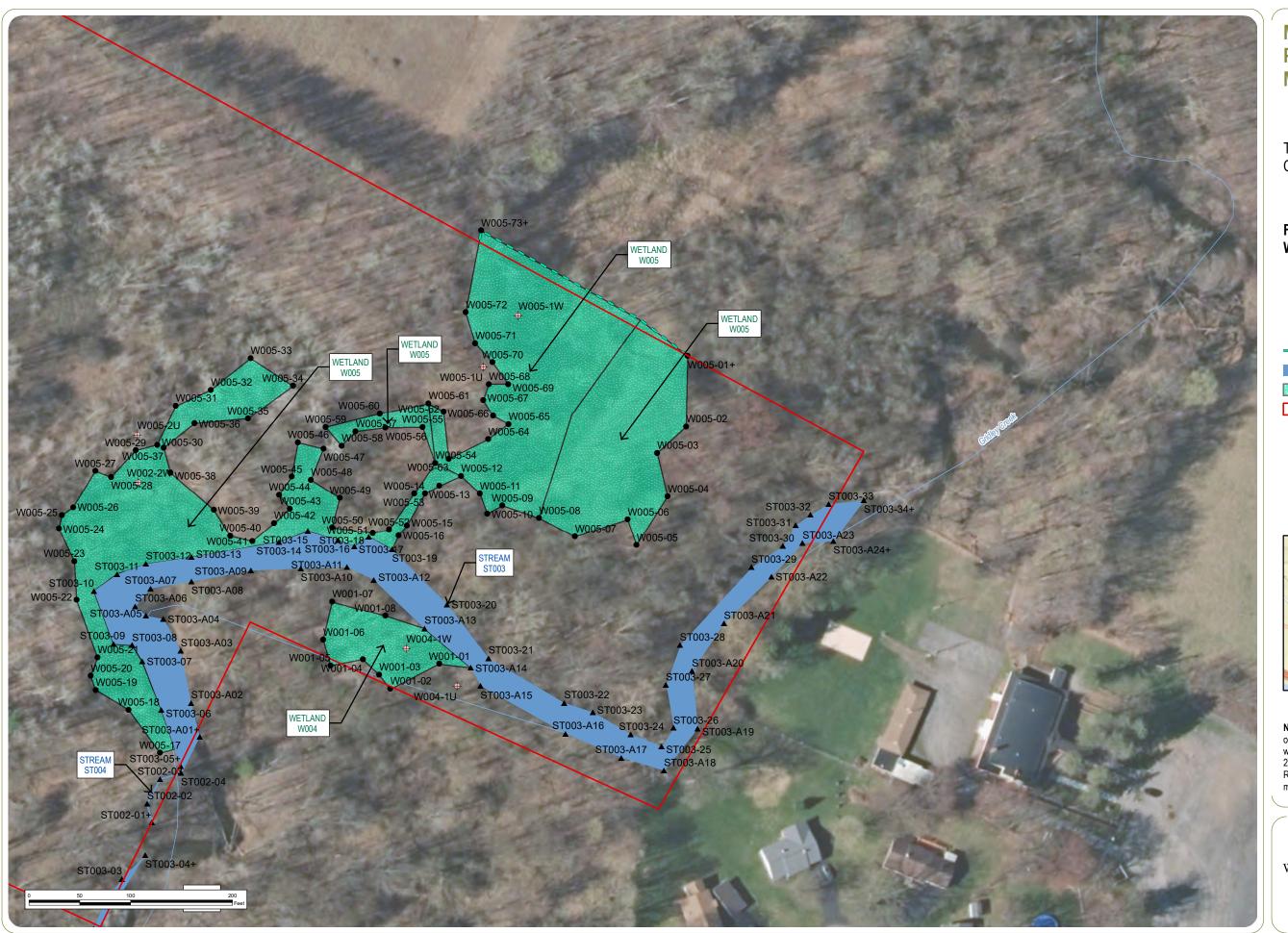
- Wetland Flag
- ▲ Stream Flag
- Datapoint Wetland
- Wetland Continues
- Delineated Stream
- Delineated Wetland
- Project Site





Sheet 4 of 5





Town of Marcy, Oneida County, New York

Figure 5: Delineated Wetlands and Streams

- Wetland Flag
- Stream Flag
- Datapoint Wetland
- Wetland Continues
- Delineated Stream
- Delineated Wetland
- Project Site



Sheet 5 of 5





APPENDIX B Routine Wetland Determination Data Sheets and Stream Inventory Forms

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Marcy Nanocenter Parkway Mixed-Use Master Plan	City/County: Oneida County Sampling Date: 11/05/2020				
Applicant/Owner: Mohawk Valley EDGE	State: NY Sampling Point: 001-1U				
Investigator(s): Rachael Miller, Courtney Scoles, and Samuel Gordon	Section, Township, Range: Town of Marcy				
	relief (concave, convex, none): convex Slope %: 0-5				
Subregion (LRR or MLRA): LRR R, MLRA 144A Lat: 43.133807	Long: -75.240443 Datum: WGS84				
Soil Map Unit Name: Herkimer channery silt loam	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 Hydrology significantly disturl					
Are Vegetation, Soil, or Hydrology naturally problems					
SUMMARY OF FINDINGS – Attach site map showing sam					
Hydrophytic Vegetation Present? Yes No X	Is the Sampled Area				
Hydric Soil Present? Yes No X	within a Wetland? Yes No X				
Wetland Hydrology Present? Yes No X	If yes, optional Wetland Site ID:				
HYDROLOGY					
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)				
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)				
Surface Water (A1) Water-Stained Leaves (E					
High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)				
Saturation (A3) Marl Deposits (B15)	Dry-Season Water Table (C2)				
Water Marks (B1) Hydrogen Sulfide Odor (
Sediment Deposits (B2) Oxidized Rhizospheres of the control of the					
Drift Deposits (B3) Presence of Reduced Iro					
Algal Mat or Crust (B4) Recent Iron Reduction in	· · · · · · · · · · · · · · · · · · ·				
Iron Deposits (B5) Thin Muck Surface (C7)					
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remark	<u> </u>				
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)				
Field Observations:					
Surface Water Present? Yes No X Depth (inches):	· <u></u>				
Water Table Present? Yes No X Depth (inches):					
Saturation Present? Yes No X Depth (inches):	Wetland Hydrology Present? Yes No X				
(includes capillary fringe)					
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	vious inspections), if available:				
Remarks:					

VEGETATION – Use scientific names of plants.

Sampling Point: 001-1U

Tree Stratum (Plot size: 30-foot radius)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1				Number of Dominant Species That Are OBL, FACW, or FAC:(A)
3. 4.				Total Number of Dominant Species Across All Strata: 2 (B)
5 6				Percent of Dominant Species That Are OBL, FACW, or FAC:(A/B)
7				Prevalence Index worksheet:
		=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15-foot radius)		•		OBL species 0 x 1 = 0
1.				FACW species 0 x 2 = 0
2				FAC species 0 x 3 = 0
3.				FACU species 55 x 4 = 220
4				UPL species 50 x 5 = 250
5				
6.				Prevalence Index = B/A = 4.48
7				Hydrophytic Vegetation Indicators:
		=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5-foot radius)				2 - Dominance Test is >50%
Lathyrus latifolius	50	Yes	UPL	3 - Prevalence Index is ≤3.0 ¹
2. Poa pratensis	50	Yes	FACU	4 - Morphological Adaptations ¹ (Provide supporting
3. Cirsium arvense	5	No	FACU	data in Remarks or on a separate sheet)
4		. <u> </u>		Problematic Hydrophytic Vegetation ¹ (Explain)
5				¹ Indicators of hydric soil and wetland hydrology must
6.				be present, unless disturbed or problematic.
7.				Definitions of Vegetation Strata:
8.				Tree Manda Planta 2 in (7.0 and) on many in
9.				Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
10.				
				Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
11.				and greater than or equal to 0.20 it (1 iii) tall.
12	105	=Total Cover		Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
Wasde Vine Chartens (Diet sine) 20 feet andies	103	- Total Cove		of size, and woody plants less than 3.20 it tall.
Woody Vine Stratum (Plot size: 30-foot radius)				Woody vines – All woody vines greater than 3.28 ft in
1				height.
2.				Hydrophytic
3.				Vegetation
4.				Present?
		=Total Cover		
Remarks: (Include photo numbers here or on a separ	ate sheet.)			

SOIL Sampling Point 001-1U

		the dept				tor or co	onfirm the absence of ind	icators.)
Depth (inches)	Matrix Color (moist)	%	Color (moist)	x Featur %	es Type ¹	Loc ²	Texture	Remarks
(inches)	Color (moist)	70	Color (moist)	70	Туре	LOC	rexture	Remarks
0-6	10YR 5/3	100					Loamy/Clayey	
								-
								_
¹ Type: C=Co	ncentration, D=Deple	tion, RM=	Reduced Matrix, M	1S=Mas	ked Sand	Grains.	² Location: PL=Po	ore Lining, M=Matrix.
Hydric Soil I	ndicators:							oblematic Hydric Soils ³ :
Histosol ((A1)		Polyvalue Belo	w Surfa	ce (S8) (I	_RR R,	2 cm Muck (A	A10) (LRR K, L, MLRA 149B)
	ipedon (A2)	_	MLRA 149B		. , .		Coast Prairie	Redox (A16) (LRR K, L, R)
Black His			Thin Dark Surfa	ace (S9)	(LRR R	MLRA 1		Peat or Peat (S3) (LRR K, L, R)
	n Sulfide (A4)	_	High Chroma S					low Surface (S8) (LRR K, L)
	Layers (A5)	_	Loamy Mucky					rface (S9) (LRR K, L)
	Below Dark Surface	(A11)	Loamy Gleyed			,		ese Masses (F12) (LRR K, L, R)
	rk Surface (A12)	` ' -	Depleted Matri		•			oodplain Soils (F19) (MLRA 149B)
	ucky Mineral (S1)	_	Redox Dark Su		⁻ 6)			(TA6) (MLRA 144A, 145, 149B)
	leyed Matrix (S4)	_	Depleted Dark				Red Parent M	
Sandy Re	edox (S5)		Redox Depress	sions (F	8)		Very Shallow	Dark Surface (F22)
Stripped	Matrix (S6)		Marl (F10) (LR	RK, L)			Other (Explai	n in Remarks)
Dark Sur	face (S7)		_	-				·
³ Indicators of	hydrophytic vegetation	on and wet	land hydrology mu	ıst be pr	esent, ur	less dist	urbed or problematic.	
	ayer (if observed):							
Type:	N/A							
Depth (in	ches).						Hydric Soil Present?	Yes No X
							,	
Remarks:	m is ravised from Nort	hcontrol o	and Northoast Pogi	onal Su	nnlomon	Vorcion	2.0 to include the NPCS E	ield Indicators of Hydric Soils,
	2015 Errata. (http://ww							iela maicators of riyanic sons,
	-0 10 =a.a. (p.//		raaige i/iiiiaiiia		, o			

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Marcy Nanocenter Parkway Mixed-Use Master Plan	City/County: Oneida County Sampling Date: 11/05/2020
Applicant/Owner: Mohawk Valley EDGE	State: NY Sampling Point: 001-1W
Investigator(s): Rachael Miller, Courtney Scoles, and Samuel Gordon	Section, Township, Range: Town of Marcy
-	relief (concave, convex, none): Concave Slope %: 0-5
Subregion (LRR or MLRA): LRR R, MLRA 144A Lat: 43.133864	Long: -75.240574 Datum: WGS84
Soil Map Unit Name: Herkimer channery silt loam	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 Hydrology significantly distur	
Are Vegetation , Soil , or Hydrology naturally problems	
SUMMARY OF FINDINGS – Attach site map showing sam	
Hydrophytic Vegetation Present? Yes X No	Is the Sampled Area
Hydric Soil Present? Yes No X	within a Wetland? Yes X No
Wetland Hydrology Present? Yes X No	If yes, optional Wetland Site ID: 001
Remarks: (Explain alternative procedures here or in a separate report.) rock restriction at 0" prevented soils samples from being collected	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
X Surface Water (A1) Water-Stained Leaves (I	
X High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)
X Saturation (A3) Marl Deposits (B15)	Dry-Season Water Table (C2)
Water Marks (B1) Hydrogen Sulfide Odor (
Sediment Deposits (B2) Oxidized Rhizospheres of the control of th	
Drift Deposits (B3) Presence of Reduced Iro	<u> </u>
Algal Mat or Crust (B4) Recent Iron Reduction in	
Iron Deposits (B5) Thin Muck Surface (C7)	
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remar	
Sparsely Vegetated Concave Surface (B8)	X FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes X No Depth (inches):	
Water Table Present? Yes X No Depth (inches):	
Saturation Present? Yes X No Depth (inches):	Wetland Hydrology Present? Yes X No
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	evious inspections), if available:
P	
Remarks:	

VEGETATION – Use scientific names of plants.

Sampling Point: 001-1W

<u>Tree Stratum</u> (Plot size: <u>30-foot radius</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1				Number of Dominant Species That Are OBL, FACW, or FAC:(A)
3. 4.				Total Number of Dominant Species Across All Strata: 2 (B)
5 6				Percent of Dominant Species That Are OBL, FACW, or FAC:100.0%(A/B)
7				Prevalence Index worksheet:
		=Total Cover		Total % Cover of: Multiply by:
<u>Sapling/Shrub Stratum</u> (Plot size: 15-foot radius)				OBL species 30 x 1 = 30
				FACW species 30 x 2 = 60
3				FAC species 0 x 3 = 0
3.				
-				
4				UPL species 0 x 5 = 0
5				Column Totals: 60 (A) 90 (B)
6				Prevalence Index = B/A =1.50
7.		. <u> </u>		Hydrophytic Vegetation Indicators:
		=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5-foot radius)				X 2 - Dominance Test is >50%
1. Phragmites australis	30	Yes	FACW	3 - Prevalence Index is ≤3.0 ¹
Typha angustifolia	30	Yes	OBL	4 - Morphological Adaptations ¹ (Provide supporting
		103	ODL	data in Remarks or on a separate sheet)
				
4				Problematic Hydrophytic Vegetation ¹ (Explain)
5				¹ Indicators of hydric soil and wetland hydrology must
6				be present, unless disturbed or problematic.
7				Definitions of Vegetation Strata:
8.				Tree – Woody plants 3 in. (7.6 cm) or more in
9.				diameter at breast height (DBH), regardless of height.
10.				
11.				Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
				and groater than or equal to 0.20 k (1 m) tail.
12		T-4-1 0		Herb – All herbaceous (non-woody) plants, regardless
	60	=Total Cover		of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size: 30-foot radius)				Woody vines – All woody vines greater than 3.28 ft in
1				height.
2				Undrankatia
3		. <u> </u>		Hydrophytic Vegetation
4				Present? Yes X No
		=Total Cover		
Remarks: (Include photo numbers here or on a sepa	ate sheet.)			
	,			

SOIL Sampling Point 001-1W

	•	o the dep				tor or co	onfirm the absence of inc	dicators.)
Depth	Matrix			x Featur		. 2	- .	.
(inches)	Color (moist)	%	Color (moist)	<u>%</u>	Type ¹	Loc ²	Texture	Remarks
			-					
			_					
			_					
			_					
¹Type: C=Co	ncentration, D=Deple	etion RM=	Reduced Matrix N	Masl	ked Sand	Grains	² Location: PL=P	ore Lining, M=Matrix.
Hydric Soil I		otion, raivi	Troduced Waters, II	ivido	itou ouriu	Ordino.		roblematic Hydric Soils ³ :
Histosol (Polyvalue Belo	w Surfa	co (SS) (I	DD D		A10) (LRR K, L, MLRA 149B)
		_	MLRA 149B		ce (30) (I	-NN N,		
	ipedon (A2)			•	/I DD D	MI DA 4		e Redox (A16) (LRR K, L, R)
Black His		_	Thin Dark Surf		-			Peat or Peat (S3) (LRR K, L, R)
	Sulfide (A4)	_	High Chroma S					elow Surface (S8) (LRR K, L)
	Layers (A5)	-	Loamy Mucky			R K, L)		urface (S9) (LRR K, L)
	Below Dark Surface	(A11) _	Loamy Gleyed		F2)			nese Masses (F12) (LRR K, L, R)
	rk Surface (A12)	_	Depleted Matri					oodplain Soils (F19) (MLRA 149B)
Sandy M	ucky Mineral (S1)	_	Redox Dark Su	ırface (F	6)		Mesic Spodi	c (TA6) (MLRA 144A, 145, 149B)
Sandy Gl	eyed Matrix (S4)	_	Depleted Dark	Surface	(F7)		Red Parent I	Material (F21)
Sandy Re	edox (S5)	_	Redox Depress	sions (F	3)		Very Shallov	v Dark Surface (F22)
Stripped	Matrix (S6)	_	Marl (F10) (LR	R K , L)			Other (Expla	iin in Remarks)
Dark Sur	face (S7)							
³ Indicators of	hydrophytic vegetation	on and we	tland hydrology mu	ıst be pr	esent, ur	ıless dist	urbed or problematic.	
Restrictive L	ayer (if observed):							
Type:	Rock	<						
Depth (in	ches).	0					Hydric Soil Present?	Yes No X
							Tryunc don't resent:	163 <u> 163 X</u>
Remarks:							004 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
	n is revised from Nor 2015 Errata. (http://w							Field Indicators of Hydric Soils,
version 7.0, 2	2015 Effata. (fittp://w	ww.nrcs.u	sua.gov/internet/F	SE_DOC	OWENT	5/1105 142	2p2_051293.docx)	

Project/Site: Marcy Nanocenter Parkway Mixed-Use Master Plan	City/County: Oneida County Sampling Date: 11/05/2020
Applicant/Owner: Mohawk Valley EDGE	State: NY Sampling Point: 002-1U
Investigator(s): Rachael Miller, Courtney Scoles, and Samuel Gordon	Section, Township, Range: Town of Marcy
	relief (concave, convex, none): Convex Slope %: 0-5
Subregion (LRR or MLRA): LRR R, MLRA 144A Lat: 43.129764	Long: -75.243973 Datum: WGS84
Soil Map Unit Name: Udorthents, smooth	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 Hydrology significantly disturb	
Are Vegetation, Soil, or Hydrology naturally problems	
SUMMARY OF FINDINGS – Attach site map showing sam	
Hydrophytic Vegetation Present? Yes No X	Is the Sampled Area
Hydric Soil Present? Yes No X	within a Wetland? Yes No X
Wetland Hydrology Present? Yes No X	If yes, optional Wetland Site ID:
Remarks: (Explain alternative procedures here or in a separate report.)	
LIVERELEGY	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) Water-Stained Leaves (B	
High Water Table (A2) Aquatic Fauna (B13) Authorities (A4)	Moss Trim Lines (B16)
Saturation (A3) Marl Deposits (B15) Hade gen Suffix Odes (Dry-Season Water Table (C2)
Water Marks (B1)	
Sediment Deposits (B2) Oxidized Rhizospheres of Podes of	
Drift Deposits (B3) Presence of Reduced Iro	
Algal Mat or Crust (B4) Recent Iron Reduction in This Mark Surface (O7)	· · · · · · · · · · · · · · · · · · ·
Iron Deposits (B5) Thin Muck Surface (C7)	
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remark	<u> </u>
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral 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 Hydrology Present? Yes No _X_
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	vious inspections), if available:
Remarks:	

VEGETATION – Use scientific names of plants.

Sampling Point: ____002-1U

<u>Tree Stratum</u> (Plot size: 30-foot radius)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
Fraxinus americana	3	Yes	FACU	
2. Pinaceae	5	Yes		Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)
3. 4.				Total Number of Dominant Species Across All Strata: 3 (B)
5 6				Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)
7				Prevalence Index worksheet:
	8	=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15-foot radius)				OBL species0 x 1 =0
1				FACW species 0 x 2 = 0
2.				FAC species0 x 3 =0
3.				FACU species 93 x 4 = 372
4				UPL species 0 x 5 = 0
5.				Column Totals: 93 (A) 372 (B)
6.				Prevalence Index = B/A = 4.00
7.				Hydrophytic Vegetation Indicators:
		=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
<u>Herb Stratum</u> (Plot size: 5-foot radius)				2 - Dominance Test is >50%
1. Poa pratensis	90	Yes	FACU	3 - Prevalence Index is ≤3.0 ¹
2			17100	4 - Morphological Adaptations ¹ (Provide supporting
3.				data in Remarks or on a separate sheet)
4				Problematic Hydrophytic Vegetation ¹ (Explain)
5 6.				¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
7.				Definitions of Vegetation Strata:
8.				-
9.				Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
10.				Sapling/shrub – Woody plants less than 3 in. DBH
11				and greater than or equal to 3.28 ft (1 m) tall.
12				Herb – All herbaceous (non-woody) plants, regardless
	90	=Total Cover		of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size: 30-foot radius) 1.				Woody vines – All woody vines greater than 3.28 ft in height.
				neight.
	-			Hydrophytic
3.				Vegetation
4				Present? Yes No _X
		=Total Cover		
Remarks: (Include photo numbers here or on a separ	ate sileet.)			

