APPENDIX E NATURAL RESOURCES

IPaC Trust Resources Report

U.S. Fish & Wildlife Service

Stony Lodge

IPaC Trust Resources Report

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This report is for informational purposes only and should not be used for planning or analyzing project level impacts. For project reviews that require U.S. Fish & Wildlife Service review or concurrence, please return to the IPaC website and request an official species list from the Regulatory Documents page.



IPaC - Information for Planning and Conservation (<u>https://ecos.fws.gov/ipac/</u>): A project planning tool to help streamline the U.S. Fish & Wildlife Service environmental review process.

Table of Contents

PaC Trust Resources Report	1
Project Description	<u>1</u>
Endangered Species	2
Migratory Birds	<u>3</u>
Refuges & Hatcheries	<u>6</u>
Wetlands	<u>7</u>

U.S. Fish & Wildlife Service IPaC Trust Resources Report



NAME

Stony Lodge

LOCATION

Westchester County, New York

IPAC LINK https://ecos.fws.gov/ipac/project/ ZYGDL-ZADEF-CM7PA-X4FC6-EWZVYQ



U.S. Fish & Wildlife Service Contact Information

Trust resources in this location are managed by:

Long Island Ecological Services Field Office

340 Smith Road Shirley, NY 11967 (631) 286-0485

New York Ecological Services Field Office

3817 Luker Road Cortland, NY 13045-9349 (607) 753-9334

Endangered Species

Proposed, candidate, threatened, and endangered species are managed by the <u>Endangered Species Program</u> of the U.S. Fish & Wildlife Service.

This USFWS trust resource report is for informational purposes only and should not be used for planning or analyzing project level impacts.

For project evaluations that require USFWS concurrence/review, please return to the IPaC website and request an official species list from the Regulatory Documents section.

<u>Section 7</u> of the Endangered Species Act **requires** Federal agencies to "request of the Secretary information whether any species which is listed or proposed to be listed may be present in the area of such proposed action" for any project that is conducted, permitted, funded, or licensed by any Federal agency.

A letter from the local office and a species list which fulfills this requirement can only be obtained by requesting an official species list either from the Regulatory Documents section in IPaC or from the local field office directly.

There are no endangered species in this location

Critical Habitats There are no critical habitats in this location

Migratory Birds

Birds are protected by the <u>Migratory Bird Treaty Act</u> and the <u>Bald and Golden Eagle</u> <u>Protection Act</u>.

Any activity that results in the take of migratory birds or eagles is prohibited unless authorized by the U.S. Fish & Wildlife Service.^[1] There are no provisions for allowing the take of migratory birds that are unintentionally killed or injured.

Any person or organization who plans or conducts activities that may result in the take of migratory birds is responsible for complying with the appropriate regulations and implementing appropriate conservation measures.

1. 50 C.F.R. Sec. 10.12 and 16 U.S.C. Sec. 668(a)

Additional information can be found using the following links:

- Birds of Conservation Concern <u>http://www.fws.gov/birds/management/managed-species/</u> <u>birds-of-conservation-concern.php</u>
- Conservation measures for birds <u>http://www.fws.gov/birds/management/project-assessment-tools-and-guidance/</u> <u>conservation-measures.php</u>
- Year-round bird occurrence data <u>http://www.birdscanada.org/birdmon/default/datasummaries.jsp</u>

The following species of migratory birds could potentially be affected by activities in this location:

American Bittern Botaurus lentiginosus On Land Season: Breeding http://ecos.fws.gov/tess_public/profile/speciesProfile.action?spcode=B0F3	Bird of conservation concern
Bald Eagle Haliaeetus leucocephalus On Land Season: Year-round http://ecos.fws.gov/tess_public/profile/speciesProfile.action?spcode=B008	Bird of conservation concern
Black-billed Cuckoo Coccyzus erythropthalmus On Land Season: Breeding http://ecos.fws.gov/tess_public/profile/speciesProfile.action?spcode=B0HI	Bird of conservation concern
Blue-winged Warbler Vermivora pinus On Land Season: Breeding	Bird of conservation concern
Canada Warbler Wilsonia canadensis On Land Season: Breeding	Bird of conservation concern