SOIL Sampling Point 002-1U

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Loamy/Clayey	0-18 10YR 5/3 100 Loamy/Clayey 1 Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. 1 Hydric Soil Indicators: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, Histo Epipedon (A2) MLRA 149B) Histic Epipedon (A2) MLRA 149B) Stripted Layers (A5) Loamy Mucky Mineral (F1) (LRR K, L) Depleted Below Dark Surface (A11) Loamy Gleyed Matrix (F2) Thick Dark Surface (A12) Depleted Matrix (F3) Piedmont Floodplain Soils (F19) (MLRR K, L) Sandy Gleyed Matrix (S4) Depleted Dark Surface (F6) Mesic Spodic (TA6) (MLRA 144, 145, 15 Stripped Matrix (S4) Depleted Dark Surface (F7) Redox Dark Surface (F2) Sandy Redox (S5) Redox Depressions (F8) Very Shallow Dark Surface (F22) Dark Surface (S7) Planta
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) High Chroma Sands (S11) (LRR K, L) Coast Prairie Redox (A16) (LRR K, L, R) Hydrogen Sulfide (A4) High Chroma Sands (S11) (LRR K, L) Depleted Below Dark Surface (A11) Depleted Below Dark Surface (A11) Depleted Below Dark Surface (A12) Sandy Mucky Mineral (F1) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Redox Dark Surface (F7) Red Parent Material (F21) Sandy Redox (S5) Agandy Redox (S6) A	Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. PL=Pore Lining, M=Matrix. Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) High Chroma Sands (S11) (LRR K, L) Stratified Layers (A5) Loamy Mucky Mineral (F1) (LRR K, L) Depleted Below Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (F3) Pedmont Floodplain Soils (F19) (MLRA 1443, 145, 148) Sandy Gleyed Matrix (F3) Sandy Redox (S5) Redox Dark Surface (F7) Red Parent Material (F21) Sandy Redox (S5) Marl (F10) (LRR K, L) Dark Surface (S7) Pindicators of Problematic Hydric Soils*: 1
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Black Histic (A3) High Chroma Sands (S11) (LRR K, L) Depleted Below Dark Surface (A11) Depleted Below Dark Surface (A11) Depleted Below Dark Surface (A11) Depleted Below Dark Surface (A12) Sandy Mucky Mineral (F1) Sandy Mucky Mineral (F3) Sandy Mucky Mineral (F3) Sandy Gleyed Matrix (S4) Sandy Gleyed Matrix (S4) Sandy Gleyed Matrix (S4) Sandy Redox (A55) Beleted Dark Surface (A12) Sandy Redox (A15) Sandy Mucky	Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Ptyper C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Phydric Soil Indicators: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, Indicators for Problematic Hydric Soils*: 2 cm Muck (A10) (LRR K, L, MLRA 149B) Black Histic Epipedon (A2) MLRA 149B) Black Histic (A3) Hydrogen Sulfide (A4) High Chroma Sands (S11) (LRR K, L) Stratified Layers (A5) Loamy Mucky Mineral (F1) (LRR K, L) Depleted Below Dark Surface (A11) Loamy Gleyed Matrix (F2) Depleted Below Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Redox Dark Surface (F6) Mesic Spodic (TA6) (MLRA 144A, 145, 145) Sandy Redox (S5) Redox Depressions (F8) Very Shallow Dark Surface (F22) Other (Explain in Remarks) Pledmont Floodplain Remarks) Planticators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.
Hydric Soil Indicators: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, Histic Epipedon (A2) MLRA 149B) Polyvalue Below Surface (S9) (LRR R, Histic Epipedon (A2) MLRA 149B) Doard Prairie Redox (A16) (LRR K, L, MLRA 149B) Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) Hydrogen Sulfide (A4) High Chroma Sands (S11) (LRR K, L) Stratified Layers (A5) Loamy Mucky Mineral (F1) (LRR K, L) Depleted Below Dark Surface (A11) Loamy Gleyed Matrix (F2) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Depleted Dark Surface (F6) Sandy Redox (S5) Redox Depressions (F8) Stripped Matrix (S6) Marl (F10) (LRR K, L) Chark Surface (S9) (LRR K, L) Polyvalue Below Surface (S9) (LRR K, L) Polyvalue Surface (S9) (LRR K, L) Polyvalue Surfac	Hydric Soil Indicators: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, RLRA 149B) Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Gleyed Matrix (S4) Stripped Matrix (S6) Marl (F10) (LRR K, L) Marl (F10) (LRR K, L) Marl (F10) (LRR K, L) Depleted Dark Surface (S7) Charlet Caper (If observed):
Hydric Soil Indicators: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, Histic Epipedon (A2) MLRA 149B) Polyvalue Below Surface (S9) (LRR R, Histic Epipedon (A2) MLRA 149B) Doard Prairie Redox (A16) (LRR K, L, MLRA 149B) Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) Hydrogen Sulfide (A4) High Chroma Sands (S11) (LRR K, L) Stratified Layers (A5) Loamy Mucky Mineral (F1) (LRR K, L) Depleted Below Dark Surface (A11) Loamy Gleyed Matrix (F2) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Depleted Dark Surface (F6) Sandy Redox (S5) Redox Depressions (F8) Stripped Matrix (S6) Marl (F10) (LRR K, L) Chark Surface (S9) (LRR K, L) Polyvalue Below Surface (S9) (LRR K, L) Polyvalue Surface (S9) (LRR K, L) Polyvalue Surfac	Hydric Soil Indicators: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, RLRA 149B) Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Gleyed Matrix (S4) Stripped Matrix (S6) Marl (F10) (LRR K, L) Marl (F10) (LRR K, L) Marl (F10) (LRR K, L) Depleted Dark Surface (S7) Charlet Caper (If observed):
Hydric Soil Indicators: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, Histic Epipedon (A2) MLRA 149B) Polyvalue Below Surface (S9) (LRR R, Histic Epipedon (A2) MLRA 149B) Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) High Chroma Sands (S11) (LRR K, L) Stratified Layers (A5) Loamy Mucky Mineral (F1) (LRR K, L) Depleted Below Dark Surface (A11) Loamy Gleyed Matrix (F2) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Depleted Dark Surface (F7) Sandy Redox (S5) Redox Depressions (F8) Stripped Matrix (S6) Dark Surface (S7) Plandicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Indicators for Problematic Hydric Soils ³ : 2 cm Muck (A10) (LRR K, L, MLRA 149B) Coast Prairie Redox (A10) (LRR K, L, R) 2 cm Muck (A10) (LRR K, L, R) Polyvalue Below Surface (S8) (LRR K, L, R) Polyvalue Below Surface (S8) (LRR K, L, R) Polyvalue Below Surface (S9) (LRR K, L) Polyvalue Below Surface (S9)	Hydric Soil Indicators: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, RL R, L, R) Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) Hydrogen Sulfide (A4) Stratified Layers (A5) Loamy Mucky Mineral (F1) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A11) Depleted Below Dark Surface (A12) Depleted Matrix (F3) Sandy Mucky Mineral (S1) Redox Dark Surface (F6) Mesic Spodic (TA6) (MLRA 144A, 145, 145, 145, 145, 145, 145, 145, 145
Hydric Soil Indicators: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, Histic Epipedon (A2) MLRA 149B) Polyvalue Below Surface (S9) (LRR R, Histic Epipedon (A2) MLRA 149B) Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) High Chroma Sands (S11) (LRR K, L) Stratified Layers (A5) Loamy Mucky Mineral (F1) (LRR K, L) Depleted Below Dark Surface (A11) Loamy Gleyed Matrix (F2) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Depleted Dark Surface (F7) Sandy Redox (S5) Redox Depressions (F8) Stripped Matrix (S6) Dark Surface (S7) Plandicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Indicators for Problematic Hydric Soils ³ : 2 cm Muck (A10) (LRR K, L, MLRA 149B) Coast Prairie Redox (A10) (LRR K, L, R) 2 cm Muck (A10) (LRR K, L, R) Polyvalue Below Surface (S8) (LRR K, L, R) Polyvalue Below Surface (S8) (LRR K, L, R) Polyvalue Below Surface (S9) (LRR K, L) Polyvalue Below Surface (S9)	Hydric Soil Indicators: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, RL R, L, R) Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) Hydrogen Sulfide (A4) Stratified Layers (A5) Loamy Mucky Mineral (F1) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A11) Depleted Below Dark Surface (A12) Depleted Matrix (F3) Sandy Mucky Mineral (S1) Redox Dark Surface (F6) Mesic Spodic (TA6) (MLRA 144A, 145, 145, 145, 145, 145, 145, 145, 145
Hydric Soil Indicators: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, Histic Epipedon (A2) MLRA 149B) Polyvalue Below Surface (S9) (LRR R, Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) Stratified Layers (A5) Loamy Mucky Mineral (F1) (LRR K, L) Polyvalue Below Surface (S9) (LRR K, L) Depleted Below Dark Surface (A11) Loamy Gleyed Matrix (F2) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Redox Depressions (F8) Stripped Matrix (S6) Dark Surface (S7) Marl (F10) (LRR K, L) Other (Explain in Remarks) Polyvalue Below Cufface (A12) Polyvalue Below Surface (S9) (LRR K, L) Polyvalue Below Surface (S8) (LRR K, L) Polyvalue Below Surface (S9) (LRR K, L) Polyvalue Below S	Hydric Soil Indicators: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, RL R, L, R) High Chroma Sands (S11) (LRR K, L) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) Redox Dark Surface (F10) Marl (F10) (LRR K, L) Marl (F10) (LRR K, L) 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) Polyvalue Below Surface (S8) (LRR K, L) Thin Dark Surface (S8) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L) Piedmont Floodplain Soils (F19) (MLRA Mesic Spodic (TA6) (MLRA 144A, 145, 145, 145, 145, 145, 145, 145, 145
Hydric Soil Indicators: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, Histosol (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, MLRA 149B) Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Redox Depressions (F8) Stripped Matrix (S6) Dark Surface (S7) Restrictive Layer (if observed): Type: N/A	Hydric Soil Indicators: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, Histosol (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, RLRA 149B) Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Redox Dark Surface (F6) Sandy Gleyed Matrix (S4) Depleted Dark Surface (F7) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) Marl (F10) (LRR K, L) 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) Polyvalue Below Surface (S8) (LRR K, L) Thin Dark Surface (S8) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L) Piedmont Floodplain Soils (F19) (MLRA 144A, 145, 145, 145, 145, 145, 145, 145, 145
Hydric Soil Indicators: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, Histosol (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, MLRA 149B) Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Redox Depressions (F8) Stripped Matrix (S6) Dark Surface (S7) Restrictive Layer (if observed): Type: N/A	Hydric Soil Indicators: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, Histosol (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, RLRA 149B) Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Redox Dark Surface (F6) Sandy Gleyed Matrix (S4) Depleted Dark Surface (F7) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) Marl (F10) (LRR K, L) 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) Polyvalue Below Surface (S8) (LRR K, L) Thin Dark Surface (S8) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L) Piedmont Floodplain Soils (F19) (MLRA 144A, 145, 145, 145, 145, 145, 145, 145, 145
Hydric Soil Indicators: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, Histic Epipedon (A2) MLRA 149B) Polyvalue Below Surface (S9) (LRR R, Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) Stratified Layers (A5) Loamy Mucky Mineral (F1) (LRR K, L) Polyvalue Below Surface (S9) (LRR K, L) Depleted Below Dark Surface (A11) Loamy Gleyed Matrix (F2) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Redox Depressions (F8) Stripped Matrix (S6) Dark Surface (S7) Marl (F10) (LRR K, L) Other (Explain in Remarks) Polyvalue Below Cufface (A12) Polyvalue Below Surface (S9) (LRR K, L) Polyvalue Below Surface (S8) (LRR K, L) Polyvalue Below Surface (S9) (LRR K, L) Polyvalue Below S	Hydric Soil Indicators: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, RL R, L, R) High Chroma Sands (S11) (LRR K, L) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) Redox Dark Surface (F10) Marl (F10) (LRR K, L) Marl (F10) (LRR K, L) 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) Polyvalue Below Surface (S8) (LRR K, L) Thin Dark Surface (S8) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L) Piedmont Floodplain Soils (F19) (MLRA Mesic Spodic (TA6) (MLRA 144A, 145, 145, 145, 145, 145, 145, 145, 145
Hydric Soil Indicators: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, Histic Epipedon (A2) MLRA 149B) Polyvalue Below Surface (S9) (LRR R, Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) Stratified Layers (A5) Loamy Mucky Mineral (F1) (LRR K, L) Polyvalue Below Surface (S9) (LRR K, L) Depleted Below Dark Surface (A11) Loamy Gleyed Matrix (F2) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Redox Depressions (F8) Stripped Matrix (S6) Dark Surface (S7) Marl (F10) (LRR K, L) Other (Explain in Remarks) Polyvalue Below Cufface (A12) Polyvalue Below Surface (S9) (LRR K, L) Polyvalue Below Surface (S8) (LRR K, L) Polyvalue Below Surface (S9) (LRR K, L) Polyvalue Below S	Hydric Soil Indicators: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, RL R, L, R) High Chroma Sands (S11) (LRR K, L) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) Redox Dark Surface (F10) Marl (F10) (LRR K, L) Marl (F10) (LRR K, L) 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) Polyvalue Below Surface (S8) (LRR K, L) Thin Dark Surface (S8) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L) Piedmont Floodplain Soils (F19) (MLRA Mesic Spodic (TA6) (MLRA 144A, 145, 145, 145, 145, 145, 145, 145, 145
Hydric Soil Indicators: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, Histic Epipedon (A2) MLRA 149B) Polyvalue Below Surface (S9) (LRR R, Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) Stratified Layers (A5) Loamy Mucky Mineral (F1) (LRR K, L) Polyvalue Below Surface (S9) (LRR K, L) Depleted Below Dark Surface (A11) Loamy Gleyed Matrix (F2) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Redox Depressions (F8) Stripped Matrix (S6) Dark Surface (S7) Marl (F10) (LRR K, L) Other (Explain in Remarks) Polyvalue Below Cufface (A12) Polyvalue Below Surface (S9) (LRR K, L) Polyvalue Below Surface (S8) (LRR K, L) Polyvalue Below Surface (S9) (LRR K, L) Polyvalue Below S	Hydric Soil Indicators: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, RL R, L, R) High Chroma Sands (S11) (LRR K, L) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) Redox Dark Surface (F10) Marl (F10) (LRR K, L) Marl (F10) (LRR K, L) 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) Polyvalue Below Surface (S8) (LRR K, L) Thin Dark Surface (S8) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L) Piedmont Floodplain Soils (F19) (MLRA Mesic Spodic (TA6) (MLRA 144A, 145, 145, 145, 145, 145, 145, 145, 145
Hydric Soil Indicators: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, Histic Epipedon (A2) MLRA 149B) Polyvalue Below Surface (S9) (LRR R, Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) Stratified Layers (A5) Loamy Mucky Mineral (F1) (LRR K, L) Polyvalue Below Surface (S9) (LRR K, L) Depleted Below Dark Surface (A11) Loamy Gleyed Matrix (F2) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Redox Depressions (F8) Stripped Matrix (S6) Dark Surface (S7) Marl (F10) (LRR K, L) Other (Explain in Remarks) Polyvalue Below Cufface (A12) Polyvalue Below Surface (S9) (LRR K, L) Polyvalue Below Surface (S8) (LRR K, L) Polyvalue Below Surface (S9) (LRR K, L) Polyvalue Below S	Hydric Soil Indicators: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, RL R, L, R) High Chroma Sands (S11) (LRR K, L) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) Redox Dark Surface (F10) Marl (F10) (LRR K, L) Marl (F10) (LRR K, L) 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) Polyvalue Below Surface (S8) (LRR K, L) Thin Dark Surface (S8) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L) Piedmont Floodplain Soils (F19) (MLRA Mesic Spodic (TA6) (MLRA 144A, 145, 145, 145, 145, 145, 145, 145, 145
Hydric Soil Indicators: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, Histic Epipedon (A2) MLRA 149B) Polyvalue Below Surface (S9) (LRR R, Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) Stratified Layers (A5) Loamy Mucky Mineral (F1) (LRR K, L) Polyvalue Below Surface (S9) (LRR K, L) Depleted Below Dark Surface (A11) Loamy Gleyed Matrix (F2) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Redox Depressions (F8) Stripped Matrix (S6) Dark Surface (S7) Marl (F10) (LRR K, L) Other (Explain in Remarks) Polyvalue Below Cufface (A12) Polyvalue Below Surface (S9) (LRR K, L) Polyvalue Below Surface (S8) (LRR K, L) Polyvalue Below Surface (S9) (LRR K, L) Polyvalue Below S	Hydric Soil Indicators: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, RL R, L, R) High Chroma Sands (S11) (LRR K, L) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) Redox Dark Surface (F10) Marl (F10) (LRR K, L) Marl (F10) (LRR K, L) 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) Polyvalue Below Surface (S8) (LRR K, L) Thin Dark Surface (S8) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L) Piedmont Floodplain Soils (F19) (MLRA Mesic Spodic (TA6) (MLRA 144A, 145, 145, 145, 145, 145, 145, 145, 145
Hydric Soil Indicators: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, Histic Epipedon (A2) MLRA 149B) Polyvalue Below Surface (S9) (LRR R, Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) Stratified Layers (A5) Loamy Mucky Mineral (F1) (LRR K, L) Polyvalue Below Surface (S9) (LRR K, L) Depleted Below Dark Surface (A11) Loamy Gleyed Matrix (F2) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Redox Depressions (F8) Stripped Matrix (S6) Dark Surface (S7) Marl (F10) (LRR K, L) Other (Explain in Remarks) Polyvalue Below Cufface (A12) Polyvalue Below Surface (S9) (LRR K, L) Polyvalue Below Surface (S8) (LRR K, L) Polyvalue Below Surface (S9) (LRR K, L) Polyvalue Below S	Hydric Soil Indicators: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, RL R, L, R) High Chroma Sands (S11) (LRR K, L) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) Redox Dark Surface (F10) Marl (F10) (LRR K, L) Marl (F10) (LRR K, L) 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) Polyvalue Below Surface (S8) (LRR K, L) Thin Dark Surface (S8) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L) Piedmont Floodplain Soils (F19) (MLRA Mesic Spodic (TA6) (MLRA 144A, 145, 145, 145, 145, 145, 145, 145, 145
Hydric Soil Indicators: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, Histic Epipedon (A2) MLRA 149B) Polyvalue Below Surface (S9) (LRR R, Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) Stratified Layers (A5) Loamy Mucky Mineral (F1) (LRR K, L) Polyvalue Below Surface (S9) (LRR K, L) Depleted Below Dark Surface (A11) Loamy Gleyed Matrix (F2) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Redox Depressions (F8) Stripped Matrix (S6) Dark Surface (S7) Marl (F10) (LRR K, L) Other (Explain in Remarks) Polyvalue Below Cufface (A12) Polyvalue Below Surface (S8) (LRR K, L) Polyvalue Below Surface (S8) (LRR K, L, R) Polyvalue Below Surface (S9) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Polyvalue Below Surface (S9) (LRR K, L) Polyvalue Below Surface (S9) (LRR K, L) Polyvalue Below Surface (S9) (LRR K, L, R) Polyvalue Below Surface (S9) (LRR K, L, R) Polyvalue Below Surface (S9) (LRR K, L) Polyvalue Surface (S9) (LRR K, L) Polyvalue Surface (S9) (LRR	Hydric Soil Indicators: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, RL R, L, R) Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Redox Dark Surface (F7) Stripped Matrix (S6) Marl (F10) (LRR K, L) Marl (F10) (LRR K, L) 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) Polyvalue Below Surface (S8) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L) Piedmont Floodplain Soils (F19) (MLRA 144A, 145, 145, 145, 145, 145, 145, 145, 145
Hydric Soil Indicators: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, Histic Epipedon (A2) MLRA 149B) Polyvalue Below Surface (S9) (LRR R, Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) Stratified Layers (A5) Loamy Mucky Mineral (F1) (LRR K, L) Polyvalue Below Surface (S9) (LRR K, L) Depleted Below Dark Surface (A11) Loamy Gleyed Matrix (F2) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Redox Depressions (F8) Stripped Matrix (S6) Dark Surface (S7) Marl (F10) (LRR K, L) Other (Explain in Remarks) Polyvalue Below Cufface (A12) Polyvalue Below Surface (S8) (LRR K, L) Polyvalue Below Surface (S8) (LRR K, L, R) Polyvalue Below Surface (S9) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Polyvalue Below Surface (S9) (LRR K, L) Polyvalue Below Surface (S9) (LRR K, L) Polyvalue Below Surface (S9) (LRR K, L, R) Polyvalue Below Surface (S9) (LRR K, L, R) Polyvalue Below Surface (S9) (LRR K, L) Polyvalue Surface (S9) (LRR K, L) Polyvalue Surface (S9) (LRR	Hydric Soil Indicators: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, RL R, L, R) Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Redox Dark Surface (F7) Stripped Matrix (S6) Marl (F10) (LRR K, L) Marl (F10) (LRR K, L) 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) Polyvalue Below Surface (S8) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L) Piedmont Floodplain Soils (F19) (MLRA 144A, 145, 145, 145, 145, 145, 145, 145, 145
Hydric Soil Indicators: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, Histic Epipedon (A2) MLRA 149B) Polyvalue Below Surface (S9) (LRR R, Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) Stratified Layers (A5) Loamy Mucky Mineral (F1) (LRR K, L) Polyvalue Below Surface (S9) (LRR K, L) Depleted Below Dark Surface (A11) Loamy Gleyed Matrix (F2) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Redox Depressions (F8) Stripped Matrix (S6) Dark Surface (S7) Marl (F10) (LRR K, L) Other (Explain in Remarks) Polyvalue Below Cufface (A12) Polyvalue Below Surface (S8) (LRR K, L) Polyvalue Below Surface (S8) (LRR K, L, R) Polyvalue Below Surface (S9) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Polyvalue Below Surface (S9) (LRR K, L) Polyvalue Below Surface (S9) (LRR K, L) Polyvalue Below Surface (S9) (LRR K, L, R) Polyvalue Below Surface (S9) (LRR K, L, R) Polyvalue Below Surface (S9) (LRR K, L) Polyvalue Surface (S9) (LRR K, L) Polyvalue Surface (S9) (LRR	Hydric Soil Indicators: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, RL R, L, R) Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Redox Dark Surface (F7) Stripped Matrix (S6) Marl (F10) (LRR K, L) Marl (F10) (LRR K, L) 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) Polyvalue Below Surface (S8) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L) Piedmont Floodplain Soils (F19) (MLRA 144A, 145, 145, 145, 145, 145, 145, 145, 145
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Histic Epipedon (A2) Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A11) Sandy Mucky Mineral (F1) (LRR K, L) Finck Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Marl (F10) (LRR K, L) Marl (F10) (LRR K, L) Coast Prairie Redox (A16) (LRR K, L, R) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Polyvalue Below Surface (S8) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Inon-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 144, 145, 149) Sandy Mucky Mineral (S1) Redox Dark Surface (F6) Mesic Spodic (TA6) (MLRA 144A, 145, 149) Sandy Redox (S5) Red Parent Material (F21) Very Shallow Dark Surface (F22) Stripped Matrix (S6) Dark Surface (S7) And (F10) (LRR K, L) Other (Explain in Remarks) Piedmont Floodplain Soils (F19) (MLRA 144, 145, 149) Mesic Spodic (TA6) (MLRA 144A, 145, 149) Mesic Spodic (TA6) (MLRA 144A, 145, 149) Mesic Spodic (TA6) (MLRA 144A, 145, 149) Sandy Redox (S5) Red Parent Material (F21) Very Shallow Dark Surface (F22) Other (Explain in Remarks) Other (Explain in Remarks) Piedmont Floodplain Soils (F19) (MLRA 144A, 145, 149) Mesic Spodic (TA6) (ML	Histic Epipedon (A2) Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) Stratified (A4) High Chroma Sands (S11) (LRR K, L) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Redox Dark Surface (F6) Sandy Gleyed Matrix (S4) Depleted Dark Surface (F7) Sandy Redox (S5) Redox Depressions (F8) Stripped Matrix (S6) Dark Surface (S7) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R, R, R) Follyvalue Below Surface (S8) (LRR K, L) Polyvalue Below Surface (S8) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L) Piedmont Floodplain Soils (F19) (MLRA 144A, 145, 145, 145, 145, 145, 145, 145, 145
Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R Hydrogen Sulfide (A4) High Chroma Sands (S11) (LRR K, L) Polyvalue Below Surface (S8) (LRR K, L) Stratified Layers (A5) Loamy Mucky Mineral (F1) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L, F) Thick Dark Surface (A11) Loamy Gleyed Matrix (F2) Iron-Manganese Masses (F12) (LRR K, L, F) Thick Dark Surface (A12) Depleted Matrix (F3) Piedmont Floodplain Soils (F19) (MLRA 144 A, 145, 149) Sandy Mucky Mineral (S1) Redox Dark Surface (F6) Mesic Spodic (TA6) (MLRA 144A, 145, 149) Sandy Redox (S5) Redox Depressions (F8) Very Shallow Dark Surface (F22) Stripped Matrix (S6) Marl (F10) (LRR K, L) Other (Explain in Remarks) Dark Surface (S7) **Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.** **Restrictive Layer (if observed): Type: N/A	Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) 5 cm Mucky Peat or Peat (S3) (LRR K, L Hydrogen Sulfide (A4) High Chroma Sands (S11) (LRR K, L) Polyvalue Below Surface (S8) (LRR K, L Stratified Layers (A5) Loamy Mucky Mineral (F1) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L Depleted Below Dark Surface (A11) Loamy Gleyed Matrix (F2) Iron-Manganese Masses (F12) (LRR K, L Depleted Dark Surface (A12) Piedmont Floodplain Soils (F19) (MLRA Sandy Mucky Mineral (S1) Redox Dark Surface (F6) Mesic Spodic (TA6) (MLRA 144A, 145, 145, 145, 145, 145, 145, 145, 145
Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thin Dark Surface (S9) (LRR K, L) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) Marl (F10) (LRR K, L) Polyvalue Below Surface (S8) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L, F) Piedmont Floodplain Soils (F19) (MLRA 144 Mesic Spodic (TA6) (MLRA 144A, 145, 149) Sandy Gleyed Matrix (S4) Depleted Dark Surface (F7) Red Parent Material (F21) Very Shallow Dark Surface (F22) Stripped Matrix (S6) Dark Surface (S7) Alidicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: N/A	Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A11) Sandy Mucky Mineral (F1) (LRR K, L) Depleted Below Dark Surface (A11) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Stripped Matrix (S6) Dark Surface (S7) Marl (F10) (LRR K, L) Polyvalue Below Surface (S8) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L) Piedmont Floodplain Soils (F19) (MLRA Sandy Mucky Mineral (S1) Mesic Spodic (TA6) (MLRA 144A, 145, 145, 145, 145, 145) Redox Dark Surface (F7) Red Parent Material (F21) Very Shallow Dark Surface (F22) Stripped Matrix (S6) Dark Surface (S7) All (F10) (LRR K, L) Other (Explain in Remarks) Polyvalue Below Surface (S8) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Polyvalue Below Surface (S9) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Polyvalue Below Surface (S9) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Polyvalue Below Surface (S9) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Polyvalue Below Surface (S9) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Piedmont Floodplain Soils (F19) (MLRA 144A, 145, 145, 145, 145, 145, 145, 145, 145
Stratified Layers (A5) Loamy Mucky Mineral (F1) (LRR K, L) Depleted Below Dark Surface (A11) Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L, F1) Thick Dark Surface (A12) Depleted Matrix (F3) Piedmont Floodplain Soils (F19) (MLRA 145, 149) Sandy Mucky Mineral (S1) Redox Dark Surface (F6) Sandy Gleyed Matrix (S4) Depleted Dark Surface (F7) Red Parent Material (F21) Sandy Redox (S5) Redox Depressions (F8) Very Shallow Dark Surface (F22) Stripped Matrix (S6) Dark Surface (S7) And (F10) (LRR K, L) Other (Explain in Remarks) Piedmont Floodplain Soils (F19) (MLRA 144A, 145, 149) Mesic Spodic (TA6) (MLRA 144A, 145, 149) Red Parent Material (F21) Very Shallow Dark Surface (F22) Other (Explain in Remarks) Piedmont Floodplain Soils (F19) (MLRA 144A, 145, 149) Mesic Spodic (TA6) (MLRA 144A, 145, 149) Red Parent Material (F21) Very Shallow Dark Surface (F22) Other (Explain in Remarks) Piedmont Floodplain Soils (F19) (MLRA 144A, 145, 149) Red Parent Material (F21) Very Shallow Dark Surface (F22) Other (Explain in Remarks) Piedmont Floodplain Soils (F19) (MLRA 144A, 145, 149) Red Parent Material (F21) Very Shallow Dark Surface (F22) Other (Explain in Remarks) Piedmont Floodplain Soils (F19) (MLRA 144A, 145, 149) Piedmont Floodplain Soils (F19) (MLRA 144A, 145, 149) Red Parent Material (F21) Very Shallow Dark Surface (F22) Other (Explain in Remarks)	Stratified Layers (A5) Loamy Mucky Mineral (F1) (LRR K, L) Depleted Below Dark Surface (A11) Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L) Thick Dark Surface (A12) Depleted Matrix (F3) Piedmont Floodplain Soils (F19) (MLRA Sandy Mucky Mineral (S1) Redox Dark Surface (F6) Mesic Spodic (TA6) (MLRA 144A, 145, 1 Sandy Gleyed Matrix (S4) Depleted Dark Surface (F7) Red Parent Material (F21) Sandy Redox (S5) Redox Depressions (F8) Very Shallow Dark Surface (F22) Stripped Matrix (S6) Marl (F10) (LRR K, L) Other (Explain in Remarks) Plindicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed):
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Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) Marl (F10) (LRR K, L) Dark Surface (S7) Piedmont Floodplain Soils (F19) (MLRA 144 Mesic Spodic (TA6) (MLRA 144A, 145, 149) Mesic Spodic (TA6)	Thick Dark Surface (A12) Depleted Matrix (F3) Piedmont Floodplain Soils (F19) (MLRA Sandy Mucky Mineral (S1) Redox Dark Surface (F6) Sandy Gleyed Matrix (S4) Depleted Dark Surface (F7) Red Parent Material (F21) Very Shallow Dark Surface (F22) Stripped Matrix (S6) Dark Surface (S7) Marl (F10) (LRR K, L) Other (Explain in Remarks) Piedmont Floodplain Soils (F19) (MLRA Mesic Spodic (TA6) (MLRA 144A, 145, 145, 145) Red Parent Material (F21) Very Shallow Dark Surface (F22) Other (Explain in Remarks) Piedmont Floodplain Soils (F19) (MLRA Mesic Spodic (TA6) (MLRA 144A, 145, 145, 145) Red Parent Material (F21) Very Shallow Dark Surface (F22) Other (Explain in Remarks) Piedmont Floodplain Soils (F19) (MLRA Mesic Spodic (TA6) (MLRA 144A, 145, 145) Red Parent Material (F21) Very Shallow Dark Surface (F22) Other (Explain in Remarks)
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Restrictive Layer (if observed): Type: N/A	Restrictive Layer (if observed):
Type: N/A	
· -	
Tryunc don Present: 165 No X	
Remarks:	

Project/Site: Marcy Nanocenter Parkway Mixed-Use Master Plan	City/County: Oneida County Sampling Date: 11/05/2020
Applicant/Owner: Mohawk Valley EDGE	State: NY Sampling Point: 002-1W
Investigator(s): Rachael Miller, Courtney Scoles, and Samuel Gordon	Section, Township, Range: Town of Marcy
-	relief (concave, convex, none): concave Slope %: 0-5
Subregion (LRR or MLRA): LRR R, MLRA 144A Lat: 43.129662	Long: -75.2439 Datum: WGS84
Soil Map Unit Name: Udorthents, smooth	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 Hydrology significantly disturl	
Are Vegetation, SoilX_, or Hydrology naturally problems	
SUMMARY OF FINDINGS – Attach site map showing sam	
Hydrophytic Vegetation Present? Yes X No	Is the Sampled Area
Hydric Soil Present? Yes No X	within a Wetland? Yes X No
Wetland Hydrology Present? Yes X No	If yes, optional Wetland Site ID: 002
Remarks: (Explain alternative procedures here or in a separate report.) Rock restriction prevented soils from being sampled. Open water wetland	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
X Surface Water (A1) Water-Stained Leaves (E	B9) Drainage Patterns (B10)
X High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)
Saturation (A3) — Marl Deposits (B15)	Dry-Season Water Table (C2)
Water Marks (B1) Hydrogen Sulfide Odor (
Sediment Deposits (B2) Oxidized Rhizospheres of	
Drift Deposits (B3) Presence of Reduced Iro	
Algal Mat or Crust (B4) Recent Iron Reduction ir	
Iron Deposits (B5) — Thin Muck Surface (C7)	
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remark	
X Sparsely Vegetated Concave Surface (B8)	X FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes X No Depth (inches):	
Water Table Present? Yes X No Depth (inches):	: <u>0.1</u>
Saturation Present? Yes X No Depth (inches):	: 0.1 Wetland Hydrology Present? Yes X No
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	evious inspections), if available:
Remarks:	

VEGETATION – Use scientific names of plants.

Sampling Point: 002-1W

<u>Tree Stratum</u> (Plot size: <u>30-foot radius</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
 Salix sp. 	10	Yes	FAC	Number of Dominant Species That Are OBL, FACW, or FAC:(A)
3. 4.				Total Number of Dominant Species Across All Strata: 2 (B)
5.6.		·		Percent of Dominant Species That Are OBL, FACW, or FAC:100.0%(A/B)
7				Prevalence Index worksheet:
	10	=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15-foot radius)				OBL species 0 x 1 = 0
1.				FACW species 80 x 2 = 160
2.				FAC species 10 x 3 = 30
3.				FACU species 0 x 4 = 0
				UPL species 0 x 5 = 0
				Column Totals: 90 (A) 190 (B)
				Prevalence Index = B/A = 2.11
7				Hydrophytic Vegetation Indicators:
7.		=Total Cover		
W 1 0 4 4 (D) 4 5 5 5 4 1 1 1		- Fotal Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5-foot radius)		.,	=.0	X 2 - Dominance Test is >50%
1. Phragmites australis	80	Yes	FACW	X 3 - Prevalence Index is ≤3.0¹
2. 3.		·		4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
4.				Problematic Hydrophytic Vegetation ¹ (Explain)
5.				¹ Indicators of hydric soil and wetland hydrology must
6.				be present, unless disturbed or problematic.
7.				Definitions of Vegetation Strata:
8				
9.				Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
10.				
11.				Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
12.				, , ,
	80	=Total Cover		Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size: 30-foot radius) 1.				Woody vines – All woody vines greater than 3.28 ft in height.
2.				
2				Hydrophytic
4				Vegetation Present? Yes X No
4.		=Total Cover		Tresent: Tes_XNo
Remarks: (Include photo numbers here or on a separ	ale SNEEL.)			

SOIL Sampling Point 002-1W

	•	o the dep				tor or co	onfirm the absence of in	ndicators.)
Depth	Matrix			x Featur		. 2	- .	Б
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
			-					
			_					
			-					
¹Type: C=Co	ncentration, D=Deple	etion RM=	Reduced Matrix N	/S=Mas	ked Sand	Grains	² Location: PL =	Pore Lining, M=Matrix.
Hydric Soil I								Problematic Hydric Soils ³ :
Histosol			Polyvalue Belo	w Surfa	ce (S8) (I	RR R		(A10) (LRR K, L, MLRA 149B)
	ipedon (A2)	_	MLRA 149B		cc (00) (L	-1414 14,		rie Redox (A16) (LRR K, L, R)
				•	/I DD D	MI DA 1		
Black His		-	Thin Dark Surf		-			y Peat or Peat (S3) (LRR K, L, R)
	Sulfide (A4)	-	High Chroma S					Below Surface (S8) (LRR K, L)
	Layers (A5)		Loamy Mucky			₹ K, L)		Surface (S9) (LRR K, L)
	Below Dark Surface	(A11)	Loamy Gleyed		F2)			inese Masses (F12) (LRR K, L, R)
	rk Surface (A12)	_	Depleted Matri					Floodplain Soils (F19) (MLRA 149B)
	ucky Mineral (S1)	_	Redox Dark Su					dic (TA6) (MLRA 144A, 145, 149B)
Sandy G	leyed Matrix (S4)	_	Depleted Dark	Surface	(F7)			: Material (F21)
Sandy Re	edox (S5)	_	Redox Depress	sions (F	8)		Very Shallo	ow Dark Surface (F22)
Stripped	Matrix (S6)	_	Marl (F10) (LR	RK, L)			Other (Expl	ain in Remarks)
Dark Sur	face (S7)							
³ Indicators of	hydrophytic vegetation	on and we	tland hydrology mเ	ust be pr	esent, un	less dist	urbed or problematic.	
Restrictive L	ayer (if observed):							
Type:	Rock	<						
Depth (in	ches):	0					Hydric Soil Present?	Yes No
Remarks:	,							
	n is revised from Nor	thcentral a	and Northeast Red	ional Su	nnlement	Version	2.0 to include the NRCS	Field Indicators of Hydric Soils,
	2015 Errata. (http://w							Tiola maleatore of Tryane cone,
			3				-r- <u>-</u>	

Project/Site: Marcy Nanocenter Parkway Mixed-Use Master Plan	City/County: Oneida County Sampling Date: 11/05/2020
Applicant/Owner: Mohawk Valley EDGE	State: NY Sampling Point: 003-1U
Investigator(s): Rachael Miller, Courtney Scoles, and Samuel Gordon	Section, Township, Range: Town of Marcy
	relief (concave, convex, none): Flat Slope %: 0-5
Subregion (LRR or MLRA): LRR R, MLRA 144A Lat: 43.131478	Long: -75.243043 Datum: WGS84
Soil Map Unit Name: Alton gravelly loam	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 Hydrology significantly disturb	
Are Vegetation, Soil, or Hydrology naturally problema	
SUMMARY OF FINDINGS – Attach site map showing sam	
Hydrophytic Vegetation Present? Yes No X	Is the Sampled Area
Hydric Soil Present? Yes No X	within a Wetland? Yes No X
Wetland Hydrology Present? Yes No X	If yes, optional Wetland Site ID:
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) Water-Stained Leaves (E	
High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)
Saturation (A3) Marl Deposits (B15)	Dry-Season Water Table (C2)
Water Marks (B1) Hydrogen Sulfide Odor (· · · · · · · · · · · · · · · · · · ·
Sediment Deposits (B2) Oxidized Rhizospheres of Program and Progr	
Drift Deposits (B3) Presence of Reduced Iro	
Algal Mat or Crust (B4) Recent Iron Reduction in This Mark Surface (O7)	· · · · · · · · · · · · · · · · · · ·
Iron Deposits (B5) Thin Muck Surface (C7)	
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remark	<u> </u>
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral 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 Hydrology Present? Yes No _X
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	vious inspections), if available:
Remarks:	

VEGETATION – Use scientific names of plants. Sampling Point: 003-1U Absolute Dominant Indicator Tree Stratum (Plot size: 30-foot radius) % Cover Species? Status **Dominance Test worksheet:** 1. **Number of Dominant Species** 2. That Are OBL, FACW, or FAC: 0 (A) 3. Total Number of Dominant 4. Species Across All Strata: 1 (B) 5. Percent of Dominant Species 6. That Are OBL, FACW, or FAC: 0.0% (A/B) Prevalence Index worksheet: Multiply by: =Total Cover Total % Cover of: Sapling/Shrub Stratum (Plot size: 15-foot radius) OBL species x 1 = **FACW** species 0 x 2 = 0 0 2. FAC species x3 =0 90 3. FACU species x 4 = 360 4. UPL species 0 x 5 = 5. Column Totals: 90 Prevalence Index = B/A = 4.00 6. **Hydrophytic Vegetation Indicators:** 7. 1 - Rapid Test for Hydrophytic Vegetation =Total Cover 2 - Dominance Test is >50% Herb Stratum (Plot size: 5-foot radius) 1. Poa pratensis 90 Yes **FACU** 3 - Prevalence Index is ≤3.01 4 - Morphological Adaptations¹ (Provide supporting 2. data in Remarks or on a separate sheet) 3. 4. Problematic Hydrophytic Vegetation¹ (Explain) 5. ¹Indicators of hydric soil and wetland hydrology must 6. be present, unless disturbed or problematic. 7. **Definitions of Vegetation Strata:** 8. Tree - Woody plants 3 in. (7.6 cm) or more in 9. 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

90 =Total Cover

=Total Cover

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

Woody Vine Stratum (Plot size: 30-foot radius)

1.

2.

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

Yes ___

height.

Hydrophytic Vegetation

Present?

Woody vines - All woody vines greater than 3.28 ft in

No X

SOIL Sampling Point 003-1U

Profile Desc	ription: (Describe to	the dept	h needed to docu	ıment th	ne indica	tor or co	onfirm the absence of indicators.)
Depth	Matrix		Redo	x Feature	es		
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture Remarks
0-18	7.5YR 2.5/3	100					Sandy Sandy loam
							- <u> </u>
¹ Type: C=Co	ncentration, D=Deple	etion RM=	Reduced Matrix M	MS=Masl	ed Sand	Grains	² Location: PL=Pore Lining, M=Matrix.
Hydric Soil I		1011, 11111	toddood Matrix, IV	io ividoi	tou ouriu	Oranio.	Indicators for Problematic Hydric Soils ³ :
Histosol (Polyvalue Belo	w Surfac	ce (S8) (L	.RR R,	2 cm Muck (A10) (LRR K, L, MLRA 149B)
	ipedon (A2)	_	MLRA 149B)		` / `	,	Coast Prairie Redox (A16) (LRR K, L, R)
Black His			Thin Dark Surfa	ace (S9)	(LRR R,	MLRA 1	
Hydroger	n Sulfide (A4)		High Chroma S		-		Polyvalue Below Surface (S8) (LRR K, L)
Stratified	Layers (A5)		Loamy Mucky I	Mineral ((F1) (LRF	R K, L)	Thin Dark Surface (S9) (LRR K, L)
Depleted	Below Dark Surface	(A11)	Loamy Gleyed	Matrix (F	F2)		Iron-Manganese Masses (F12) (LRR K, L, R)
Thick Da	rk Surface (A12)	_	Depleted Matrix	x (F3)			Piedmont Floodplain Soils (F19) (MLRA 149B)
Sandy M	ucky Mineral (S1)	_	Redox Dark Su	ırface (F	6)		Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
Sandy Gl	leyed Matrix (S4)	_	Depleted Dark	Surface	(F7)		Red Parent Material (F21)
Sandy Re	edox (S5)	_	Redox Depress	ions (F8	3)		Very Shallow Dark Surface (F22)
Stripped	Matrix (S6)	_	Marl (F10) (LR l	RK, L)			Other (Explain in Remarks)
Dark Sur	face (S7)						
3							
		on and wet	land hydrology mu	ist be pro	esent, un	less dist	turbed or problematic. T
	ayer (if observed):						
Type:	N/A						
Depth (in	ches):						Hydric Soil Present? Yes No _X
Remarks:							
							n 2.0 to include the NRCS Field Indicators of Hydric Soils,
version 7.0, 2	2015 Errata. (http://w	ww.nics.us	da.gov/internet/F3	SE_DOC	OWENT	5/IIICS 14.	12PZ_051293.docx)

Project/Site: Marcy Nanocenter Parkway Mixed-Use Master Plan	City/County: Oneida County Sampling Date: 11/05/2020
Applicant/Owner: Mohawk Valley EDGE	State: NY Sampling Point: 003-1U
Investigator(s): Rachael Miller, Courtney Scoles, and Samuel Gordon	Section, Township, Range: Town of Marcy
	relief (concave, convex, none): Flat Slope %: 0-5
Subregion (LRR or MLRA): LRR R, MLRA 144A Lat: 43.131481	Long: -75.242856 Datum: WGS84
Soil Map Unit Name: Udorthents, smooth	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.)
, c	· ·
Are Vegetation, Soil, or Hydrologysignificantly disturb	
Are Vegetation, Soil, or Hydrology naturally problems SUMMARY OF FINDINGS – Attach site map showing sam	
Lhidranhi tia Vagatatian Dracent2 Yes V. No.	In the Complet Area
Hydrophytic Vegetation Present? Yes X No Hydric Soil Present? Yes X No	Is the Sampled Area within a Wetland? Yes X No
Wetland Hydrology Present? Yes X No	If yes, optional Wetland Site ID: 003
Remarks: (Explain alternative procedures here or in a separate report.)	in you, optional Worland Cito IB.
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) Water-Stained Leaves (E	39) X Drainage Patterns (B10)
High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)
Saturation (A3) — Marl Deposits (B15)	Dry-Season Water Table (C2)
Water Marks (B1) Hydrogen Sulfide Odor (
Sediment Deposits (B2) Oxidized Rhizospheres of the control of th	
Presence of Reduced Iro	
Algal Mat or Crust (B4) Recent Iron Reduction in This Mark Surface (O7)	· · · · · · · · · · · · · · · · · · ·
Iron Deposits (B5) Thin Muck Surface (C7) Other (Cyrlein in Deposit	? Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remark Sparsely Vegetated Concave Surface (B8)	ks) Microtopographic Relief (D4) X FAC-Neutral Test (D5)
	A FAC-Neutral 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):	
Saturation Present? Yes No _X Depth (inches): (includes capillary fringe)	Wetland Hydrology Present? Yes X No
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	
Bosonibe Noosided Bata (encam gauge, monitoring won, dental priotes, pre	vious inspessions), il avallable.
Remarks:	

VEGETATION – Use scientific names of plants.

Absolute	Dominant	Indicator	
% Cover	Species?	Status	Dominance Test worksheet:
15	Yes	FACW	Number of Dominant Species
10	Yes	FAC	That Are OBL, FACW, or FAC:4 (A)
	· ——		Total Number of Dominant
	· ——		Species Across All Strata: 5 (B)
	· ——		Percent of Dominant Species
			That Are OBL, FACW, or FAC: 80.0% (A/E
	· ——		Prevalence Index worksheet:
25	=Total Cover		Total % Cover of: Multiply by:
			OBL species 20 x 1 = 20
	·		FACW species 15 x 2 = 30
			FAC species40 x 3 =120
			FACU species 50 x 4 = 200
			UPL species0 x 5 =0
			Column Totals: 125 (A) 370 (F
			Prevalence Index = B/A = 2.96
			Hydrophytic Vegetation Indicators:
	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
			X 2 - Dominance Test is >50%
20	Yes	OBL	X 3 - Prevalence Index is ≤3.0 ¹
50	Yes	FACU	4 - Morphological Adaptations ¹ (Provide supporti
30	Yes	FAC	data in Remarks or on a separate sheet)
			Problematic Hydrophytic Vegetation ¹ (Explain)
			¹ Indicators of hydric soil and wetland hydrology must
			be present, unless disturbed or problematic.
			Definitions of Vegetation Strata:
			Tree – Woody plants 3 in. (7.6 cm) or more in
			diameter at breast height (DBH), regardless of heigh
			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, regardles
100	=Total Cover		of size, and woody plants less than 3.28 ft tall.
			Woody vines – All woody vines greater than 3.28 ft
			height.
			Librarius un les atilies
			Hydrophytic
			Vegetation Present? Yes X No
	% Cover 15 10 25 25 30 100	% Cover Species? 15 Yes 10 Yes	% Cover Species? Status 15 Yes FAC 10 Yes FAC