Cerulean Warbler Dendroica cerulea On Land Season: Breeding http://ecos.fws.gov/tess_public/profile/speciesProfile.action?spcode=B09I	Bird of conservation concern
Fox Sparrow Passerella iliaca On Land Season: Wintering	Bird of conservation concern
Golden-winged Warbler Vermivora chrysoptera On Land Season: Breeding http://ecos.fws.gov/tess_public/profile/speciesProfile.action?spcode=B0G4	Bird of conservation concern
Hudsonian Godwit Limosa haemastica At Sea Season: Migrating	Bird of conservation concern
Kentucky Warbler Oporornis formosus On Land Season: Breeding Least Bittern Ixobrychus exilis On Land Season: Breeding http://ecos.fws.gov/tess_public/profile/speciesProfile.action?spcode=B092	Bird of conservation concern
Olive-sided Flycatcher Contopus cooperi On Land Season: Breeding http://ecos.fws.gov/tess_public/profile/speciesProfile.action?spcode=B0AN	Bird of conservation concern
Peregrine Falcon Falco peregrinus On Land Season: Breeding http://ecos.fws.gov/tess_public/profile/speciesProfile.action?spcode=B0FU	Bird of conservation concern
Pied-billed Grebe Podilymbus podiceps On Land Season: Year-round	Bird of conservation concern
Prairie Warbler Dendroica discolor On Land Season: Breeding	Bird of conservation concern
Purple Sandpiper Calidris maritima On Land Season: Wintering	Bird of conservation concern
Rusty Blackbird Euphagus carolinus On Land Season: Wintering	Bird of conservation concern
Short-eared Owl Asio flammeus On Land Season: Wintering http://ecos.fws.gov/tess_public/profile/speciesProfile.action?spcode=B0HD	Bird of conservation concern
Snowy Egret Egretta thula On Land Season: Breeding	Bird of conservation concern
Upland Sandpiper Bartramia longicauda On Land Season: Breeding http://ecos.fws.gov/tess_public/profile/speciesProfile.action?spcode=B0HC	Bird of conservation concern
Willow Flycatcher Empidonax traillii On Land Season: Breeding http://ecos.fws.gov/tess_public/profile/speciesProfile.action?spcode=B0F6	Bird of conservation concern

Wood Thrush Hylocichla mustelina
 On Land Season: Breeding
 Worm Eating Warbler Helmitheros vermivorum
 On Land Season: Breeding

Bird of conservation concern

Bird of conservation concern

Wildlife refuges and fish hatcheries

There are no refuges or fish hatcheries in this location

Wetlands in the National Wetlands Inventory

Impacts to <u>NWI wetlands</u> and other aquatic habitats may be subject to regulation under Section 404 of the Clean Water Act, or other State/Federal statutes.

For more information please contact the Regulatory Program of the local <u>U.S. Army</u> <u>Corps of Engineers District</u>.

DATA LIMITATIONS

The Service's objective of mapping wetlands and deepwater habitats is to produce reconnaissance level information on the location, type and size of these resources. The maps are prepared from the analysis of high altitude imagery. Wetlands are identified based on vegetation, visible hydrology and geography. A margin of error is inherent in the use of imagery; thus, detailed on-the-ground inspection of any particular site may result in revision of the wetland boundaries or classification established through image analysis.

The accuracy of image interpretation depends on the quality of the imagery, the experience of the image analysts, the amount and quality of the collateral data and the amount of ground truth verification work conducted. Metadata should be consulted to determine the date of the source imagery used and any mapping problems.

Wetlands or other mapped features may have changed since the date of the imagery or field work. There may be occasional differences in polygon boundaries or classifications between the information depicted on the map and the actual conditions on site.

DATA EXCLUSIONS

Certain wetland habitats are excluded from the National mapping program because of the limitations of aerial imagery as the primary data source used to detect wetlands. These habitats include seagrasses or submerged aquatic vegetation that are found in the intertidal and subtidal zones of estuaries and nearshore coastal waters. Some deepwater reef communities (coral or tuberficid worm reefs) have also been excluded from the inventory. These habitats, because of their depth, go undetected by aerial imagery.