SOIL Sampling Point 003-1U

Depth Matrix Redox Features New York
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Type: NIA Depleted Matrix (A10)
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Hydric Soil Indicators: Histosol (A1) Histosol (A2) Histosol (A2) Histosol (A3) Histosol (A2) Histosol (A2) Histosol (A2) Histosol (A3) Histosol (A3) Histosol (A3) Histosol (A3) Histosol (A3) Histosol (A1) High Chroma Sands (S11) (LRR K, L) Depleted Below Dark Surface (A3) Loamy Mucky Mineral (F1) (LRR K, L) Thick Dark Surface (A11) Depleted Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyd Matrix (S4) Sandy Gleyd Matrix (S4) Sandy Gleyd Matrix (S4) Sandy Redox (S5) Redox Dark Surface (F2) Stripped Matrix (S6) Dark Surface (S7) Marl (F10) (LRR K, L) Dork Surface (T2) Dark Surface (T2) Dark Surface (T2) Marl (F10) (LRR K, L) Dark Surface (T2) Dark Surface (T2) Dark Surface (T2) Marl (F10) (LRR K, L) Depleted Dark Surface (T2) Dark Surface (T2) Dark Surface (T2) Marl (F10) (LRR K, L) Depleted Dark Surface (T2) Dark Surface (T2) Dark Surface (T2) Marl (F10) (LRR K, L) Depleted Dark Surface (T2) Dark Surface (T3) Marl (F10) (LRR K, L) Depleted Dark Surface (T2) Dark Surface (T
Hydric Soil Indicators: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, Histic Epipedon (A2) MLRA 149B) Polyvalue Below Surface (S8) (LRR R, Histic Epipedon (A2) MLRA 149B) Polyvalue Below Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) Hydrogen Sulfide (A4) High Chroma Sands (S11) (LRR K, L) Stratified Layers (A5) Loamy Mucky Mineral (F1) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Depleted Below Dark Surface (A11) Loamy Gleyed Matrix (F2) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Redox Depressions (F8) Stripped Matrix (S6) Dark Surface (S7) Pindicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: N/A Depth (inches): 6 Hydric Soil Present? Yes X No Remarks: This data form is revised from Northcentral and Northeast Regional Supplement Version 2.0 to include the NRCS Field Indicators of Hydric Soils,
Hydric Soil Indicators: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, Histic Epipedon (A2) MLRA 149B) Polyvalue Below Surface (S8) (LRR R, Histic Epipedon (A2) MLRA 149B) Polyvalue Below Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) Hydrogen Sulfide (A4) High Chroma Sands (S11) (LRR K, L) Stratified Layers (A5) Loamy Mucky Mineral (F1) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Depleted Below Dark Surface (A11) Loamy Gleyed Matrix (F2) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Redox Depressions (F8) Stripped Matrix (S6) Dark Surface (S7) Pindicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: N/A Depth (inches): 6 Hydric Soil Present? Yes X No Remarks: This data form is revised from Northcentral and Northeast Regional Supplement Version 2.0 to include the NRCS Field Indicators of Hydric Soils,
Hydric Soil Indicators: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, Histic Epipedon (A2) MLRA 149B) Polyvalue Below Surface (S8) (LRR R, Histic Epipedon (A2) MLRA 149B) Polyvalue Below Surface (S9) (LRR R, Histic Epipedon (A2) MLRA 149B) Polyvalue Below Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) Hydrogen Sulfide (A4) High Chroma Sands (S11) (LRR K, L) Stratified Layers (A5) Loamy Mucky Mineral (F1) (LRR K, L) Depleted Below Dark Surface (S9) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Depleted Matrix (F2) Sandy Mucky Mineral (S1) Redox Dark Surface (F6) Sandy Gleyed Matrix (S4) Depleted Dark Surface (F7) Red Parent Material (F21) X Sandy Redox (S5) Redox Depressions (F8) Very Shallow Dark Surface (F22) Stripped Matrix (S6) Marl (F10) (LRR K, L) Polyvalue Below Surface (F22) Other (Explain in Remarks) Promarks: This data form is revised from Northcentral and Northeast Regional Supplement Version 2.0 to include the NRCS Field Indicators of Hydric Soils,
Hydric Soil Indicators: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, Histic Epipedon (A2) MLRA 149B) Polyvalue Below Surface (S8) (LRR R, Histic Epipedon (A2) MLRA 149B) Polyvalue Below Surface (S9) (LRR R, Histic Epipedon (A2) MLRA 149B) Polyvalue Below Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) Hydrogen Sulfide (A4) High Chroma Sands (S11) (LRR K, L) Stratified Layers (A5) Loamy Mucky Mineral (F1) (LRR K, L) Depleted Below Dark Surface (S9) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Depleted Matrix (F2) Sandy Mucky Mineral (S1) Redox Dark Surface (F6) Sandy Gleyed Matrix (S4) Depleted Dark Surface (F7) Red Parent Material (F21) X Sandy Redox (S5) Redox Depressions (F8) Very Shallow Dark Surface (F22) Stripped Matrix (S6) Marl (F10) (LRR K, L) Polyvalue Below Surface (F22) Other (Explain in Remarks) Promarks: This data form is revised from Northcentral and Northeast Regional Supplement Version 2.0 to include the NRCS Field Indicators of Hydric Soils,
Hydric Soil Indicators: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, Histic Epipedon (A2) MLRA 149B) Polyvalue Below Surface (S8) (LRR R, Histic Epipedon (A2) MLRA 149B) Polyvalue Below Surface (S9) (LRR R, Histic Epipedon (A2) MLRA 149B) Polyvalue Below Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) Hydrogen Sulfide (A4) High Chroma Sands (S11) (LRR K, L) Stratified Layers (A5) Loamy Mucky Mineral (F1) (LRR K, L) Depleted Below Dark Surface (S9) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Depleted Matrix (F2) Sandy Mucky Mineral (S1) Redox Dark Surface (F6) Sandy Gleyed Matrix (S4) Depleted Dark Surface (F7) Red Parent Material (F21) X Sandy Redox (S5) Redox Depressions (F8) Very Shallow Dark Surface (F22) Stripped Matrix (S6) Marl (F10) (LRR K, L) Polyvalue Below Surface (F22) Other (Explain in Remarks) Promarks: This data form is revised from Northcentral and Northeast Regional Supplement Version 2.0 to include the NRCS Field Indicators of Hydric Soils,
Hydric Soil Indicators: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, Histic Epipedon (A2) MLRA 149B) Polyvalue Below Surface (S8) (LRR R, Histic Epipedon (A2) MLRA 149B) Polyvalue Below Surface (S9) (LRR R, Histic Epipedon (A2) MLRA 149B) Polyvalue Below Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) Hydrogen Sulfide (A4) High Chroma Sands (S11) (LRR K, L) Stratified Layers (A5) Loamy Mucky Mineral (F1) (LRR K, L) Depleted Below Dark Surface (S9) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Depleted Matrix (F2) Sandy Mucky Mineral (S1) Redox Dark Surface (F6) Sandy Gleyed Matrix (S4) Depleted Dark Surface (F7) Red Parent Material (F21) X Sandy Redox (S5) Redox Depressions (F8) Very Shallow Dark Surface (F22) Stripped Matrix (S6) Marl (F10) (LRR K, L) Polyvalue Below Surface (F22) Other (Explain in Remarks) Promarks: This data form is revised from Northcentral and Northeast Regional Supplement Version 2.0 to include the NRCS Field Indicators of Hydric Soils,
Hydric Soil Indicators: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, Histic Epipedon (A2) MLRA 149B) Polyvalue Below Surface (S8) (LRR R, Histic Epipedon (A2) MLRA 149B) Polyvalue Below Surface (S9) (LRR R, Histic Epipedon (A2) MLRA 149B) Polyvalue Below Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) Hydrogen Sulfide (A4) High Chroma Sands (S11) (LRR K, L) Stratified Layers (A5) Loamy Mucky Mineral (F1) (LRR K, L) Depleted Below Dark Surface (S9) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Depleted Matrix (F2) Sandy Mucky Mineral (S1) Redox Dark Surface (F6) Sandy Gleyed Matrix (S4) Depleted Dark Surface (F7) Red Parent Material (F21) X Sandy Redox (S5) Redox Depressions (F8) Very Shallow Dark Surface (F22) Stripped Matrix (S6) Marl (F10) (LRR K, L) Polyvalue Below Surface (F22) Other (Explain in Remarks) Promarks: This data form is revised from Northcentral and Northeast Regional Supplement Version 2.0 to include the NRCS Field Indicators of Hydric Soils,
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Histic Epipedon (A2) Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) Stratified Layers (A5) Depleted Below Dark Surface (A11) Sandy Mucky Mineral (F1) (LRR K, L) Thick Dark Surface (A12) Depleted Matrix (F3) Sandy Mucky Mineral (S1) Sandy Redox (S5) Redox Depressions (F8) Dark Surface (S7) MERA 149B) Thin Dark Surface (A12) Depleted Matrix (F3) Sandy Redox (S5) Redox Depressions (F8) Dark Surface (F7) Redox Depressions (F8) Dark Surface (F7) Thick Dark Surface (F7) Thin Dark Surface (F8) Thin Dark Surface (F1) Thin Dark Surface (F8) Thin Dark Surface (F1) Thin Dark Surface (F1) Thin Dark Surface (F8) Thin Dark Surface (F1) Thin Dark Surface (F8) Thin Dark Surface (F8) Thin Dark Surface (F1) Thin Dark Surface (F8) Thin Dark Surface (F8) Thin Dark Surface (F1) Thin Dark Surface (F8) Thi
Black Histic (A3)
Hydrogen Sulfide (A4)
Stratified Layers (A5)
Depleted Below Dark Surface (A11) Loamy Gleyed Matrix (F2) Thick Dark Surface (A12) Depleted Matrix (F3) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Depleted Dark Surface (F6) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) Marl (F10) (LRR K, L) Other (Explain in Remarks) Pledmont Floodplain Soils (F19) (MLRA 149B) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Mesic Spodic (TA6) (MLRA
Thick Dark Surface (A12) Depleted Matrix (F3) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Mucky Mineral (S1) Redox Dark Surface (F6) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Gleyed Matrix (S4) Depleted Dark Surface (F7) Red Parent Material (F21) Very Shallow Dark Surface (F22) Stripped Matrix (S6) Marl (F10) (LRR K, L) Other (Explain in Remarks) Pindicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: N/A Depth (inches): 6 Hydric Soil Present? Yes X No Remarks: This data form is revised from Northcentral and Northeast Regional Supplement Version 2.0 to include the NRCS Field Indicators of Hydric Soils,
Sandy Mucky Mineral (S1) Redox Dark Surface (F6) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Gleyed Matrix (S4) Depleted Dark Surface (F7) Red Parent Material (F21) X Sandy Redox (S5) Redox Depressions (F8) Very Shallow Dark Surface (F22) Stripped Matrix (S6) Marl (F10) (LRR K, L) Other (Explain in Remarks) Dark Surface (S7) Clindicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: N/A Depth (inches): 6 Hydric Soil Present? Yes X No Remarks: This data form is revised from Northcentral and Northeast Regional Supplement Version 2.0 to include the NRCS Field Indicators of Hydric Soils,
Sandy Gleyed Matrix (S4)
X Sandy Redox (S5) Redox Depressions (F8) Very Shallow Dark Surface (F22) Stripped Matrix (S6) Marl (F10) (LRR K, L) Other (Explain in Remarks) Plandicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: N/A Depth (inches): 6 Hydric Soil Present? Yes X No Remarks: This data form is revised from Northcentral and Northeast Regional Supplement Version 2.0 to include the NRCS Field Indicators of Hydric Soils,
Stripped Matrix (S6)
Dark Surface (S7) Pindicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: N/A Depth (inches): 6 Hydric Soil Present? Yes X No Remarks: This data form is revised from Northcentral and Northeast Regional Supplement Version 2.0 to include the NRCS Field Indicators of Hydric Soils,
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Restrictive Layer (if observed): Type: N/A Depth (inches): 6
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Depth (inches): 6 Hydric Soil Present? Yes X No
Remarks: This data form is revised from Northcentral and Northeast Regional Supplement Version 2.0 to include the NRCS Field Indicators of Hydric Soils,
This data form is revised from Northcentral and Northeast Regional Supplement Version 2.0 to include the NRCS Field Indicators of Hydric Soils,

Project/Site:	20139 M	larcy Nanocenter	City	/County:	Oneida Cou	unty	Sampling Date:	04/27/2021
Applicant/Owner:		•	MVEDGE		Sta	ate: New York	Sampling Point:	WL004-1U
Investigator(s):		JK, KM	Sec	tion, Township, Ra	inge:		Marcy	
Landform (hillslope, terra	ace etc).			concave, convex,		Convex	Slope	(%): 3-8
Subregion (LRR or MLR	· · · · —		Lat:	43.13074783	Long:	-75.2389823		n: WGS 1984
Soil Map Unit Name:		IXIX L WILLYA 172	Otego Loam	43.13074703	Long	NWI classification		1
Are climatic / hydrologic		a aita tunigal for thi		V No.	/lf no	explain in Remark		
, ,		71	,		` ′	•	,	/ No
			significantly dist			cumstances" prese		NO
			naturally proble			nin any answers in	•	
SUMMARY OF FIN	DINGS - Att	ach site map s	howing sampling	g point locati	ons, transec	ts, important	reatures, etc.	
Hydrophytic Vegetatio	n Present?	Yes	No X	Is the Sam	pled Area			
Hydric Soil Present?		Yes	No X	within a W	etland?	Yes	No X	
Wetland Hydrology Pr	resent?	Yes	No X	If yes, option	nal Wetland Site			_ "
Remarks: (Explain alte	ernative procedu	ures here or in a se	parate report.)					
HYDROLOGY								
Wetland Hydrology I								
Primary Indicators (mi	inimum of one re	equired; check all th	nat apply)				tors (minimum of t	wo required)
Surface Water (A	\1)	_	Water-Stained Lea	` '		Surface Soil	Cracks (B6)	
High Water Table	(A2) €	_	_ Aquatic Fauna (B1	3)		Drainage Pa	itterns (B10)	
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)		Oxidized Rhizosph	eres on Living Ro	ots (C3)	Crayfish Bu	rows (C8)	
Drift Deposits (B3	3)		Presence of Reduc	ced Iron (C4)		Saturation V	isible on Aerial Ima	agery (C9)
Algal Mat or Crus	st (B4)		Recent Iron Reduc	tion in Tilled Soils	(C6)		Stressed Plants (D1	
Iron Deposits (B5			Thin Muck Surface		. ,	Geomorphic	Position (D2)	•
Inundation Visible	•	 uerv (B7)	Other (Explain in R			Shallow Aqu		
Sparsely Vegetat	-			,			aphic Relief (D4)	
						FAC-Neutra		
Field Observations:			Depth (inches):					
Field Observations: Surface Water Presen	ıt? Yes	s No X						
		· — · —	Depth (inches):					
Surface Water Presen		s NoX	_ ' ' '		Wetland Hydi	rology Present?	Yes	No X
Surface Water Present Water Table Present? Saturation Present?	Yes Yes	s NoX	_ ' ' '		Wetland Hydi	rology Present?	Yes	No X
Surface Water Present Water Table Present?	Yes Yes	s NoX	_ ' ' '		Wetland Hydi	rology Present?	Yes	No <u>X</u>
Surface Water Present Water Table Present? Saturation Present?	Yes Yes age)	No X No X No X	Depth (inches):	us inspections), if		rology Present?	Yes	No X
Surface Water Present Water Table Present? Saturation Present? (includes capillary fring	Yes Yes age)	No X No X No X	Depth (inches):	us inspections), if		rology Present?	Yes	No X
Surface Water Present Water Table Present? Saturation Present? (includes capillary fring	Yes Yes age)	No X No X No X	Depth (inches):	us inspections), if		rology Present?	Yes	No <u>X</u>
Surface Water Present Water Table Present? Saturation Present? (includes capillary fring	Yes Yes age)	No X No X No X	Depth (inches):	us inspections), if		rology Present?	Yes	No <u>X</u>
Surface Water Present Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Da	Yes Yes age)	No X No X No X	Depth (inches):	us inspections), if		rology Present?	Yes	No <u>X</u>
Surface Water Present Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Da	Yes Yes age)	No X No X No X	Depth (inches):	us inspections), if		rology Present?	Yes	No <u>X</u>
Surface Water Present Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Da	Yes Yes age)	No X No X No X	Depth (inches):	us inspections), if		rology Present?	Yes	No X
Surface Water Present Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Da	Yes Yes age)	No X No X No X	Depth (inches):	us inspections), if		rology Present?	Yes	No X
Surface Water Present Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Da	Yes Yes age)	No X No X No X	Depth (inches):	us inspections), if		rology Present?	Yes	No X
Surface Water Present Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Da	Yes Yes nge)	No X No X No X	Depth (inches):	us inspections), if		rology Present?	Yes	No X
Surface Water Present Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Da	Yes Yes nge)	No X No X No X	Depth (inches):	us inspections), if		rology Present?	Yes	No X
Surface Water Present Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Da	Yes Yes nge)	No X No X No X	Depth (inches):	us inspections), if		rology Present?	Yes	No X
Surface Water Present Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Da	Yes Yes nge)	No X No X No X	Depth (inches):	us inspections), if		rology Present?	Yes	No X
Surface Water Present Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Da	Yes Yes nge)	No X No X No X	Depth (inches):	us inspections), if		rology Present?	Yes	No X
Surface Water Present Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Da	Yes Yes nge)	No X No X No X	Depth (inches):	us inspections), if		rology Present?	Yes	No X
Surface Water Present Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Da	Yes Yes nge)	No X No X No X	Depth (inches):	us inspections), if		rology Present?	Yes	No X
Surface Water Present Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Da	Yes Yes nge)	No X No X No X	Depth (inches):	us inspections), if		rology Present?	Yes	No X
Surface Water Present Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Da	Yes Yes nge)	No X No X No X	Depth (inches):	us inspections), if		rology Present?	Yes	No X
Surface Water Present Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Da	Yes Yes nge)	No X No X No X	Depth (inches):	us inspections), if		rology Present?	Yes	No X

SOIL Sampling Point: WL004-1U

Depth	Matrix		Redox	k Features							
inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture		Remar	ks	
0-11	7.5YR 3/2	100					Silt loam				
11-18	10YR 3/3	80	10YR 5/8	20	C	M	Clay loam				
				_							
					· —— -						
ype: C=Con	 centration, D=Depletion	n, RM=Redu	 iced Matrix, MS=Masl	ked Sand Gr	ains.		²Loca	tion: PL=P	ore Lining, N	Л=Matrix.	
	<u> </u>										
dric Soil In Histosol (Polyvalue Belov	v Surface (S	0\ /I DD D I	MI DA 140			ematic Hyd	, MLRA 149B	`
_	ipedon (A2)		Thin Dark Surfa	•	,		· —	•		, IVILKA 1496 (LRR K, L, R)	•
Black His			Loamy Mucky M			1430)				3) (LRR K, L, K)	
_	n Sulfide (A4)		Loamy Gleyed N		(LIXIX IX, L)				7) (LRR K,		13,
	Layers (A5)		Depleted Matrix							-, 3) (LRR K, L)	
_	Below Dark Surface (A	A11)	Redox Dark Sur	. ,					e (S9) (LR	, ,	
	rk Surface (A12)	,	Depleted Dark S							12) (LRR K, I	L. R
	ucky Mineral (S1)		Redox Depressi					-		19) (MLRA 1	
_	leyed Matrix (S4)			,					-	. 144A, 145, 1	
_	edox (S5)							Parent Mate		, ,	
	Matrix (S6)								rk Surface (TF12)	
Dark Sur	face (S7) (LRR R, ML	RA 149B)					Other	(Explain in	Remarks)		
				rocent unlo							
ndiantara of l	hydrophytic vocatation	and watland	l budrologu must bo p								
	hydrophytic vegetation	and wetland	l hydrology must be p	resent, unie:	ss disturbed	or problem	atic.				
estrictive La	hydrophytic vegetation ayer (if observed):	and wetland	I hydrology must be p	resem, unie:	ss disturbed	or problem	atic.				
estrictive La	ayer (if observed):	and wetland	I hydrology must be p	resent, unie:	ss disturbed	or problem		resent?	Yes	No	×
estrictive La	ayer (if observed):	and wetland	I hydrology must be p	resent, unie:	ss disturbed	or problem	Hydric Soil P	resent?	Yes	No	X
Type:	ayer (if observed):	and wetland	I hydrology must be p	resent, unie:	ss disturbed	or problem		resent?	Yes	No	X
Type:	ayer (if observed):	and wetland	I hydrology must be p	resent, unie:	ss disturbed	or problem		resent?	Yes	No	X
Type:	ayer (if observed):	and wetland	I hydrology must be p	esent, unies	ss disturbed	or problem		resent?	Yes	No	X
Type:	ayer (if observed):	and wetland	I hydrology must be p	esent, unies	ss disturbed	or problem		resent?	Yes	No	X
Type:	ayer (if observed):	and wetland	I hydrology must be p	esent, unies	ss disturbed	or problem		resent?	Yes	No	X
Type:	ayer (if observed):	and wetland	I hydrology must be p	esent, unies	ss disturbed	or problem		resent?	Yes	No	X
Type:	ayer (if observed):	and wetland	I hydrology must be p	esent, unies	ss disturbed	or problem		resent?	Yes	No	X
Type:	ayer (if observed):	and wetland	I hydrology must be p	esent, unies	ss disturbed	or problem		resent?	Yes	No	X
Type:	ayer (if observed):	and wetland	I hydrology must be p	esent, unies	ss disturbed	or problem		resent?	Yes	No	X
estrictive La Type: Depth (inc	ayer (if observed):	and wetland	I hydrology must be p	esent, unies	ss disturbed	or problem		resent?	Yes	No	X
Type:	ayer (if observed):	and wetland	I hydrology must be p	esent, unies	ss disturbed	or problem		resent?	Yes	No	X
Type:	ayer (if observed):	and wetland	I hydrology must be p	esent, unies	ssaisturbea	or problem		resent?	Yes	No	x
rstrictive La Type: Depth (inc	ayer (if observed):	and wetland	I hydrology must be p	esent, unies	ssaisturbea	or problem		resent?	Yes	No	x
rstrictive La Type: Depth (inc	ayer (if observed):	and wetland	I hydrology must be p	esent, unies	ssaisturbea	or problem		resent?	Yes	No	X
Type:	ayer (if observed):	and wetland	I hydrology must be p	esent, unies	ss disturbed	or problem		resent?	Yes	No	X
estrictive La Type: Depth (inc	ayer (if observed):	and wetland	I hydrology must be p	esent, unies	ss disturbed	or problem		resent?	Yes	No	x
estrictive La	ayer (if observed):	and wetland	I hydrology must be p	esent, unies	s disturbed	or problem		resent?	Yes	No	x
estrictive La Type: Depth (inc	ayer (if observed):	and wetland	hydrology must be p	esent, unies	ss disturbed	or problem		resent?	Yes	No	X
Type:	ayer (if observed):	and wetland	I hydrology must be p	esent, unies	ss disturbed	or problem		resent?	Yes	No	X
rstrictive La Type: Depth (inc	ayer (if observed):	and wetland	I hydrology must be p	esent, unies	s disturbed	or problem		resent?	Yes	No	<u>x</u>
Type:	ayer (if observed):	and wetland	I hydrology must be p	esent, unies	s disturbed	or problem		resent?	Yes	No	×
rstrictive La Type: Depth (inc	ayer (if observed):	and wetland	I hydrology must be p	esent, unies	s disturbed	or problem		resent?	Yes	No	X

Project/Site:	20139 Mar	cy Nanocente	r	City/Cou	nty:	Oneida Co	unty	Sampling Date:	04/27/2021
		-	MVEDGE				ate: New York	Sampling Point:	WL004-1W
Investigator(s):		JK, KM		Section,	Township, Rang	ge:		Marcy	
Landform (hillslope, terrace	e, etc):	Floodplain	Local r	-	ave, convex, no		Concave	Slop	e (%): 0-3
Subregion (LRR or MLRA)		R L MLRA 172			13086183	Long:	-75.239328	B5 Datu	ım: WGS 1984
Soil Map Unit Name:			Otego Loam	1			NWI classification	on: F	PFO1A
Are climatic / hydrologic co	nditions on the	site typical for	this time of year?	Yes	X No	(If no,	_ explain in Remark	(s.)	
Are Vegetation,	Soil ,	or Hydrology	significant	ly disturbed	d? Ar	e "Normal Cire	cumstances" prese	ent? Yes	X No
			naturally p				ain any answers in		
SUMMARY OF FIND		-				ns, transec	ts, important	features, etc.	
Hydrophytic Vegetation I			X No		Is the Sample		•	•	
Hydric Soil Present?			X No		within a Wet		Yes X	No	
Wetland Hydrology Pres	ent?		X No			al Wetland Site			<u> </u>
Remarks: (Explain altern	ative procedure	es here or in a	separate report.)						
HYDROLOGY									
Wetland Hydrology Ind	licators:								
Primary Indicators (minir		uired; check al	II that apply)				Secondary Indica	ators (minimum of	two required)
Surface Water (A1)		•	Water-Staine	d Leaves ((B9)			l Cracks (B6)	
High Water Table (A	42)		Aquatic Faur	na (B13)			X Drainage P	atterns (B10)	
Saturation (A3)			Marl Deposit				Moss Trim I	Lines (B16)	
Water Marks (B1)			Hydrogen Su	ılfide Odor	(C1)		Dry-Seasor	Water Table (C2))
Sediment Deposits	(B2)		Oxidized Rhi	zospheres	on Living Roots	s (C3)	Crayfish Bu		
Drift Deposits (B3)			Presence of	Reduced Ir	ron (C4)		Saturation \	/isible on Aerial In	nagery (C9)
Algal Mat or Crust ((B4)		Recent Iron I	Reduction i	in Tilled Soils (C	26)	Stunted or \$	Stressed Plants (D)1)
Iron Deposits (B5)			Thin Muck S					c Position (D2)	
Inundation Visible of	-	• • •	Other (Expla	in in Rema	rks)		Shallow Aq		
Sparsely Vegetated	Concave Surfa	ce (B8)						raphic Relief (D4)	
							FAC-Neutra	al lest (D5)	
Field Observations:									
Surface Water Present?	Yes _	No	X Depth (inch	ies):					
Water Table Present?	Yes _	No	X Depth (inch	ies):					
Saturation Present?	Yes _	No	X Depth (inch	ies):		Wetland Hyd	rology Present?	Yes X	No
(includes capillary fringe)								
Describe Recorded Data	s (stream gauge	monitoring w	ell aerial photos i	orevious in	spections) if av	ailahle.			
Booonibo recoorded Bate	r (ou ourr gaago	, monitoring w	on, donar priotoc, p	provious in	opeonono), n av	anabio.			
Remarks:									

SOIL Sampling Point: WL004-1W

	-	depth ne	eded to document th		or commi	the absen	ce of indicators)··)		
Depth	Matrix	0/		x Features	T1	12	T		Damada	
(inches)	Color (moist)	%	Color (moist)		Type ¹	Loc²	Texture		Remarks	
0-18	10YR 2/2	99	5Y 5/6	_ 1	C	<u>M</u>	Silt loam			
			-							
			-							
			•							
	·									
	·									
	·									
	·									
	·									
1T 0 0			114 (1 140 14				21 1		1111 84 84	
Type: C=Coi	ncentration, D=Depletion,	RM=Redu	iced Matrix, MS=Mas	ked Sand Gr	ains.		-Locat	ion: PL=P	ore Lining, M=Ma	trix.
Hydric Soil I	ndicators:						Indicators	for Probl	ematic Hydric So	oils³:
Histosol	(A1)		Polyvalue Belov	w Surface (S8	3) (LRR R ,	MLRA 1491	3) 2 cm M	Muck (A10) (LRR K, L, MLF	RA 149B)
X Histic Ep	pipedon (A2)		Thin Dark Surfa	ice (S9) (LR	R R, MLRA	149B)	Coast	Prairie Re	edox (A16) (LRR	K, L, R)
Black Hi	istic (A3)		Loamy Mucky N	/lineral (F1)	LRR K, L)		5 cm N	Mucky Pea	at or Peat (S3) (L	RR K, L, R)
Hydroge	en Sulfide (A4)		Loamy Gleyed I	Loamy Gleyed Matrix (F2)					7) (LRR K, L)	
Stratified	d Layers (A5)		Depleted Matrix	(F3)			Polyva	alue Below	Surface (S8) (L	RR K, L)
Depleted	d Below Dark Surface (A1	1)	Redox Dark Sur	rface (F6)			Thin D	ark Surfa	ce (S9) (LRR K,	L)
Thick Da	ark Surface (A12)		Depleted Dark S	Surface (F7)			Iron-M	langanese	Masses (F12) (LRR K, L, R)
Sandy M	Mucky Mineral (S1)		Redox Depress	ions (F8)			Piedm	ont Flood	plain Soils (F19) (MLRA 149B)
Sandy G	Gleyed Matrix (S4)						Mesic	Spodic (T	A6) (MLRA 144)	A, 145, 149B)
Sandy F	Redox (S5)						Red P	arent Mate	erial (F21)	
Stripped	d Matrix (S6)						Very S	Shallow Da	ark Surface (TF12)
Dark Su	ırface (S7) (LRR R, MLR	A 149B)					Other	(Explain ir	n Remarks)	
³ Indicators of	hydrophytic vegetation a	nd wetland	hydrology must be p	resent, unles	s disturbed	or problem	atic.			
Restrictive L	_ayer (if observed):									
Type:							Hydric Soil Pr	esent?	Yes X	No
Type: Depth (in	nches):									
Depth (in	nches):									
Depth (in Remarks:										
Depth (in Remarks:	verify soils									
Depth (in										
Depth (in										
Depth (in										
Depth (in										
Depth (in										
Depth (in										
Depth (in Remarks:										
Depth (in										
Depth (in										
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Depth (in Remarks:										
Depth (in Remarks:										

Project/Site:	20139 M	arcy Nanocenter		City/Coun	ity:	Oneida Co	unty	Sampling Date:	04/27/2021
Applicant/Owner:		•	MVEDGE	•		Sta	ate: New York	Sampling Point:	WL005-1U
Investigator(s):		JK, KM		Section, T	ownship, Ran			Marcy	
Landform (hillslope, terrace	e, etc):		Local re		ve, convex, no	-	Convex	Slope	e (%): 8-15
Subregion (LRR or MLRA)			 Lat:		3161283	Long:	-75.238890		m: WGS 1984
Soil Map Unit Name:			silt loam, occasion	onally flood	led		NWI classification	on:	-
Are climatic / hydrologic co			is time of year?	Yes X	(No	(If no,	_ explain in Remark	ss.)	
Are Vegetation,	Soil	, or Hydrology	significantl	y disturbed	? A	re "Normal Cir	cumstances" prese	ent? Yes	X No
		, or Hydrology				needed, expla	ain any answers in	Remarks.)	
SUMMARY OF FIND						ns, transec	ts, important	features, etc.	
Hydrophytic Vegetation I		Yes			Is the Samp	·	•	•	
Hydric Soil Present?			No X		within a Wet		Yes	No X	
Wetland Hydrology Pres	ent?	Yes				al Wetland Site			
Remarks: (Explain alterr	native procedu	ures here or in a se	eparate report.)						
HYDROLOGY									
Wetland Hydrology Ind	licators:								
Primary Indicators (minir		equired; check all t	hat apply)				Secondary Indica	ators (minimum of	two required)
Surface Water (A1)		•	Water-Staine	d Leaves (E	39)			l Cracks (B6)	
High Water Table (A	42)		Aquatic Faun	a (B13)			Drainage Pa	atterns (B10)	
Saturation (A3)			Marl Deposits	s (B15)			Moss Trim I	ines (B16)	
Water Marks (B1)			Hydrogen Su	lfide Odor (C1)		Dry-Season	Water Table (C2)	
Sediment Deposits	(B2)		Oxidized Rhiz	zospheres o	on Living Root	s (C3)	Crayfish Bu	rrows (C8)	
Drift Deposits (B3)		_	Presence of F	Reduced Iro	on (C4)		Saturation \	/isible on Aerial Im	agery (C9)
Algal Mat or Crust ((B4)	_	Recent Iron F	Reduction in	n Tilled Soils (0	C6)	Stunted or S	Stressed Plants (D	1)
Iron Deposits (B5)		_	Thin Muck Su					Position (D2)	
Inundation Visible of	-	- · · · -	Other (Explain	n in Remar	ks)		Shallow Aq		
Sparsely Vegetated	i Concave Sur	rface (B8)						raphic Relief (D4)	
							FAC-Neutra	I lest (D5)	
Field Observations:									
Surface Water Present?	Yes	s NoX	Depth (inch	es):					
Water Table Present?	Yes	s NoX	Depth (inch	es):					
Saturation Present?	Yes	s NoX	Depth (inche	es):		Wetland Hyd	rology Present?	Yes	No X
(includes capillary fringe)								
Describe Recorded Data	stream gaug	ne monitoring wel	l aerial photos n	revious ins	nections) if a	/ailable·			
Booonibo recoorded Bate	r (ou our gaus	go, monitoring wo	i, aonai priotos, p	7,01,000 11,0	, pootiono), n a	ranabio.			
Remarks:									

VEGETATION - Use scientific names of plants.				Sampling Point: WL005-1U
				Dominance Test worksheet:
				Number of Dominant Species
	Abaaluta	Dominant	Indicator	That Are OBL, FACW, or FAC: 2 (A)
Trans Objections (Diet sieses 20	Absolute	Dominant	Indicator	
Tree Stratum (Plot size: 30)	% Cover	Species?	Status	Total Number of Dominant
Fagus grandifolia / American beech	40	Yes	FACU	Species Across All Strata: 4 (B)
2. Acer rubrum / Red maple	20	Yes	FAC	
3.				Percent of Dominant Species
4.				That Are OBL, FACW, or FAC: 50.0 (A/B)
5				
6.				Prevalence Index worksheet:
7		T-4-1 O		Total % Cover of: Multiply by:
0 1: (0) 1 0: (7) 1 :	60	_ = Total Cov	er er	OBL species 0 x 1 = 0
Sapling/Shrub Stratum (Plot size: 15)	50		E4.011	FACW species 0 x 2 = 0
Fagus grandifolia / American beech	50	Yes	FACU	FAC species 40 x 3 = 120
2. Acer rubrum / Red maple	20	Yes	FAC	FACU species 90 x 4 = 360
3		_		UPL species 0 x 5 = 0
4.		_		Column Totals:130 (A)480 (B)
5		_		
6.		_		Prevalence Index = B/A = 3.69
7				
	70	_ = Total Cov	er er	Hydrophytic Vegetation Indicators:
Herb Stratum (Plot size: 5				1 - Rapid Test for Hydrophytic Vegetation
1.				2 - Dominance Test is >50%
2.				3 - Prevalence Index ≤3.0¹
3.				4 - Morphological Adaptations¹ (Provide supporting
4				Problematic Hydrophytic Vegetation¹ (Explain)
5				
6		_		¹Indicators of hydric soil and wetland hydrology must
7				be present, unless disturbed or problematic.
8				Definitions of Vegetation Strata
9				Definitions of Vegetation Strata
10				Tree - Woody plants 3 in. (7.6 cm) or more in diameter at
11				breast height (DBH), regardless of height.
12				Sapling/shrub - Woody plants less than 3 in. DBH and
	0	_ = Total Cov	er	greater than or equal to 3.28 ft (1 m) tall.
Woody Vine Stratum (Plot size: 30)				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				- 3 -
	0	_ = Total Cov	er	Hydrophytic
				Vegetation
				Present? Yes No X
Remarks: (Explain alternative procedures here or in a separa	te report.)			
` ' '	. ,			

SOIL Sampling Point: WL005-1U

Depth	Matrix		Redox	x Features			ce of indicators				
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture		Remar	ks	
0-5	10YR 2/2	100				<u> </u>	Loamy sand				
5-18	7.5YR 4/6	100					Sandy loam				
				-							
				-							
				-							
ype: C=Cor	ncentration, D=Depletion	n, RM=Redu	uced Matrix, MS=Mas	ked Sand Gr	ains.		²Locat	ion: PL=P	ore Lining, N	л=Matrix.	
ydric Soil II	ndicators:						Indicators	for Proble	ematic Hydi	ric Soils³·	
Histosol			Polyvalue Belov	v Surface (S	8) / DD D N	JI DA 1/0) (LRR K, L		B)
	` '										-
	pipedon (A2)		Thin Dark Surfa			1490)			dox (A16) (
_ Black His			Loamy Mucky N		(LKK K, L)				t or Peat (S		∟, K)
	n Sulfide (A4)		Loamy Gleyed I						7) (LRR K,		
	Layers (A5)	44)		Depleted Matrix (F3)					Surface (S8		L)
	Below Dark Surface (A	(11)	Redox Dark Sui						ce (S9) (LR		
	ark Surface (A12)		Depleted Dark S					-	Masses (F1		
	lucky Mineral (S1)		Redox Depress	ions (F8)					olain Soils (F		
	leyed Matrix (S4)								A6) (MLRA	144A, 145,	149B)
	edox (S5)							arent Mate			
Stripped	Matrix (S6)						Very S	Shallow Da	rk Surface (TF12)	
Dark Sur	rface (S7) (LRR R, MLI	RA 149B)					Other	(Explain ir	Remarks)		
Indicators of	hydrophytic vegetation a	and wetland	d hydrology must be p	resent unles	ss disturbed	or problem	atic				
	,					p					
) 4-i - 4i 1	(# - l 1).										
	ayer (if observed):					l l					
Туре:											
							Hydric Soil Pr	esent?	Yes	No _	Х
Type: Depth (inc							Hydric Soil Pr	resent?	Yes	No _	Х
Type: Depth (inc							Hydric Soil Pr	esent?	Yes	No _	X
Type: Depth (inc							Hydric Soil Pr	esent?	Yes	No _	X
Type: Depth (inc							Hydric Soil Pr	resent?	Yes	No _	X
Type: Depth (inc							Hydric Soil Pr	resent?	Yes	No _	X
Type: Depth (inc							Hydric Soil Pr	esent?	Yes	No _	X
Type: Depth (inc							Hydric Soil Pr	esent?	Yes	No _	X
Type: Depth (inc							Hydric Soil Pr	esent?	Yes	No _	X
Type: Depth (inc							Hydric Soil Pr	resent?	Yes	No _	X
Type: Depth (inc							Hydric Soil Pr	resent?	Yes	No _	X
Type: Depth (inc							Hydric Soil Pr	resent?	Yes	No _	X
Type: Depth (inc							Hydric Soil Pr	resent?	Yes	No _	X
Type: Depth (inc							Hydric Soil Pr	resent?	Yes	No _	X
Type: Depth (inc							Hydric Soil Pr	resent?	Yes	No _	X
Type: Depth (inc							Hydric Soil Pr	resent?	Yes	No _	Х
Type: Depth (inc							Hydric Soil Pr	resent?	Yes	No _	X
Type: Depth (inc							Hydric Soil Pr	resent?	Yes	No _	X
Type: Depth (inc							Hydric Soil Pr	resent?	Yes	No _	X
Type: Depth (inc							Hydric Soil Pr	resent?	Yes	No _	X
Type: Depth (inc							Hydric Soil Pr	resent?	Yes	No _	X
Туре:							Hydric Soil Pr	resent?	Yes	No _	X
Type: Depth (inc							Hydric Soil Pr	resent?	Yes	No _	X
Type: Depth (inc							Hydric Soil Pr	resent?	Yes	No _	X
Type: Depth (inc							Hydric Soil Pr	resent?	Yes	No _	X

Project/Site:	20139 Marcy Nan	ocenter	City/Co	ounty:	Oneida Co	unty	Sampling Date:	04/27/2021
	•	M\	/EDGE	<u> </u>		ite: New York	Sampling Point:	WL005-1W
Investigator(s):	JK, KM		Section	n, Township, Ra	nge:		Marcy	
Landform (hillslope, terrace		Flat	Local relief (cor	•		None	Slope	e (%): 0
Subregion (LRR or MLRA):		RA 172		3.1317515	Long:	-75.23873		m: WGS 1984
Soil Map Unit Name:			loam, occasionally flo	oded		NWI classification	on:	-
Are climatic / hydrologic cor		ical for this ti	me of year? Yes	X No	(If no,	explain in Remark	(s.)	
Are Vegetation, S	Soil , or Hydi	ology	significantly disturb	ed?	Are "Normal Circ	cumstances" prese	ent? Yes	X No
	Soil, or Hydr				(If needed, expla	in any answers in	Remarks.)	
SUMMARY OF FINDI		· · · · · · · · · · · · · · · · · · ·			ons, transec	ts, important	features, etc.	
Hydrophytic Vegetation P		es X	No	Is the Sam	•	-	•	
Hydric Soil Present?	Ye		No	within a We	•	Yes X	No	
Wetland Hydrology Prese			No		nal Wetland Site		W002 PEM	
Remarks: (Explain alterna	ative procedures here	or in a separ	ate report.)					
HYDROLOGY								
Wetland Hydrology Indi	cators:							
Primary Indicators (minim		heck all that	apply)			Secondary Indic	ators (minimum of	two required)
X Surface Water (A1)	•		Water-Stained Leaves	s (B9)			l Cracks (B6)	
X High Water Table (A	2)		Aquatic Fauna (B13)			Drainage P	atterns (B10)	
X Saturation (A3)		:	Marl Deposits (B15)			Moss Trim I	Lines (B16)	
Water Marks (B1)		<u>X</u> I	Hydrogen Sulfide Odd	or (C1)		Dry-Seasor	Water Table (C2)	
Sediment Deposits (B2)	(Oxidized Rhizosphere	es on Living Roo	ots (C3)	Crayfish Bu	, ,	
Drift Deposits (B3)		!	Presence of Reduced	Iron (C4)		Saturation \	/isible on Aerial Im	agery (C9)
Algal Mat or Crust (E	34)	ا	Recent Iron Reduction	n in Tilled Soils	(C6)	Stunted or \$	Stressed Plants (D	1)
Iron Deposits (B5)			Thin Muck Surface (C	•			c Position (D2)	
	n Aerial Imagery (B7)		Other (Explain in Rem	narks)		Shallow Aq		
Sparsely Vegetated	Concave Surface (B8)					raphic Relief (D4)	
						X FAC-Neutra	al Test (D5)	
Field Observations:								
Surface Water Present?	Yes X	No	Depth (inches):	1				
Water Table Present?	Yes X	No	Depth (inches):	0				
Saturation Present?	Yes X	No	Depth (inches):	0	Wetland Hydi	ology Present?	Yes X	No
(includes capillary fringe)								
Describe Recorded Data	(stream gauge monit	oring well ae	rial photos previous	inspections) if:	available [.]			
	(ou our gaage, mem	ogo, a.o	mai priotos, promoto		a.raa.z			
Remarks:								

GETATION - Use scientific names of plants.				Sampling Point: WL005-	<u></u>
				Dominance Test worksheet:	
				Number of Dominant Species	
				That Are OBL, FACW, or FAC: 4 (A	١)
	Absolute	Dominant	Indicator		,
ree Stratum (Plot size: 30)	% Cover	Species?	Status	Total Number of Dominant	
Fraxinus pennsylvanica / Green ash	10	Yes	FACW	Species Across All Strata: 5 (E	3)
				(2	-,
				Percent of Dominant Species	
				·	4/B)
		<u></u>		That Ale OBL, FACW, of FAC. 80.0 (A	VD)
				Prevalence Index worksheet:	
		-	- · ·	Total % Cover of: Multiply by:	
	10	= Total Cov	er	OBL species 40 x 1 = 40	
pling/Shrub Stratum (Plot size: 15)		-		FACW species 40 x 2 = 80	
Carpinus caroliniana / American hornbeam	15	Yes	FAC	FAC species 15 x 3 = 45	
Rosa multiflora / Multiflora rose, Multiflora rosa	15	Yes	FACU		
·			17.00	FACU species 15 x 4 = 60	
				UPL species 0 x 5 = 0	
				Column Totals:110 (A)225	(B)
					
				Prevalence Index = B/A = 2.05	
					—
	30	_ = Total Cov	er	Hydrophytic Vegetation Indicators:	
erb Stratum (Plot size:)				1 - Rapid Test for Hydrophytic Vegetation	
Typha latifolia / Broadleaf cattail, Broad-leaved cattail	40	Yes	OBL	X 2 - Dominance Test is >50%	
Symphyotrichum novae-angliae / New england american-ast	30	Yes	FACW	X 3 - Prevalence Index ≤3.01	
				4 - Morphological Adaptations ¹ (Provide supporting	J
				Problematic Hydrophytic Vegetation¹ (Explain)	
				_ , , , , , ,	
				¹ Indicators of hydric soil and wetland hydrology must	
				be present, unless disturbed or problematic.	
-				be present, unless disturbed or problematic.	
				Definitions of Vegetation Strata	
				John Marie of Togotation Culture	
				Tree - Woody plants 3 in. (7.6 cm) or more in diameter a	at
•				breast height (DBH), regardless of height.	al
	70	_ = Total Cov	er	Sapling/shrub - Woody plants less than 3 in. DBH and	
oody Vine Stratum (Plot size:)				greater than or equal to 3.28 ft (1 m) tall.	
				Herb - All herbaceous (non-woody) plants, regardless o	ρf
				size, and woody plants less than 3.28 ft tall.	
		-		Woody vines - All woody vines greater than 3.28 ft in	
		-		height.	
		- Total Cav			
	0	_ = Total Cov	eı	Hydrophytic	
				Vegetation	
				_	
				Present? Yes No	

SOIL Sampling Point: WL005-1W

Depth	ription: (Describe to the Matrix	ne ueptri nee		e indicator	or confirm	uie absen	ce oi indicator	3.]		
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture		Remarks	
0-5	10YR 2/1	100					Loamy muck	Hydrogen	sulfide odor	
5-20	5Y 3/1	100					Loamy clay	,		
						,				
						,				
						,				
		·		-						
	-	-				_				
	-	·								
Type: C=Cor	centration, D=Depletio	n, RM=Reduc	ced Matrix, MS=Masl	ked Sand Gra	ains.		²Loca	ation: PL=P	ore Lining, M=Ma	atrix.
Hydric Soil II	ndicators:						Indicators	s for Proble	ematic Hydric S	inils³·
X Histosol			Polyvalue Belov	, Surface (S8	3) (I RR R I	MI RA 149) (LRR K, L, ML	
Lliatia En	ipedon (A2)	-	Thin Dark Surfa	•	,		· —		edox (A16) (LRF	-
		-				1430)				
Black His	n Sulfide (A4)	-	Loamy Mucky M Loamy Gleyed N		LKK K, L)				at or Peat (S3) (I 7) (LRR K, L)	LINK IN, L, K)
	l Layers (A5)	-	Depleted Matrix					7) (LRR R, L) / Surface (S8) (I	BBK I)	
	l Below Dark Surface (A	_ ^11\	Redox Dark Sur						ce (S9) (LRR K	· •
	irk Surface (A12)		Depleted Dark S						e Masses (F12)	
	lucky Mineral (S1)	-	Redox Depressi					ū	plain Soils (F19)	
	• • • •	-	Redox Deplessi	OIIS (FO)						
	leyed Matrix (S4)								A6) (MLRA 144	IA, 145, 145b)
	edox (S5)							Parent Mate		2)
	Matrix (S6)	DA 440D)							ark Surface (TF1:	2)
Dark Sur	face (S7) (LRR R, ML	-KA 149B)					Other	r (Explain ir	n Remarks)	
³Indicators of	hydrophytic vegetation	and wetland	hydrology must be p	resent, unles	s disturbed	or problem	natic.			
Restrictive L	ayer (if observed):									
Type:	, , , , , , , , , , , , , , , , , , , ,									
Depth (inc							Hydric Soil P	resent?	Yes X	No
Remarks:										