DATA PRECAUTIONS

Federal, state, and local regulatory agencies with jurisdiction over wetlands may define and describe wetlands in a different manner than that used in this inventory. There is no attempt, in either the design or products of this inventory, to define the limits of proprietary jurisdiction of any Federal, state, or local government or to establish the geographical scope of the regulatory programs of government agencies. Persons intending to engage in activities involving modifications within or adjacent to wetland areas should seek the advice of appropriate federal, state, or local agencies concerning specified agency regulatory programs and proprietary jurisdictions that may affect such activities.

There are no wetlands in this location

Natural Heritage Program

New York State Department of Environmental Conservation Division of Fish, Wildlife & Marine Resources New York Natural Heritage Program 625 Broadway, 5th Floor, Albany, New York 12233-4757 Phone: (518) 402-8935 • Fax: (518) 402-8925 Website: www.dec.ny.gov



November 14, 2016

James Nash AKRF, Inc. 34 South Broadway, Suite 401 White Plains, NY 10601

Re: River Knoll - residential development Town/City: Ossining.

County: Westchester.

Dear James Nash:

In response to your recent request, we have reviewed the New York Natural Heritage Program database with respect to the above project.

We have no records of rare or state-listed animals or plants, or significant natural communities at your site or in its immediate vicinity.

The absence of data does not necessarily mean that rare or state-listed species, significant natural communities, or other significant habitats do not exist on or adjacent to the proposed site. Rather, our files currently do not contain information that indicates their presence. For most sites, comprehensive field surveys have not been conducted. We cannot provide a definitive statement on the presence or absence of all rare or state-listed species or significant natural communities. Depending on the nature of the project and the conditions at the project site, further information from on-site surveys or other resources may be required to fully assess impacts on biological resources.

This response applies only to known occurrences of rare or state-listed animals and plants, significant natural communities, and other significant habitats maintained in the Natural Heritage database. Your project may require additional review or permits; for information regarding other permits that may be required under state law for regulated areas or activities (e.g., regulated wetlands), please contact the appropriate NYS DEC Regional Office, Division of Environmental Permits, as listed at www.dec.ny.gov/about/39381.html.

Sincerely,

andrea Chaloux

Andrea Chaloux Environmental Review Specialist New York Natural Heritage Program

Wetland Delineation



Environmental and Planning Consultants

440 Park Avenue South 7th Floor New York, NY 10016 tel: 212 696-0670 fax: 212 213-3191 www.akrf.com

Memorandum

To:	Glenco Ossining, LLC
From:	Jesse Moore, Sarah Bray (AKRF)
Date:	September 17, 2015; rev 5.4.17
Re:	River Knoll – Ossining, NY – Wetland Delineation Report and Functional Assessment
cc:	Nannette Bourne, Jim Nash (AKRF)

A. WETLAND DELINEATION (9.17.15)

INTRODUCTION

Glenco Ossining, LLC is evaluating the Stony Lodge Hospital property in Ossining, New York, as the future location of four (4) multi-family residential buildings (see **Figure 1**). AKRF delineated wetlands on the project site on September 14, 2015 to identify wetland areas with the potential to be regulated by the US Army Corps of Engineers (USACE) as waters of the US, and their boundaries. This memorandum outlines the details of the wetland delineation.

The wetland was reexamined in on April 21 2017 to document wetland hydrology conditions for the purpose of completing a functional assessment.