Project/Site:	20139 Ma	rcy Nanocenter	City/C	County:	Oneida Cour	nty	Sampling Date:	04/27/2021
Applicant/Owner:			MVEDGE			e: New York	Sampling Point:	WL005-2U
Investigator(s):		JK, KM	Section	on, Township, Ran	ige:		Marcy	
Landform (hillslope, terra				oncave, convex, n		Convex	Slope	(%): 3-8
Subregion (LRR or MLR.				43.13144883	Long:	-75.2401618		n: WGS 1984
Soil Map Unit Name:			dorthents, smoothed			NWI classification		
Are climatic / hydrologic					(If no, e		-	
, ,		* * * * * * * * * * * * * * * * * * * *	significantly distur		re "Normal Circu	•	,	X No
			naturally problem		f needed, explair			
SUMMARY OF FIN	_	· · · · · · · · · · · · · · · · · · ·			•	-	•	
		-				s, important	icatares, etc.	
Hydrophytic Vegetatio	on Present?	Yes		Is the Samp			N. V	
Hydric Soil Present?	10	Yes		within a We			NoX	=
Wetland Hydrology Pr	resent?	Yes	NoX	if yes, option	al Wetland Site I	D:		
Remarks: (Explain alte	ernative procedure	es here or in a ser	parate report.)					
, , , , , , , , , , , , , , , , , , ,			, , , , , , , , , , , , , , , , , , ,					
LIVEROL COV								
HYDROLOGY								
Wetland Hydrology I	Indicators:							
Primary Indicators (mi	inimum of one req	uired; check all th	at apply)			Secondary Indica	ators (minimum of t	wo required)
Surface Water (A	A1)	_	_ Water-Stained Leave	` '			l Cracks (B6)	
High Water Table	e (A2)	_	_ Aquatic Fauna (B13))		Drainage Pa	atterns (B10)	
Saturation (A3)		_	Marl Deposits (B15)			Moss Trim L	` '	
Water Marks (B1)	•	_	_ Hydrogen Sulfide Od	dor (C1)		Dry-Season	Water Table (C2)	
Sediment Deposi	its (B2)	_	Oxidized Rhizosphe	res on Living Roof	ts (C3)	Crayfish Bu		
Drift Deposits (B3	3)	_	Presence of Reduce	d Iron (C4)		Saturation V	isible on Aerial Im	agery (C9)
Algal Mat or Crus	st (B4)	_	Recent Iron Reduction	on in Tilled Soils (C6)	Stunted or S	Stressed Plants (D'	1)
Iron Deposits (B5	5)	_	Thin Muck Surface (•		Geomorphic	Position (D2)	
Inundation Visible	e on Aerial Image	ry (B7)	Other (Explain in Re	marks)		Shallow Aqu	uitard (D3)	
· —		(DO)				Microtopogr	aphic Relief (D4)	
	ted Concave Surfa	ace (B8)						
	ted Concave Surfa	ace (B8)			•	FAC-Neutra	l Test (D5)	
Sparsely Vegetat	ted Concave Surfa	ace (B8)					I Test (D5)	
Sparsely Vegetat			Donth (inches)				I Test (D5)	
Sparsely Vegetat Field Observations: Surface Water Presen	nt? Yes	NoX	_ ' ' _				I Test (D5)	
Field Observations: Surface Water Presen Water Table Present?	nt? Yes	NoX NoX	Depth (inches):		Westland Hydro	FAC-Neutra		No. V
Field Observations: Surface Water Presen Water Table Present? Saturation Present?	nt? Yes Yes Yes	NoX			Wetland Hydro	FAC-Neutra	Yes	No <u>X</u>
Field Observations: Surface Water Presen Water Table Present?	nt? Yes Yes Yes	NoX NoX	Depth (inches):		Wetland Hydro	FAC-Neutra		NoX
Field Observations: Surface Water Presen Water Table Present? Saturation Present? (includes capillary fring	nt? Yes Yes Yes	No X No X No X	Depth (inches): Depth (inches):	s inspections), if a		FAC-Neutra		No X
Field Observations: Surface Water Presen Water Table Present? Saturation Present? (includes capillary fring	nt? Yes Yes Yes	No X No X No X	Depth (inches):	s inspections), if a		FAC-Neutra		No X
Field Observations: Surface Water Presen Water Table Present? Saturation Present? (includes capillary fring	nt? Yes Yes Yes	No X No X No X	Depth (inches): Depth (inches):	s inspections), if a		FAC-Neutra		No X
Field Observations: Surface Water Presen Water Table Present? Saturation Present? (includes capillary fring	nt? Yes Yes Yes	No X No X No X	Depth (inches): Depth (inches):	s inspections), if a		FAC-Neutra		No X
Field Observations: Surface Water Presen Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Da	nt? Yes Yes Yes	No X No X No X	Depth (inches): Depth (inches):	s inspections), if a		FAC-Neutra		No <u>X</u>
Field Observations: Surface Water Presen Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Da	nt? Yes Yes Yes	No X No X No X	Depth (inches): Depth (inches):	s inspections), if a		FAC-Neutra		No X
Field Observations: Surface Water Presen Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Da	nt? Yes Yes Yes ge)	No X No X No X	Depth (inches): Depth (inches):	s inspections), if a		FAC-Neutra		No X
Field Observations: Surface Water Presen Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Da	nt? Yes Yes Yes ge)	No X No X No X	Depth (inches): Depth (inches):	s inspections), if a		FAC-Neutra		No X
Field Observations: Surface Water Presen Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Da	nt? Yes Yes Yes ge)	No X No X No X	Depth (inches): Depth (inches):	s inspections), if a		FAC-Neutra		No X
Field Observations: Surface Water Presen Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Da	nt? Yes Yes Yes ge)	No X No X No X	Depth (inches): Depth (inches):	s inspections), if a		FAC-Neutra		No <u>X</u>
Field Observations: Surface Water Presen Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Da	nt? Yes Yes Yes ge)	No X No X No X	Depth (inches): Depth (inches):	s inspections), if a		FAC-Neutra		No X
Field Observations: Surface Water Presen Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Da	nt? Yes Yes Yes ge)	No X No X No X	Depth (inches): Depth (inches):	s inspections), if a		FAC-Neutra		No X
Field Observations: Surface Water Presen Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Da	nt? Yes Yes Yes ge)	No X No X No X	Depth (inches): Depth (inches):	s inspections), if a		FAC-Neutra		No X
Field Observations: Surface Water Presen Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Da	nt? Yes Yes Yes ge)	No X No X No X	Depth (inches): Depth (inches):	s inspections), if a		FAC-Neutra		No X
Field Observations: Surface Water Presen Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Da	nt? Yes Yes Yes ge)	No X No X No X	Depth (inches): Depth (inches):	s inspections), if a		FAC-Neutra		No X
Field Observations: Surface Water Presen Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Da	nt? Yes Yes Yes ge)	No X No X No X	Depth (inches): Depth (inches):	s inspections), if a		FAC-Neutra		No X
Field Observations: Surface Water Presen Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Da	nt? Yes Yes Yes ge)	No X No X No X	Depth (inches): Depth (inches):	s inspections), if a		FAC-Neutra		No X
Field Observations: Surface Water Presen Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Da	nt? Yes Yes Yes ge)	No X No X No X	Depth (inches): Depth (inches):	s inspections), if a		FAC-Neutra		No X
Field Observations: Surface Water Presen Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Da	nt? Yes Yes Yes ge)	No X No X No X	Depth (inches): Depth (inches):	s inspections), if a		FAC-Neutra		No X

				Dominance Test worksheet:
				Number of Dominant Species
				That Are OBL, FACW, or FAC: 4 (A)
	Absolute	Dominant	Indicator	(1)
ree Stratum (Plot size: 30)	% Cover	Species?	Status	
. Populus deltoides / Eastern cottonwood	50	Yes	FAC	Total Number of Dominant
•				Species Across All Strata: 6 (B)
. Ulmus rubra / Slippery elm	20	Yes	FAC	,
3. Populus tremuloides / Quaking aspen	10	No	FACU	
		_		Percent of Dominant Species
-				That Are OBL, FACW, or FAC: 66.7 (A/E
				Prevalence Index worksheet:
		_		
		- Total Cov		Total % Cover of: Multiply by:
	80	_ = Total Cov	er	OBL species0 x 1 =0
Sapling/Shrub Stratum (Plot size: 15)				FACW species 0 x 2 = 0
Rosa multiflora / Multiflora rose, Multiflora rosa	20	Yes	FACU	
		Yes	FAC	
Rhamnus cathartica / European buckthorn	IU		FAU	FACU species 30 x 4 = 120
				UPL species 15 x 5 = 75
				· — — — —
· -				Column Totals:135 (A)465 (
•				
·				Prevalence Index = B/A = 3.44
		_		FIEVAIGHCE HIGGS - DIA - 0.77
*				
	35	_ = Total Cov	er	Hydrophytic Vegetation Indicators:
erb Stratum (Plot size:)				1 - Rapid Test for Hydrophytic Vegetation
. Solidago / Goldenrod	15	Yes		X 2 - Dominance Test is >50%
. Equisetum arvense / Common horsetail	5	Yes	FAC	3 - Prevalence Index ≤3.0¹
				4 - Morphological Adaptations1 (Provide supporting
				Problematic Hydrophytic Vegetation¹ (Explain)
·				Problematic Hydrophytic vegetation (Explain)
j				
S				¹ Indicators of hydric soil and wetland hydrology must
·. ·.		_		be present, unless disturbed or problematic.
· -				De present, unless disturbed of problematic.
3				_
).				Definitions of Vegetation Strata
			- ——	
				Tree - Woody plants 3 in. (7.6 cm) or more in diameter at
1				breast height (DBH), regardless of height.
2				breast neight (DBh), regardless of height.
<u></u>	20	= Total Cov		Sapling/shrub - Woody plants less than 3 in. DBH and
		_ = 10(a) 00%	er	greater than or equal to 3.28 ft (1 m) tall.
Voody Vine Stratum (Plot size: 30)				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
l		_		height.
`				
	0	_ = Total Cov	er	Hydrophytic
				Vegetation
				Present? Yes No

SOIL Sampling Point: WL005-2U

Depth	ription: (Describe to th Matrix	<u> </u>		x Features							
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture		Remar	ks	
0-18	10YR 3/2	100					Sandy loam				
	· 										
Type: C=Co	ncentration, D=Depletion	n, RM=Redu	ced Matrix, MS=Mas	ked Sand Gr	ains.		² Locatio	on: PL=P	ore Lining, N	/I=Matrix.	
Hydric Soil I	ndicators:						Indicators f	or Proble	ematic Hvd	ric Soils³:	
Histosol			Polyvalue Belov	w Surface (S8	3) (LRR R.N	/ILRA 149			-	., MLRA 149	9B)
	pipedon (A2)		Thin Dark Surfa							(LRR K, L,	-
	istic (A3)		Loamy Mucky N			,				3) (LRR K,	
	en Sulfide (A4)		Loamy Gleyed		(=::::, =,				7) (LRR K,		_, ,
	d Layers (A5)		Depleted Matrix					-		-, 8) (LRR K ,	L)
	d Below Dark Surface (A	\11)	Redox Dark Su						e (S9) (LR	,	,
	ark Surface (A12)	,	Depleted Dark							12) (LRR K	K, L, R)
	Mucky Mineral (S1)		Redox Depress				Piedmo	nt Flood	olain Soils (F	- 19) (MLRA	149B)
Sandy G	Gleyed Matrix (S4)			, ,			·			A 144A, 145	
Sandy F	Redox (S5)						Red Pa	rent Mate	erial (F21)		•
	Matrix (S6)								rk Surface (TF12)	
	rface (S7) (LRR R, ML	RA 149B)							Remarks)		
							<u> </u>				
3Indicators of	hydrophytic vegetation	and wetland	hydrology must be p	resent, unles	s disturbed	or problem	atic.				
Restrictive I	_ayer (if observed):										
Type:	Layer (II observed).										
Depth (in	iches).						Hydric Soil Pre	sent?	Yes	No	Х
Deptii (iii							Tryunc con rie	361111			
Remarks:											

Project/Site:	20139 Marc	y Nanocenter		City/Coun	ity:	Oneida Cou	unty	Sampling Date:	04/27/2021
		-	MVEDGE			Sta	ate: New York	Sampling Point:	WL005-2W
Investigator(s):	J	K, KM		Section, T	ownship, Rang	e:		Marcy	
Landform (hillslope, terrace	e, etc):	Hill slope	Local r	•	ve, convex, nor		Concave	Slop	oe (%): 3-8
Subregion (LRR or MLRA):			 Lat:		3132483	Long:	-75.240158	83 Dati	um: WGS 1984
Soil Map Unit Name:			Udorthents, smoo	othed			NWI classification	on:	PFO1A
Are climatic / hydrologic co	nditions on the s					(If no,	explain in Remark	(s.)	
Are Vegetation,	Soil , o	r Hydrology	significant	ly disturbed	? Are	e "Normal Circ	cumstances" prese	ent? Yes	X No
			naturally p				in any answers in		
SUMMARY OF FIND		·				s, transec	ts, important	features, etc.	
Hydrophytic Vegetation F		Yes X			Is the Sample				
Hydric Soil Present?		Yes X			within a Wetla		Yes X	No	
Wetland Hydrology Pres	ent?	Yes X			If yes, optiona			W001-2W PF0	<u></u>
Remarks: (Explain altern	ative procedures	s here or in a s	separate report.)						
HYDROLOGY									
Wetland Hydrology Ind	icators:								
Primary Indicators (minin		ired; check all	that apply)				Secondary Indica	ators (minimum o	f two required)
Surface Water (A1)			Water-Staine	d Leaves (E	39)		Surface Soi	l Cracks (B6)	
High Water Table (A	\ 2)	_	Aquatic Faur	na (B13)			X Drainage P	atterns (B10)	
Saturation (A3)		_	Marl Deposit	s (B15)			Moss Trim I	Lines (B16)	
Water Marks (B1)		Hydrogen Sι	ılfide Odor (C1)		Dry-Seasor	Dry-Season Water Table (C2)		
Sediment Deposits	(B2)	_	X Oxidized Rhi	zospheres o	on Living Roots	(C3)	Crayfish Bu		
Drift Deposits (B3)		-	Presence of	Reduced Iro	on (C4)		Saturation \	/isible on Aerial I	nagery (C9)
Algal Mat or Crust (B4)	-			n Tilled Soils (Co	6)	—	Stressed Plants (I)1)
Iron Deposits (B5)		-	Thin Muck S					c Position (D2)	
Inundation Visible o		-	Other (Expla	in in Remar	ks)		Shallow Aq		
Sparsely Vegetated	Concave Surfac	ce (B8)						raphic Relief (D4)	
							X FAC-Neutra	al Test (D5)	
Field Observations:									
Surface Water Present?	Yes	No	X Depth (inch	ies):					
Water Table Present?	Yes _	No	X Depth (inch	ies):					
Saturation Present?	Yes _	No	X Depth (inch	ies):		Wetland Hydi	rology Present?	Yes X	No
(includes capillary fringe))								
Describe Recorded Data	(stream gauge	monitoring we	ell aerial photos i	orevious ins	nections) if ava	ailahle [.]			
Boothbo Noordod Bala	(ou our gaago,	morntoning we	iii, adriai priotod, į	provious inc	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	anabio.			
Remarks:									

	- <u> </u>	Indicator Status FAC FACW	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: 5 (A) Total Number of Dominant Species Across All Strata: 6 (B) Percent of Dominant Species That Are OBL, FACW or FAC: 83.2 (A/D)
% Cover 30 15	Species? Yes Yes	Status FAC FACW	That Are OBL, FACW, or FAC: 5 (A) Total Number of Dominant Species Across All Strata: 6 (B) Percent of Dominant Species
% Cover 30 15	Species? Yes Yes	Status FAC FACW	Total Number of Dominant Species Across All Strata: 6 (B) Percent of Dominant Species
% Cover 30 15	Species? Yes Yes	Status FAC FACW	Species Across All Strata: 6 (B) Percent of Dominant Species
30 15	Yes Yes	FACW	Species Across All Strata: 6 (B) Percent of Dominant Species
15	Yes	FACW	Species Across All Strata: 6 (B) Percent of Dominant Species
			Percent of Dominant Species
	Total Number of Dominant Yes FAC Yes FACW Percent of Dominant Species That Are OBL, FACW, or FAC: Species Across All Strata: Species Across All Strata: Percent of Dominant Species That Are OBL, FACW, or FAC: Status Species Across All Strata: Tota		
		Number of Dominant Species That Are OBL, FACW, or FAC: 5 (A) Species? Yes FACW Percent of Dominant Species That Are OBL, FACW, or FAC: 5 (B) Percent of Dominant Species That Are OBL, FACW, or FAC: 83.3 (A/B) Percent of Dominant Species That Are OBL, FACW, or FAC: 83.3 (A/B) Prevalence Index worksheet: Total Cover Yes OBL Yes FACU Total Species 25 x1 = 25 FACW species 65 x2 = 130 FAC species 30 x3 = 90 FACU species 10 x4 = 40 UPL species 0 x5 = 0 Column Totals: 130 (A) 285 (B) Prevalence Index = B/A = 2.19 Fotal Cover Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation X 2 - Dominance Test is >50% X 3 - Prevalence Index = 33.0" 4 - Morphological Adaptations¹ (Provide supporting Problematic Hydrophytic Vegetation¹ (Explain) "Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Definitions of Vegetation Strata Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.	
			TIMATE UBLI FACTV. OF FACT: 83,3 (A/B)
			11100.110.000.11.10.10
			Prevalence Index worksheet:
			Total % Cover of: Multiply by:
45	_ = Total Cov	er	
			FACW species 65 x 2 = 130
25		OBL	<u> </u>
10	Yes	FACU	
	<u> </u>		· — — —
			(*)
			Prevalence Index = R/A = 2.19
			Flevalence index = DIA = 2.10
35	= Total Cov	er	Hydrophytic Vegetation Indicators:
	-		
30	Yes	FACW	
	_		
			Floblematic Hydrophytic vegetation (Explain)
			41-disates of hydric coil and watland hydrology must
			be present, unless disturbed or problematic.
			Definitions of Vegetation Strata
			Definitions of Vegetation of all
			Tree Woody plants 2 in (7.6 cm) or more in diameter at
50	_ = Total Cov	er	
	-		Woody vines - All woody vines greater than 3.28 ft in
			height.
0	= Total Cov	er	
	-		Hydrophytic
			Vegetation
			Present? Yes X No
	35 30 20 50	10 Yes 35 = Total Cov 30 Yes 20 Yes 50 = Total Cov	10 Yes FACU 35 = Total Cover 30 Yes FACW 20 Yes FACW 50 = Total Cover

SOIL Sampling Point: WL005-2W

Depth	ription: (Describe to t Matrix			x Features				- /		
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture		Remarks	
0-9	7.5YR 3/2	70	5YR 4/6	5	C	PL,M	Clay loam	-		
0-9	10YR 6/3	25					Sand			
9-18	7.5YR 3/2	95	2.5YR 3/6	5	С	M	Clay loam	-		
								-		
								-		
	95 2.5YR 3/6 5 C M Clay loam pe: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. pe: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. pe: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. polyvalue Below Surface (S8) (LRR R,MLRA 149B) Histos (A1)									
			-							
	-									
Type: C=Cor	ncentration, D=Depletion	on, RM=Redi	uced Matrix, MS=Mas	ked Sand Gr	ains.		²Loca	ation: PL=P	ore Lining, M=Ma	atrix.
lydric Soil I	ndicators:						Indicators	for Proble	ematic Hydric S	oils³:
-			Polyvalue Belov	v Surface (S8	3) (LRR R,	MLRA 149			-	
	• •									•
							_			
					· - · , - /					, - , • • ,
								•		RR K. L)
		′Δ11)	 :	` '						· •
		(111)					_			
								Ū	` '	
	• • • • • • • • • • • • • • • • • • • •		Redox Depress	10118 (F0)						
	•									A, 145, 149B)
							_			
		L DA 440D\								2)
Dark Sur	nace (57) (LKK K, W	LKA 149B)					Other	(Explain if	i Remarks)	
Indicators of	hydrophytic vegetation	n and wetland	d hydrology must be p	resent, unles	s disturbed	or problem	atic.			
		n and wetland	d hydrology must be p	resent, unles	s disturbed	l or problem	iatic.			
Restrictive L	hydrophytic vegetation	n and wetland	d hydrology must be p	resent, unles	s disturbed	or problem	iatic.			
	ayer (if observed):	n and wetland	d hydrology must be p	resent, unles	s disturbed	or problem	Hydric Soil P	resent?	Yes X	No
Restrictive L Type: Depth (in	ayer (if observed):	n and wetland	d hydrology must be p	resent, unles	s disturbed	or problem		resent?	Yes X	No
Restrictive L Type: Depth (in	ayer (if observed):	n and wetland	d hydrology must be p	resent, unles	s disturbed	d or problem		resent?	Yes X	No
Restrictive L Type: Depth (in	ayer (if observed):	and wetland	d hydrology must be p	resent, unles	s disturbed	d or problem		resent?	Yes X	No
Restrictive L Type: Depth (in	ayer (if observed):	and wetland	d hydrology must be p	resent, unles	s disturbed	d or problem		resent?	Yes X	No
Restrictive L Type: Depth (in	ayer (if observed):	and wetland	d hydrology must be p	resent, unles	s disturbed	d or problem		resent?	Yes X	No
Restrictive L Type: Depth (in	ayer (if observed):	and wetland	d hydrology must be p	resent, unles	s disturbed	d or problem		resent?	Yes X	No
Restrictive L Type: Depth (in	ayer (if observed):	n and wetland	d hydrology must be p	resent, unles	s disturbed	d or problem		resent?	Yes X	No
Restrictive L Type: Depth (in	ayer (if observed):	n and wetland	d hydrology must be p	resent, unles	s disturbed	d or problem		resent?	Yes X	No
Restrictive L Type: Depth (in	ayer (if observed):	n and wetland	d hydrology must be p	resent, unles	s disturbed	d or problem		resent?	Yes X	No
Restrictive L Type: Depth (in	ayer (if observed):	n and wetland	d hydrology must be p	resent, unles	s disturbed	d or problem		resent?	Yes X	No
Restrictive L Type: Depth (in	ayer (if observed):	n and wetland	d hydrology must be p	resent, unles	s disturbed	d or problem		resent?	Yes X	No
Restrictive L Type: Depth (in	ayer (if observed):	n and wetland	d hydrology must be p	resent, unles	s disturbed	d or problem		resent?	Yes X	No
Restrictive L Type: Depth (in	ayer (if observed):	n and wetland	d hydrology must be p	resent, unles	s disturbed	d or problem		resent?	Yes X	No
Restrictive L Type: Depth (in	ayer (if observed):	n and wetland	d hydrology must be p	resent, unles	s disturbed	d or problem		resent?	Yes X	No
Restrictive L Type: Depth (in	ayer (if observed):	n and wetland	d hydrology must be p	resent, unles	s disturbed	d or problem		resent?	Yes X	No
Restrictive L Type: Depth (in	ayer (if observed):	n and wetland	d hydrology must be p	resent, unles	s disturbed	d or problem		resent?	Yes X	No
Restrictive L Type: Depth (in	ayer (if observed):	n and wetland	d hydrology must be p	resent, unles	s disturbed	d or problem		resent?	Yes X	No
Restrictive L	ayer (if observed):	n and wetland	d hydrology must be p	resent, unles	s disturbed	d or problem		resent?	Yes X	No
Restrictive L Type: Depth (in	ayer (if observed):	n and wetland	d hydrology must be p	resent, unles	s disturbed	d or problem		resent?	Yes X	No
Restrictive L Type: Depth (in	ayer (if observed):	n and wetland	d hydrology must be p	resent, unles	s disturbed	d or problem		resent?	Yes X	No
Restrictive L Type: Depth (in	ayer (if observed):	n and wetland	d hydrology must be p	resent, unles	s disturbed	d or problem		resent?	Yes X	No
Restrictive L Type: Depth (in	ayer (if observed):	n and wetland	d hydrology must be p	resent, unles	s disturbed	d or problem		resent?	Yes X	No
Restrictive L Type: Depth (in	ayer (if observed):	n and wetland	d hydrology must be p	resent, unles	s disturbed	d or problem		resent?	Yes X	No
Restrictive L Type: Depth (in	ayer (if observed):	n and wetland	d hydrology must be p	resent, unles	s disturbed	d or problem		resent?	Yes X	No

Project/Site: 20	139 Marcy Nanocenter	City/Cou	ınty:	Oneida Coun	ty	Sampling Date:	04/28/2021
Applicant/Owner:	M	IVEDGE	-	State	: New York	Sampling Point:	WL006-1U
Applicant/Owner: Investigator(s):	JK, KM	Section,	Township, Range):		Marcy	
Landform (hillslope, terrace, etc):		Local relief (cond	cave, convex, none	e):	None	Slope	e (%): O
Subregion (LRR or MLRA):			.1318103	Long:	-75.241272	27 Datur	m: WGS 1984
Soil Map Unit Name:	Udo	orthents, smoothed			NWI classificati	on:	'-
Are climatic / hydrologic conditions	on the site typical for this	time of year? Yes	X No	(If no, ex	kplain in Remark	(S.)	
Are Vegetation, Soil	, or Hydrology	significantly disturbe	d? Are	"Normal Circu	mstances" prese	ent? Yes	X No
	, or Hydrology			eeded, explain	any answers in	Remarks.)	
SUMMARY OF FINDINGS				s, transects	s, important	features, etc.	
Hydrophytic Vegetation Present	-	No X	Is the Sample		<i>′</i> •	•	
Hydric Soil Present?	Yes	 	within a Wetla		Yes	NoX	
Wetland Hydrology Present?	Yes	No X			D:		_
Remarks: (Explain alternative pr		<u> </u>	7 - 7 - 7				
HYDROLOGY							
Wetland Hydrology Indicators							
Primary Indicators (minimum of	one required; check all that	t apply)			Secondary Indic	ators (minimum of	two required)
Surface Water (A1)	_	Water-Stained Leaves	(B9)	<u>-</u>		l Cracks (B6)	
High Water Table (A2)	_	Aquatic Fauna (B13)		-		atterns (B10)	
Saturation (A3)	_	Marl Deposits (B15)	(04)	-	Moss Trim		
Water Marks (B1)	_	Hydrogen Sulfide Odor		-		Water Table (C2)	
Sediment Deposits (B2)	_	Oxidized Rhizospheres	•	(63)	Crayfish Bu		(CO)
Drift Deposits (B3) Algal Mat or Crust (B4)	_	Presence of Reduced I Recent Iron Reduction	` '	-		/isible on Aerial Im Stressed Plants (D	
Iron Deposits (B5)	_	Thin Muck Surface (C7	·	·) _		Position (D2)	1)
Inundation Visible on Aeria	I Imagery (R7)	Other (Explain in Rema	•	-	Shallow Aq		
Sparsely Vegetated Concar		Other (Explain in Rema	arks)	-		raphic Relief (D4)	
operatory vegetation contact	vo cundos (Bo)			-	FAC-Neutra		
Field Observations:				<u> </u>			
Surface Water Present?	Yes NoX	Depth (inches):					
Water Table Present?	Yes NoX	Depth (inches):					
Saturation Present?	Yes NoX	Depth (inches):	W	etland Hydro	logy Present?	Yes	No X
(includes capillary fringe)							
Describe Recorded Data (strear	m gauge, monitoring well, a	erial photos, previous ir	nspections), if avai	ilable:			
Remarks:							
1							

VEGETATION - Use scientific names of plants.				Sampling Point: WL006-1U
	Absolute	Dominant	Indicator	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)
Tree Stratum (Plot size: 30)		Dominant		
				Total Number of Dominant
Populus tremuloides / Quaking aspen	- 80	res	FACU	Species Across All Strata: 7 (B)
2.		_		
3		-		Percent of Dominant Species
4				That Are OBL, FACW, or FAC: 28.6 (A/B)
5				
6				
7		- Total Cov		
Sanling/Shrub Stratum (Plot size: 15		_ = 10tal C0V	ei	·
Sapling/Shrub Stratum (Plot size:) 1. Rhamnus cathartica / European buckthorn	40	Voo	EAC	
Rosa multiflora / Multiflora rose, Multiflora rosa				
			FACO	· — — — —
				· — — —
4 5.				Column Totals: <u>149</u> (A) <u>556</u> (B)
	Species Across All Strata:			
7		- Total Cov		Hydronhytic Vocatation Indicators:
Herb Stratum (Plot size: 5)		_ = 10(a) 000	CI	
1. Fragaria vesca ssp. vesca / Woodland strawberry	5	Vec		-
Trayara vesca ssp. vesca / Woodland strawberry Taraxacum officinale / Red seeded dandelion, Common dan			EACH.	
3. Rosa multiflora / Multiflora rose, Multiflora rosa				
4 5.			 	Troblematic Hydrophytic Vegetation (Explain)
				1Indicators of hydric soil and wetland hydrology must
7				
				be precent, amose distances of precionation
				Definitions of Vegetation Strata
10				
11.				
12.				breast height (DBH), regardless of height.
	9	= Total Cov	er	
Woody Vine Stratum (Plot size: 30)		_		
1. Vitis riparia / River-bank grape	5	Yes	FAC	
2.				size, and woody plants less than 3.28 ft tall.
3.				Woody vines - All woody vines greater than 3.28 ft in
4.				height.
	5	= Total Cov	er	Hudronbudio
		- '		Hydrophytic Vegetation
				Present? Yes No X
Remarks: (Explain alternative procedures here or in a separate	report.)			
	-1/			

SOIL Sampling Point: WL006-1U

Depth	ription: (Describe to th Matrix			x Features							
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture		Remar	ks	
0-18	7.5YR 3/2	100					Sandy loam				
				_							
	·										
Type: C=Coi	ncentration, D=Depletion	n, RM=Redu	ced Matrix, MS=Mas	ked Sand Gr	ains.		² Locatio	on: PL=Po	ore Lining, N	/I=Matrix.	
Hydric Soil I	ndicators:						Indicators f	or Proble	ematic Hyd	ric Soils³:	
Histosol	(A1)		Polyvalue Belov	w Surface (S8	3) (LRR R,N	ILRA 149	B) 2 cm M	uck (A10) (LRR K, L	., MLRA 14	9B)
Histic Ep	oipedon (A2)		Thin Dark Surfa	ace (S9) (LR	R R, MLRA	149B)	Coast F	Prairie Re	dox (A16)	(LRR K, L,	R)
Black Hi	stic (A3)		Loamy Mucky N	Mineral (F1)	(LRR K, L)		5 cm M	ucky Pea	t or Peat (S	3) (LRR K	, L, R)
Hydroge	en Sulfide (A4)		Loamy Gleyed	Matrix (F2)			Dark S	urface (S	7) (LRR K,	L)	
Stratified	d Layers (A5)		Depleted Matrix	(F3)			Polyval	ue Below	Surface (S	3) (LRR K	, L)
Depleted	d Below Dark Surface (A	\11)	Redox Dark Su	rface (F6)			Thin Da	ark Surfac	e (S9) (LR	R K, L)	
Thick Da	ark Surface (A12)		Depleted Dark	Surface (F7)			Iron-Ma	anganese	Masses (F	12) (LRR	K, L, R)
Sandy M	lucky Mineral (S1)		Redox Depress	sions (F8)			Piedmo	nt Floodp	olain Soils (F	-19) (MLR/	A 149B)
Sandy G	Gleyed Matrix (S4)						Mesic S	Spodic (TA	46) (MLR	، 144A, 145	5, 149B)
Sandy F	Redox (S5)						Red Pa	rent Mate	erial (F21)		
Stripped	l Matrix (S6)						Very Sh	nallow Da	rk Surface (TF12)	
Dark Su	rface (S7) (LRR R, ML	RA 149B)					Other (Explain in	Remarks)		
³ Indicators of	hydrophytic vegetation	and wetland	hydrology must be r	oresent unles	s disturbed o	or problem	atic				
			, a. c. c.gy act 20 p			, p. 00.0					
Type:	ayer (if observed):										
Depth (in	ches).						Hydric Soil Pre	sent?	Yes	No	Х
Deptii (iii							Tryunc con rie	361111			
Remarks:											

Project/Site:	20139 Marc	y Nanocenter		City/Cour	nty:	Oneida Co	unty	Sampling Date:	04/28/2021
Applicant/Owner:		-	MVEDGE	_		Sta	ate: New York	Sampling Point:	WL006-1W
Investigator(s):		JK, KM		Section,	Township, Rang	ge:	 -	Marcy	
Landform (hillslope, terrac			Local	_	ave, convex, no		None	Slope	e (%): 0
Subregion (LRR or MLRA					13186783	Long:	-75.241427		m: WGS 1984
			Undorthents, smo	oothed			NWI classification	on:	
Are climatic / hydrologic co			this time of year?	Yes 2	X No	(If no,	explain in Remark	(s.)	
Are Vegetation,	, Soil , c	r Hydrology	significan	tly disturbed	d? Ar	e "Normal Circ	cumstances" prese	ent? Yes	X No
	, Soil, c					needed, expla	ain any answers in	Remarks.)	
SUMMARY OF FIND		-				ns, transec	ts, important	features, etc.	
Hydrophytic Vegetation		Yes >			Is the Sampl		•		
Hydric Soil Present?			No		within a Wet		Yes X	No	
Wetland Hydrology Pres	sent?	Yes >				al Wetland Site		W003 PEM	_
Remarks: (Explain alter Historically	rnative procedure y disturbed area,			L					
HYDROLOGY									
Wetland Hydrology Inc	dicators:								
Primary Indicators (mini	imum of one requ	ired; check all	that apply)				Secondary Indic	ators (minimum of	two required)
Surface Water (A1)		Water-Staine	ed Leaves (B9)		Surface Soi	l Cracks (B6)	
High Water Table ((A2)		Aquatic Fau	na (B13)			Drainage P	atterns (B10)	
Saturation (A3)		-	Marl Deposit	ts (B15)			Moss Trim I	_ines (B16)	
Water Marks (B1)			Hydrogen Si					Water Table (C2)	
Sediment Deposits			X Oxidized Rh			s (C3)	Crayfish Bu	` '	
Drift Deposits (B3)			Presence of		. ,			/isible on Aerial Im	. ,
Algal Mat or Crust					n Tilled Soils (C	26)		Stressed Plants (D	1)
Iron Deposits (B5)		(DZ)	Thin Muck S					Position (D2)	
Inundation Visible			Other (Expla	ain in Rema	rks)		Shallow Aq	` '	
Sparsely Vegetate	d Concave Suria	ce (B8)					FAC-Neutra	raphic Relief (D4)	
					1		17.0 140410		
Field Observations:									
Surface Water Present?	? Yes _		X Depth (inch	-					
Water Table Present?	Yes _		X Depth (inch	· —					
Saturation Present?	Yes _	No	X Depth (inch	nes):		Wetland Hyd	rology Present?	Yes X	No
(includes capillary fringe	a)								
Describe Recorded Dat	ta (stream gauge	monitoring we	ell, aerial photos,	previous in	spections), if av	/ailable:			
	, ,			•	, ,,				
Remarks:									

				Dominance Test worksheet: Number of Dominant Species
	Absolute	Dominant	Indicator	That Are OBL, FACW, or FAC: 3 (A)
Free Stratum (Plot size: 30)	% Cover	Species?	Status	
Populus tremuloides / Quaking aspen	76 COVE	Yes	FACU	Total Number of Dominant
. Fraxinus americana / White ash	<u>15</u> 5	Yes	FACU	Species Across All Strata: 6 (B)
		163	FACO	
•				Percent of Dominant Species
				That Are OBL, FACW, or FAC: 50.0 (A/E
•				Prevalence Index worksheet:
•				Total % Cover of: Multiply by:
	20	_ = Total Cov	er	OBL species 10 x 1 = 10
apling/Shrub Stratum (Plot size:15)				FACW species 70 x 2 = 140
. Populus tremuloides / Quaking aspen	15	Yes	FACU	FAC species 5 x 3 = 15
. Salix bebbiana / Gray willow, Bebb's willow	10	Yes	FACW	FACU species 40 x 4 = 160
. Viburnum lentago / Nanny-berry	5	No	FAC	UPL species 15 x 5 = 75
				Column Totals: 140 (A) 400 (B
-				COlumni iotais. 140 (A) -100 (
				Prevalence Index = B/A = 2.86
	30	= Total Cov	 /er	Hydrophytic Vegetation Indicators:
lerb Stratum (Plot size: 5)		_		1 - Rapid Test for Hydrophytic Vegetation
. Equisetum laevigatum / Smooth scouring rush	30	Yes	FACW	2 - Dominance Test is >50%
2. Onoclea sensibilis / Sensitive fern	30	Yes	FACW	X 3 - Prevalence Index ≤3.0¹
3. Aster / Aster	<u></u>	No	17.0	4 - Morphological Adaptations¹ (Provide supporting
Scirpus cyperinus / Woolgrass	10	No No	OBL	Problematic Hydrophytic Vegetation¹ (Explain)
	<u>10</u> 5			Problematic hydrophytic vegetation (Explain)
5. Fragaria vesca ssp. vesca / Woodland strawberry		No	FACU	and the state of t
				¹Indicators of hydric soil and wetland hydrology must
7.				be present, unless disturbed or problematic.
B				D. C. W
)				Definitions of Vegetation Strata
10				The second secon
1				Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
2				
	90	= Total Cov	/er	Sapling/shrub - Woody plants less than 3 in. DBH and
Noody Vine Stratum (Plot size: 30)		_		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.
<u> </u>				Woody vines - All woody vines greater than 3.28 ft in
). 				height.
r		Total Cov		
	0	_ = Total Cov	er	Hydrophytic
				Vegetation
				Present? YesX No

SOIL Sampling Point: WL006-1W

	Matrix			k Features			ice of indicators			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture		Remarks	
0-7	10YR 3/2	95	7.5YR 4/6	5	C	PL,M	Sandy loam			
7-18	7.5YR 4/2	95	7.5YR 4/4	5	C	М	Sandy loam			
								-		
					·					
				-						
				-						
				-						
				-						
	·				· ——					
			•	-						
			•	-						
					· ——			-		
vpe: C=Con	centration, D=Depletion,	RM=Red	duced Matrix. MS=Masl	ked Sand Gr	ains.		²Loca	tion: PL=Po	ore Lining, M=Matrix.	
			adood matrix, mo mao.							
ydric Soil Ir	ndicators:								ematic Hydric Soils ³ :	
Histosol	(A1)		Polyvalue Belov	v Surface (S	8) (LRR R,	MLRA 149	B) 2 cm	Muck (A10)) (LRR K, L, MLRA 14	19B)
Histic Ep	ipedon (A2)		Thin Dark Surfa	ce (S9) (LF	RR R, MLRA	(149B)	Coast	Prairie Re	dox (A16) (LRR K, L,	, R)
Black His	stic (A3)		Loamy Mucky N	lineral (F1)	(LRR K, L)		5 cm	Mucky Pea	t or Peat (S3) (LRR K	(, L, R)
Hydroger	n Sulfide (A4)		Loamy Gleyed I	Matrix (F2)			Dark	Surface (S7	7) (LRR K, L)	
Stratified	Layers (A5)		Depleted Matrix	(F3)			Polyv	alue Below	Surface (S8) (LRR K	(, L)
Depleted	Below Dark Surface (A1	11)	X Redox Dark Sur	face (F6)			Thin [Oark Surfac	ce (S9) (LRR K, L)	
Thick Da	rk Surface (A12)		Depleted Dark S	Surface (F7)			Iron-N	1anganese	Masses (F12) (LRR	K, L, R)
Sandy M	ucky Mineral (S1)		Redox Depress	ions (F8)			Piedm	ont Floodp	olain Soils (F19) (MLR	A 149B)
Sandy G	leyed Matrix (S4)						Mesic	Spodic (TA	A6) (MLRA 144A, 14	5, 149B)
Sandy R	edox (S5)						Red F	arent Mate	erial (F21)	
_	Matrix (S6)						_		rk Surface (TF12)	
	face (S7) (LRR R, MLR	RA 149B)							Remarks)	
_										
Indicators of	hydrophytic vegetation a	nd wetlar	nd hydrology must be p	resent, unle	ss disturbed	or problen	natic.			
Restrictive L	ayer (if observed):									
Type:							Hydric Soil P	resent?	Yes X No	
Type: Depth (inc	ches):									
Depth (inc	ches):									
	ches):									
Depth (inc	ches):									
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Depth (inc	ches):									
Depth (inc	ches):									

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site:	20139 M	arcy Nanocenter	City/0	County:	Oneida Cou	unty	Sampling Date:	04/28/2021
Applicant/Owner:		,	MVEDGE		Sta	ate: New York	Sampling Point:	WL007-1U
Investigator(s):		JK, KM	Secti	on, Township, Ra	nae:		Marcy	
Landform (hillslope, terra	ace etc).	· · · · · · · · · · · · · · · · · · ·		oncave, convex, r	_	None	Slope	(%): 0
Subregion (LRR or MLR				43.13143833	Long:	-75.240834		n: WGS 1984
Soil Map Unit Name:			Jdorthents, smoothed		Long	NWI classification		1. 1700 1904
Are climatic / hydrologic					/lf no	explain in Remark		
, ,			•					/ No
			significantly distu			cumstances" prese		NO
	_		naturally problem			in any answers in	•	
SUMMARY OF FIN	IDINGS - Atta	ach site map s	showing sampling	g point location	ons, transec	ts, important	teatures, etc.	
Hydrophytic Vegetation	on Present?	Yes	No X	Is the Sam	oled Area			
Hydric Soil Present?		Yes	No X	within a We	etland?	Yes	No X	
Wetland Hydrology Pr	resent?	Yes	No X	If yes, option	nal Wetland Site			_
Remarks: (Explain alt	ernative procedu	res here or in a se	parate report.)					
HYDROLOGY								
Wetland Hydrology I								
Primary Indicators (m	inimum of one re	equired; check all the	nat apply)				ators (minimum of t	wo required)
Surface Water (A	\1)	_	Water-Stained Leav	` '		Surface Soi	Cracks (B6)	
High Water Table	e (A2)	_	Aquatic Fauna (B13	3)		Drainage Pa	atterns (B10)	
Saturation (A3)		_	Marl Deposits (B15))		Moss Trim L	ines (B16)	
Water Marks (B1)	<u>_</u>	Hydrogen Sulfide O	dor (C1)		Dry-Season	Water Table (C2)	
Sediment Depos	its (B2)	<u></u>	Oxidized Rhizosphe	eres on Living Roo	ots (C3)	Crayfish Bu	rrows (C8)	
Drift Deposits (B	3)		Presence of Reduce	ed Iron (C4)		Saturation \	isible on Aerial Ima	agery (C9)
Algal Mat or Crus	st (B4)		Recent Iron Reducti	ion in Tilled Soils	(C6)		Stressed Plants (D1	
Iron Deposits (B		_	Thin Muck Surface	(C7)	` ,	Geomorphic	Position (D2)	•
Inundation Visible	•	erv (B7)	Other (Explain in Re			Shallow Aqu		
Sparsely Vegeta	-			,			aphic Relief (D4)	
		.000 (20)				FAC-Neutra		
Field Observations:								
Surface Water Preser	nt? Yes	s No X	Depth (inches):					
Water Table Present?	Yes	s No X	Depth (inches):					
		s No X	Depth (inches):		Wetland Hydr	ology Present?	Yes	No X
Saturation Present?	Yes		_ ' \ ' -	_	•	0,		
Saturation Present? (includes capillary frin								
(includes capillary frin	nge)	ge, monitoring well	l, aerial photos, previou	ıs inspections), if a	available:			
(includes capillary frin	nge)	ge, monitoring well	, aerial photos, previou	is inspections), if a	available:			
(includes capillary frin	nge)	ge, monitoring well	, aerial photos, previou	Is inspections), if a	available:			
(includes capillary frin	nge)	ge, monitoring well	, aerial photos, previou	Is inspections), if a	available:			
(includes capillary frin	nge)	ge, monitoring well	, aerial photos, previou	Is inspections), if a	available:			
(includes capillary frin	nge)	ge, monitoring well	, aerial photos, previou	is inspections), if a	available:			
(includes capillary frin	nge)	ge, monitoring well	, aerial photos, previou	is inspections), if a	available:			
(includes capillary frin	nge)	ge, monitoring well	, aerial photos, previou	is inspections), if a	available:			
(includes capillary frin	nge)	ge, monitoring well	, aerial photos, previou	is inspections), if a	available:			
(includes capillary frin	nge)	ge, monitoring well	l, aerial photos, previou	is inspections), if a	available:			
(includes capillary frin	nge)	ge, monitoring well	l, aerial photos, previou	is inspections), if a	available:			
(includes capillary frin	nge)	ge, monitoring well	l, aerial photos, previou	is inspections), if a	available:			
(includes capillary frin	nge)	ge, monitoring well	l, aerial photos, previou	is inspections), if a	available:			
(includes capillary frin	nge)	ge, monitoring well	l, aerial photos, previou	is inspections), if a	available:			
(includes capillary frin	nge)	ge, monitoring well	l, aerial photos, previou	is inspections), if a	available:			
(includes capillary frin	nge)	ge, monitoring well	l, aerial photos, previou	is inspections), if a	available:			
(includes capillary frin	nge)	ge, monitoring well	l, aerial photos, previou	is inspections), if a	available:			
(includes capillary frin	nge)	ge, monitoring well	l, aerial photos, previou	is inspections), if a	available:			
(includes capillary frin	nge)	ge, monitoring well	l, aerial photos, previou	is inspections), if a	available:			

SETATION - Use scientific names of plants.				Sampling Point: WL007-1U
				Dominance Test worksheet:
				Number of Dominant Species
				That Are OBL, FACW, or FAC: 3 (A)
	Absolute	Dominant	Indicator	
ee Stratum (Plot size:)	% Cover	Species?	Status	Total Number of Dominant
Populus tremuloides / Quaking aspen	70	Yes	FACU	Species Across All Strata: 8 (B)
Acer rubrum / Red maple	5	No	FAC	Species Across Air Strata.
				Percent of Dominant Species
				·
				That Are OBL, FACW, or FAC: 37.5 (A/B
				Prevalence Index worksheet:
			·	Total % Cover of: Multiply by:
	75	= Total Cov	er	OBL species 0 $x 1 = 0$
pling/Shrub Stratum (Plot size:15)		_		FACW species 15 x 2 = 30
Rhamnus cathartica / European buckthorn	20	Yes	FAC	FAC species 25 x 3 = 75
Cornus amomum / Silky dogwood	10	Yes	FACW	FACU species 90 x 4 = 360
Lonicera morrowii / Morrow's honeysuckle	10	Yes	FACU	UPL species 10 x 5 = 50
Rosa multiflora / Multiflora rose, Multiflora rosa	5	No	FACU	Column Totals: 140 (A) 515 (I
				COlumn Totals. 140 (A) 515 (
				Prevalence Index = B/A = 3.68
		= Total Cov		Hydrophytic Vegetation Indicators:
rb Stratum (Plot size: 8)		_ = 10141 55.	CI	1 - Rapid Test for Hydrophytic Vegetation
ro Stratum (Plot size: 8) Fragaria vesca ssp. vesca / Woodland strawberry	5	Vaq	FACU	2 - Dominance Test is >50%
· · · · · · · · · · · · · · · · · · ·	<u>5</u> 5	Yes Yes	FACO	
Pastinaca sativa / Wild parsnip	<u>5</u> 5	Yes Yes		3 - Prevalence Index ≤3.0¹
Onoclea sensibilis / Sensitive fern		Yes Yes	<u>FACW</u>	4 - Morphological Adaptations¹ (Provide supporting
Solidago / Goldenrod	5	Yes		Problematic Hydrophytic Vegetation¹ (Explain)
				¹Indicators of hydric soil and wetland hydrology must
				be present, unless disturbed or problematic.
				P. C. W. and of Managerian Chapter
				Definitions of Vegetation Strata
				Tree - Woody plants 3 in. (7.6 cm) or more in diameter at 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.
oody Vine Stratum (Plot size: 30)				
				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.
				Togat
	0	_ = Total Cov	er	Hydrophytic
				Vegetation
				Present? Yes No _X

SOIL Sampling Point: WL007-1U

Profile Desci Depth	ription: (Describe to the Matrix	ne depth need		ne indicator · Features	or confirm	the abser	nce of indicators	s.)		
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture		Remark	S
0-12	10YR 3/3	100	Color (molesy				Sandy silt loam			-
12-18	10YR 4/3	100					Sandy silt loam			
							canay one loan			
							·	-		
				_						
				_						
¹Type: C=Cor	ncentration, D=Depletio	n, RM=Reduc	ed Matrix, MS=Masl	ked Sand Gra	ains.		²Loca	tion: PL=P	ore Lining, M	=Matrix.
Hydric Soil II	ndicators:						Indicators	for Probl	ematic Hydri	c Soils³:
Histosol			Polyvalue Belov	v Surface (S8	3) (LRR R .	MLRA 149			-	MLRA 149B)
	pipedon (A2)	-	Thin Dark Surfa	•			· -		edox (A16) (I	•
		-				1430)) (LRR K, L, R)
Black His	n Sulfide (A4)	=	Loamy Mucky M Loamy Gleyed N		(=1X1X FX, L)					
		-							7) (LRR K, I	
	Layers (A5)	_	Depleted Matrix) (LRR K, L)
	Below Dark Surface (A		Redox Dark Sur						ce (S9) (LRF	
	ark Surface (A12)	_	Depleted Dark S					ū	•	2) (LRR K, L, R)
	lucky Mineral (S1)	=	Redox Depressi	ions (F8)						19) (MLRA 149B)
	leyed Matrix (S4)									144A, 145, 149B)
	edox (S5)								erial (F21)	
	Matrix (S6)								ark Surface (T	F12)
Dark Sui	face (S7) (LRR R, ML	.RA 149B)					Other	(Explain in	n Remarks)	
³ Indicators of	hydrophytic vegetation	and wetland h	nydrology must be p	resent, unles	s disturbed	or probler	natic.			
Postrictivo I	ayer (if observed):									
Type:	ah a a \						Usalaia Cail Di		Vaa	No. V
Depth (in	cnes):						Hydric Soil P	resent?	Yes	No <u>X</u>
Remarks:										

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site:	20139 Ma	rcy Nanocenter		City/Cou	nty:	Oneida Co	unty	Sampling Date:	04/28/2021
Applicant/Owner:			MVEDGE	•		Sta	ate: New York	Sampling Point:	WL007-1W
Investigator(s):		JK, KM		Section,	Township, Rar	nge:		Marcy	
Landform (hillslope, terra	ace, etc): Bo	wl shaped depres	sion Local r		ave, convex, n		Concave	Slope	e (%): 0-3
Subregion (LRR or MLR		R L MLRA 172		•	3.131579	-	-75.240946		m: WGS 1984
Soil Map Unit Name:	· -	U	Jdorthents, smoo	othed			NWI classification	on:	
Are climatic / hydrologic	conditions on the				X No	(If no,	– explain in Remark	(s.)	
Are Vegetation			•		d? A		cumstances" prese	•	X No
Are Vegetation						If needed, expla	ain any answers in	Remarks.)	
SUMMARY OF FIN							•		
Hydrophytic Vegetatio		Yes X			Is the Samp		,p 0. tu		
Hydric Soil Present?	iii icaciii:	Yes X	No	_	within a We		Yes X	No	
Wetland Hydrology Pr	esent?	Yes X	No	_		nal Wetland Site		W004 PFO	_
welland riyarology i i	CSCIII:				ii yes, optioi	iai vvetiana oit	, ID	W004110	
Remarks: (Explain alte Historica	ernative procedur Ily disturbed, pote		parate report.)						
HYDROLOGY									
Wetland Hydrology I	ndicators:								
Primary Indicators (mi		quired; check all th	hat apply)				Secondary Indica	ators (minimum of	two required)
Surface Water (A	.1)		Water-Staine	d Leaves ((B9)			l Cracks (B6)	
High Water Table	(A2)	_	Aquatic Faun	a (B13)			Drainage Pa	atterns (B10)	
Saturation (A3)		_	Marl Deposits	s (B15)			Moss Trim I	_ines (B16)	
Water Marks (B1)	_	Hydrogen Su	lfide Odor	(C1)		Dry-Season	Water Table (C2)	
Sediment Deposi	ts (B2)	_	Oxidized Rhi	zospheres	on Living Roo	ts (C3)	Crayfish Bu	rrows (C8)	
Drift Deposits (B3	3)	_	Presence of I	Reduced Ir	ron (C4)		Saturation \	/isible on Aerial Im	nagery (C9)
Algal Mat or Crus	st (B4)	_	_ Recent Iron F	Reduction i	in Tilled Soils (C6)	X Stunted or S	Stressed Plants (D	1)
Iron Deposits (B5	5)	_	_ Thin Muck Su	urface (C7))		Geomorphic	Position (D2)	
Inundation Visible	e on Aerial Image	ry (B7)	Other (Explai	n in Rema	rks)		Shallow Aq	uitard (D3)	
X Sparsely Vegetat	ed Concave Surf	ace (B8)						aphic Relief (D4)	
							X FAC-Neutra	Il Test (D5)	
Field Observations:									
Surface Water Presen	t? Yes	No X	Depth (inch	es):					
Water Table Present?		No X			-				
Saturation Present?	Yes	No X	_ · ·	· —	_	Wetland Hyd	rology Present?	Yes X	No
(includes capillary fring	ge)		_ · `	′ 	_	,	0,		
Describe Recorded Da	ata (stream gauge	e, monitoring well	, aerial photos, p	revious in	spections), if a	vailable:			
Remarks:									
rtomanto.									
Ī									

SOIL Sampling Point: WL007-1W

Depth	Matrix		Redox	k Features			nce of indicators	
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture	Remarks
0-5	10YR 4/2	90	10YR 5/8	10	С	М	Sandy clay loa	
5-18	10YR 4/2	60	7.5YR 5/8	5	С	М	Sand	
5-18	10YR 5/3	35	-				Sand	
· · · · · · · · · · · · · · · · · · ·			and Matrix MC-Mad	rad Cand Cr			21 000	ion, DI - Doro Lining, M-Motric
ype: C=Con	centration, D=Depletion	i, Rivi=Redi	iced Matrix, M5=Masi	Red Sand Gr	ams.		-Local	ion: PL=Pore Lining, M=Matrix.
dric Soil In	ndicators:						Indicators	for Problematic Hydric Soils ³ :
_ Histosol (•		Polyvalue Below	-				Muck (A10) (LRR K, L, MLRA 149B)
	ipedon (A2)		Thin Dark Surfa			149B)		Prairie Redox (A16) (LRR K, L, R)
Black His			Loamy Mucky M		LRR K, L)			Mucky Peat or Peat (S3) (LRR K, L, R)
	n Sulfide (A4)		Loamy Gleyed N					Surface (S7) (LRR K, L)
_	Layers (A5)		Depleted Matrix	` '				alue Below Surface (S8) (LRR K, L)
_	Below Dark Surface (A	A11)	Redox Dark Sur					Oark Surface (S9) (LRR K, L)
	rk Surface (A12)		Depleted Dark S					langanese Masses (F12) (LRR K, L, R
_	ucky Mineral (S1)		Redox Depressi	ions (F8)				iont Floodplain Soils (F19) (MLRA 149E
	leyed Matrix (S4)							Spodic (TA6) (MLRA 144A, 145, 149E
Sandy Re								arent Material (F21)
_	Matrix (S6)	DA 440D\						Shallow Dark Surface (TF12)
Dark Sur	face (S7) (LRR R, ML	RA 149B)					Other	(Explain in Remarks)
Indicators of	hydrophytic vegetation	and wetland	d hydrology must be p	resent, unles	s disturbed	or proble	natic.	
	, , , ,			•		<u> </u>		
	<i>(**</i> 1							
	ayer (if observed):							
Туре:							Hydric Soil Dr	rocont? Vos Y No
			<u> </u>				Hydric Soil Pr	resent? Yes X No
Type: Depth (inc							Hydric Soil Pr	resent? Yes X No
Type: Depth (inc							Hydric Soil Pr	resent? Yes X No
Type: Depth (inc							Hydric Soil Pr	resent? Yes <u>X</u> No
Type: Depth (inc							Hydric Soil Pr	resent? Yes <u>X</u> No
Type: Depth (inc							Hydric Soil Pr	resent? Yes X No
Type: Depth (inc							Hydric Soil Pr	resent? Yes X No
Type: Depth (inc							Hydric Soil Pr	resent? Yes X No
Type: Depth (inc							Hydric Soil Pr	resent? Yes <u>X</u> No
Type: Depth (inc							Hydric Soil Pr	resent? Yes <u>X</u> No
Type: Depth (inc							Hydric Soil Pr	resent? Yes <u>X</u> No
Type: Depth (inc							Hydric Soil Pr	resent? Yes X No
Type: Depth (inc							Hydric Soil Pr	resent? Yes X No
Type: Depth (inc							Hydric Soil Pr	resent? Yes X No
Type: Depth (inc							Hydric Soil Pr	resent? Yes X No
Type: Depth (inc							Hydric Soil Pr	resent? Yes X No
Type: Depth (inc							Hydric Soil Pr	resent? Yes X No
Type:							Hydric Soil Pr	resent? Yes X No
Type: Depth (inc							Hydric Soil Pr	resent? Yes X No
Type: Depth (inc							Hydric Soil Pr	resent? Yes X No
Type: Depth (inc							Hydric Soil Pr	resent? Yes X No
Type: Depth (inc							Hydric Soil Pr	resent? Yes X No
Type: Depth (inc							Hydric Soil Pr	resent? Yes X No
Type: Depth (inc							Hydric Soil Pr	resent? Yes X No

Project	20139 Marcy Nanocenter Wetland Delineation
ID	146262
Survey Date	04/27/2021
User	Joseph Knight
Town/County/State	Town to Volney, Otsego County
Investigator(s)	JK, KM
Stream Delineation ID	ST004
Latitude, Longitude	43.13043867,-75.24015083
Latitude	43.13043867
Longitude	-75.24015083
Datum	NAD83/2011
Accuracy	0.0 m
Current Precipitation	None
Precipitation in Past 48 Hours	None
General Characteristics	
NYSDEC Mapped Stream	No, but connects to mapped stream
NYSDEC mapped Classification	Connects to ST003, which is Class C
Drainage Ditch	No
Surface Water Depth at Thalweg (Inches)	0
Stream Gradient	Gentle (0-5%)
Substrate	Silt/Clay (No grit)
OHWM width for stream reach (feet)	1-3
Geomorphology	
Continuity of channel bed and bank	Weak (1)
Sinuosity of channel along thalweg	Absent (0)
In Channel Structures	Absent (0)
Particle Size of Stream Substrate	Weak (1)
Active/Relic Floodplain	Absent (0)

Depositional Bars or Benches	Absent (0)
Recent Alluvial Deposits	Absent (0)
Are Headcuts present	Absent (0)
Grade Control	Absent (0)
Natural Valley	Weak (0.5)
Second or Greater Order Channel	No (0)

Hydrology	
Presence of Baseflow	Absent (0)
Iron Oxidizing Bacteria	Weak (1)
Leaf Litter	Strong (0)
Sediment on Plants or Debris	Absent (0)
Organic Debris Lines or Piles	Absent (0)
Soil-based evidence of high water table	No (0)

Biology	
Fibrous Roots in Streambed	Moderate (1)
Rooted Upland Plants in Streambed	Weak (2)
Aquatic Macroinvertebrates	Absent (0)
Aquatic Mollusks	Absent (0)
Fish	Absent (0)
Crayfish	Absent (0)
Amphibians	Absent (0)
Algae	Absent (0)
Wetland Plants in Streambed	Other (0)

Stream Type Determination	1
Total Score	6.5
Stream Determination	Ephemeral (<19)

Photos and Notes

Notes

20139 Marcy Nanocento	er Stream Scoring Form 1
Project	20139 Marcy Nanocenter Wetland Delineation
ID	146263
Survey Date	04/27/2021
User	Joseph Knight
Town/County/State	Town to Volney, Otsego County
Investigator(s)	JK, KM
Stream Delineation ID	ST003
Latitude, Longitude	43.13106400,-75.23919483
Latitude	43.131064
Longitude	-75.23919483
Datum	NAD83/2011
Accuracy	0.0 m
Current Precipitation	None
Precipitation in Past 48 Hours	None
General Characteristics	
NYSDEC Mapped Stream	Yes
NYSDEC mapped Classification	Class C
Drainage Ditch	No
Surface Water Depth at Thalweg (Inches)	14
Stream Gradient	Gentle (0-5%)
Substrate	Boulder, Cobble, Gravel, Sand (Gritty feel), Silt/Clay (No grit)
OHWM width for stream reach (feet)	10-30
Geomorphology	
Continuity of channel bed and bank	Strong (3)
Sinuosity of channel along thalweg	Moderate (2)
In Channel Structures	Moderate (2)
Particle Size of Stream Substrate	Strong (3)
Active/Relic Floodplain	Strong (3)
Depositional Bars or Benches	Strong (3)
Recent Alluvial Deposits	Weak (1)
Are Headcuts present	Absent (0)
Grade Control	Strong (1.5)
Natural Valley	Weak (0.5)



Second or Greater Order	Yes (3)
Channel	

Hydrology	
Presence of Baseflow	Strong (3)
Iron Oxidizing Bacteria	Strong (3)
Leaf Litter	Absent (1.5)
Sediment on Plants or Debris	Moderate (1)
Organic Debris Lines or Piles	Moderate (1)
Soil-based evidence of high water table	Yes (3)

Biology	
Fibrous Roots in Streambed	Absent (3)
Rooted Upland Plants in Streambed	Absent (3)
Aquatic Macroinvertebrates	Moderate (2)
Aquatic Mollusks	Weak (1)
Fish	Weak (0.5)
Crayfish	Weak (0.5)
Amphibians	Weak (0.5)
Algae	Moderate (1)
Wetland Plants in Streambed	Other (0)

Stream Type Determination	
Total Score	46
Stream Determination	Perennial (≥30)

Photos and Notes Notes

Project	20139 Marcy Nanocenter Wetland Delineation
ID	146262
Survey Date	04/27/2021
User	Joseph Knight
Town/County/State	Town to Volney, Otsego County
Investigator(s)	JK, KM
Stream Delineation ID	ST002
Latitude, Longitude	43.13043867,-75.24015083
Latitude	43.13043867
Longitude	-75.24015083
Datum	NAD83/2011
Accuracy	0.0 m
Current Precipitation	None
Precipitation in Past 48 Hours	None
General Characteristics	
NYSDEC Mapped Stream	No, but connects to mapped stream
NYSDEC mapped Classification	Verify
Drainage Ditch	No
Surface Water Depth at Thalweg (Inches)	0
Stream Gradient	Gentle (0-5%)
Substrate	Silt/Clay (No grit)
OHWM width for stream reach (feet)	1-3
Geomorphology	
Continuity of channel bed and bank	Weak (1)
Sinuosity of channel along thalweg	Absent (0)
In Channel Structures	Absent (0)
Particle Size of Stream Substrate	Weak (1)
Active/Relic Floodplain	Absent (0)

Depositional Bars or Benches	Absent (0)
Recent Alluvial Deposits	Absent (0)
Are Headcuts present	Absent (0)
Grade Control	Absent (0)
Natural Valley	Weak (0.5)
Second or Greater Order Channel	No (0)

Hydrology	
Presence of Baseflow	Absent (0)
Iron Oxidizing Bacteria	Weak (1)
Leaf Litter	Strong (0)
Sediment on Plants or Debris	Absent (0)
Organic Debris Lines or Piles	Absent (0)
Soil-based evidence of high water table	No (0)

Biology	
Fibrous Roots in Streambed	Moderate (1)
Rooted Upland Plants in Streambed	Weak (2)
Aquatic Macroinvertebrates	Absent (0)
Aquatic Mollusks	Absent (0)
Fish	Absent (0)
Crayfish	Absent (0)
Amphibians	Absent (0)
Algae	Absent (0)
Wetland Plants in Streambed	Other (0)

Stream Type Determination	1
Total Score	6.5
Stream Determination	Ephemeral (<19)

Photos and Notes

Notes

20139 Marcy Nanocento	er Stream Scoring Form 1
Project	20139 Marcy Nanocenter Wetland Delineation
ID	146263
Survey Date	04/27/2021
User	Joseph Knight
Town/County/State	Town to Volney, Otsego County
Investigator(s)	JK, KM
Stream Delineation ID	ST001
Latitude, Longitude	43.13106400,-75.23919483
Latitude	43.131064
Longitude	-75.23919483
Datum	NAD83/2011
Accuracy	0.0 m
Current Precipitation	None
Precipitation in Past 48 Hours	None
General Characteristics	
NYSDEC Mapped Stream	Yes
NYSDEC mapped Classification	Verify
Drainage Ditch	No
Surface Water Depth at Thalweg (Inches)	14
Stream Gradient	Gentle (0-5%)
Substrate	Boulder, Cobble, Gravel, Sand (Gritty feel), Silt/Clay (No grit)
OHWM width for stream reach (feet)	10-30
Geomorphology	
Continuity of channel bed and bank	Strong (3)
Sinuosity of channel along thalweg	Moderate (2)
In Channel Structures	Moderate (2)
Particle Size of Stream Substrate	Strong (3)
Active/Relic Floodplain	Strong (3)
Depositional Bars or Benches	Strong (3)
Recent Alluvial Deposits	Weak (1)
Are Headcuts present	Absent (0)
Grade Control	Strong (1.5)
Natural Valley	Weak (0.5)



Second or Greater Order	Yes (3)
Channel	

Hydrology	
Presence of Baseflow	Strong (3)
Iron Oxidizing Bacteria	Strong (3)
Leaf Litter	Absent (1.5)
Sediment on Plants or Debris	Moderate (1)
Organic Debris Lines or Piles	Moderate (1)
Soil-based evidence of high water table	Yes (3)

Biology	
Fibrous Roots in Streambed	Absent (3)
Rooted Upland Plants in Streambed	Absent (3)
Aquatic Macroinvertebrates	Moderate (2)
Aquatic Mollusks	Weak (1)
Fish	Weak (0.5)
Crayfish	Weak (0.5)
Amphibians	Weak (0.5)
Algae	Moderate (1)
Wetland Plants in Streambed	Other (0)

Stream Type Determination	
Total Score	46
Stream Determination	Perennial (≥30)

Photos and Notes Notes

EDR Stream Determination Data Form

Project Name: M	arcy Nan	ocenter Parkway I	<u>Mixed-Use I</u>	<u>Master</u>	<u>Plan</u> Project Nur	nber: <u>201</u>	<u>369</u>		
Survey Date: No	vember 5	<u>5, 2020</u>							
Evaluators: Rach	nael Mille	r, Courtney Scoles	s, and Samu	uel Gord	<u>don</u>				
Stream ID: ST00	<u>1</u>	Data Point ID:							
Town: Town of M	<u>larcy</u>	County: Oneida State: New York							
Latitude: <u>43.132</u>	92	Longitude: <u>-75.24217</u>							
NYSDEC Classif	ication:	Yes□	Yes ☐ No but Connects to Class ☐ Unclassified ☒						
NYSDEC Stream	n ID: <u>N/A</u>								
Previous Weathe	er:	Snow \square	Heavy Ra	in 🗆	Rain □	None ⊠	Unknown □		
Adjacent Landco	ver: <u>mair</u>	ntained lawn							
Ecological Comn	nunities: <u>l</u>	N/A							
			Hydrologic	c Char	acteristics				
Perceptible Flow	?	Yes □	No ⊠						
Flow Regime: R1-Tidal □ R3-Upper Perennia R5-Unknown Pere									
Flow Direction: N	<u> </u>								
Surface Water P	resent:	Yes □	No ⊠						
Surface Water D	epth at T	halweg: <u>N/A inche</u>	<u>s</u>						
Wetted (Stream)	Width: N	/A feet							
		Ge	eomorpholo	ogic Cl	naracteristics				
Gradient:	Gentle ((0-5 %) 🖂	N	/loderat	te (6-11 %) 🗆	Steep (>	•12 %) □		
Substrate:	Silt/Clay (<0.062 mm) \boxtimes Sand (0.062–2 mm) \square Gravel (2-64 mm) \boxtimes					Gravel (2-64 mm) ⊠			
	Cobble (64-256 mm) ☐ Boulder (256-4096 mm) ☐ Bedrock (>4096 r				Bedrock (>4096 mm) □				
Bankful Width:									
Bank Height:	0.5-2 fe	•							

Stream Conditions						
Undercut Banks:	Yes□	No⊠	Description:			
Overhanging Vegetation:	Yes⊠	No□	Description: channel filled with vegetation			
Deep Pools Present:	Yes□	No⊠	Description:			
Coarse Woody Debris:	Yes□	No⊠	Description:			
Channel Alteration:	Channe	lization ∑	☐ Channel Armoring ☐ Impoundment ☐ Other:			
Is the stream a Drainage I	Ditch:	Yes ⊠	No □			
			Additional Notes			

EDR Stream Determination Data Form

Project Name: M	larcy Nan	ocenter Parkway N	Mixed-Use	<u>Master</u>	<u>Plan</u> Project Nun	nber: <u>201</u>	<u>369</u>		
Survey Date: <u>No</u>	vember 5	<u>, 2020</u>							
Evaluators: Rach	nael Miller	Courtney Scoles	, and Sam	nuel Gor	<u>don</u>				
Stream ID: ST00	<u>12</u>	Data Point ID:							
Town: Town of M	<u>larcy</u>	County: Oneida State: New York							
Latitude: 43.132	<u> 221</u>	Longitude: <u>-75.24173</u>							
NYSDEC Classif	fication:	Yes□ No but Connects to Class □ Unclassified ⊠							
NYSDEC Stream	n ID: <u>N/A</u>								
Previous Weathe	er:	Snow \square	Heavy R	ain 🗆	Rain □	None ⊠	Unknown		
Adjacent Landco	ver: <u>main</u>	tained lawn							
Ecological Comn	nunities: <u>N</u>	<u> </u>							
			Hydrolog	jic Char	acteristics				
Perceptible Flow? Yes □		Yes □	No ⊠						
Flow Regime: R1-Tidal □ R3-Upper Perennial □ R5-Unknown Perennia				R2-Lower Perennial □ R4-Intermittent □ R6-Ephemeral ⊠					
Flow Direction: N	<u> </u>								
		No ⊠							
Surface Water D	epth at Ti	nalweg: <u>N/A inche</u>	<u>s</u>						
Wetted (Stream)	Width: N	/A feet	_						
		Ge	omorpho	logic Ch	naracteristics				
Gradient:	Gentle (0-5 %) ⊠ Moderate (6-11 %) □ Steep (>12 %) □								
Substrate:	Silt/Clay (<0.062 mm) \boxtimes Sand (0.062–2 mm) \square Gravel (2-64 mm) \boxtimes						\boxtimes		
				Bedrock (>4096 mi	m) 🗆				
Bankful Width:									
Bank Height:	<u>0.5-2 feet</u>								

Stream Conditions						
Undercut Banks:	Yes□	No⊠	Description:			
Overhanging Vegetation:	Yes⊠	No□	Description: channel filled with vegetation			
Deep Pools Present:	Yes□	No⊠	Description:			
Coarse Woody Debris:	Yes□	No⊠	Description:			
Channel Alteration:	Channe	lization ∑	☐ Channel Armoring ☐ Impoundment ☐ Other:			
Is the stream a Drainage I	Ditch:	Yes ⊠	No □			
			Additional Notes			

APPENDIX C

Photo Documentation



Viewpoint 1

Wetland 001 Open Water Wetland



Viewpoint 2

Wetland 001 Open Water Wetland

Marcy Nanocenter Parkway Mixed-Use Master Plan

Town of Marcy, Oneida County, New York

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Viewpoint 3

Wetland 002 Open Water Wetland



Viewpoint 4

Wetland 002 Open Water Wetland

Marcy Nanocenter Parkway Mixed-Use Master Plan Town of Marcy, Oneida County, New York

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Viewpoint 5

Wetland 003 Palustrine Emergent Wetland with Trees along Wetland Boundary



Viewpoint 6

Wetland 003 Palustrine Emergent Wetland

Marcy Nanocenter Parkway Mixed-Use Master Plan

Town of Marcy, Oneida County, New York

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Viewpoint 7

Wetland 004 Palustrine Forested Wetland



Viewpoint 8

Wetland 005 Palustrine **Emergent Wetland**

Marcy Nanocenter Parkway Mixed-Use Master Plan Town of Marcy, Oneida County, New York

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Viewpoint 9

Wetland 005 Palustrine Forested Wetland



Viewpoint 10

Wetland 006 Palustrine Emergent Wetland

Marcy Nanocenter Parkway Mixed-Use Master Plan

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Viewpoint 11

Wetland 007 Palustrine Forested Wetland



Viewpoint 12

Ephemeral Stream 001

Marcy Nanocenter Parkway Mixed-Use Master Plan Town of Marcy, Oneida County, New York

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Viewpoint 13

Ephemeral Stream 002



Viewpoint 14

Ephemeral Stream 002

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Appendix C: Photo Documentation

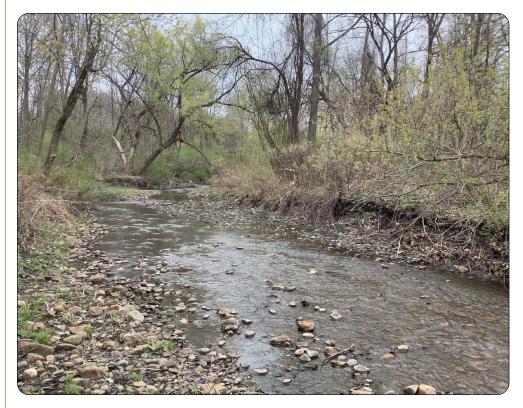
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Viewpoint 15

Ephemeral Stream 002 and Conveyance Pipe



Viewpoint 16

Upper Perennial Stream 003

Marcy Nanocenter Parkway Mixed-Use Master Plan Town of Marcy, Oneida County, New York

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Viewpoint 17

Upper Perennial Stream 003



Viewpoint 18

Ephemeral Stream 004

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Viewpoint 19

Representative Forested . Upland



Viewpoint 20

Representative Grassland . Upland

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