METHODOLOGY

Prior to the wetlands investigation, the New York State Department of Environmental Conservation (NYSDEC) and United States Fish and Wildlife Service (USFWS) National Wetlands Inventory (NWI) maps were reviewed to determine locations of state-mapped or NWI-mapped wetlands on and in the vicinity of the project site. The Natural Resources Conservation Service (NRCS) soils maps were also reviewed to determine soil types within the project site, particularly with respect to soil series identified as hydric soils. An AKRF wetland scientist conducted a wetland delineation of the project on September 14, 2015, using the United States Army Corps of Engineers (USACE) wetland delineation methodology.¹ Methodology pertaining to the three USACE wetland indicators (i.e., hydrology, soils, and hydrophytic

¹ Environmental Laboratory. 1987. "Corps of Engineers Wetlands Delineation Manual," Technical Report Y-87-1, US Army Engineer Waterways Experiment Station, Vicksburg, Miss; U.S. Army Corps of Engineers. 2011. Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Northcentral and Northeast Region (version 2.0), ed. J.S. Wakeley, R.W. Lichvar, C.V. Noble, and J.F. Berkowitz. ERDC/EL TR-12-1. Vicksburg, MS: U.S. Army Engineer Research and Development Center.

vegetation) is described below. The USACE "Wetland Determination Data Form – Northcentral and Northeast Region" (2012) was used to document the wetlands observed on the project site, and photographs were taken of observed wetland areas.

HYDROLOGY AND SOILS

The hydrology of the site was characterized using aerial photographs, site observations, and an auger to determine soil saturation and/or a high water table. Soils were characterized with the use of an auger and a Munsell Soil Color Chart. During the wetlands assessment, both hydrology and soils observations were made during a period of dry weather.

VEGETATION

The USACE Northcentral and Northeast 2014 Regional Wetland Plant List was used to determine the wetland/upland status of the plant identified on the project site. Percent cover was documented in the tree, vine, shrub, and herbaceous strata. A 30-foot (ft) radius plot was established to document percent cover of the tree and vine strata. Within this 30-ft plot, a 15-ft radius plot was established for the measurement of shrubs and saplings. For species in the herbaceous stratum, five 3.28-ft by 3.28-ft square plots were sampled within the 30-ft tree and vine plot and averaged together.

EXISTING CONDITIONS

MAPPING

National Wetlands Inventory-Mapped Wetlands

There are no NWI-mapped wetlands within the Stony Lodge Hospital property (see Figure 1).

New York State Department of Environmental Conservation-Mapped Wetlands

There are no NYSDEC-mapped freshwater wetlands within the Stony Lodge Hospital property (see Figure 2).

Natural Resources Conservation Service -Mapped Soils

Within the Stony Lodge Hospital property soils are mapped as "ChE – Charlton loam, 25 to 35 percent slopes," "CrC – Charlton-Chatfield complex, rolling, very rocky," "CsD – Chatfield-Charlton complex, hilly, very rocky," "HrF – Hollis-Rock outcrop complex, very steep," and "LcB – Leicester loam, 3 to 8 percent slopes, stony" by NRCS. The NRCS lists one of the series mapped for the Stony Lodge Hospital property as hydric: LcB – Leicester loam, 3 to 8 percent slopes, stony, one of the three parameters that determine whether an area falls under USACE jurisdiction as a wetland.

ONSITE DELINEATION

One wetland (A) was delineated on September 14, 2015 on the Stony Lodge Hospital property (see Figure 3).

Wetland A

Wetland A is a relatively small depressional freshwater wetland located along the northeastern boundary of the Stony Lodge Hospital property, at the toe of a slope. It is vegetated with a mixture of herbaceous species (see **Figure 5a**). The soils, hydrology, and hydrophytic vegetation of Wetland A were documented by sampling point "Wetland A", and are described below.

The Data Form for Wetland A depicts the dominant species associated with this sampling point. The species is sweet flag (*Acorus calamus*) (OBL) found in the herbaceous layer.

Soils of this wetland meet the criteria of "F6 Redox Dark Surface." The primary hydrology indicators are "A3 Saturation," which occurs starting at a depth of 0 inches, and "C3 Oxidized Rhizospheres on Living Roots" and the secondary hydrology indicator is "D2 Geomorphic Position," since the elevation of the wetland was in a depression compared to the surrounding area (see Data Form Wetland A).

Upland A

The upland area is located to the west and up-slope from Wetland A. The dominant species associated with the upland area include black locust (*Robinia pseudoacacia*) (FACU), in the tree layer, black walnut (*Juglans nigra*) (FACU) and multiflora rose (*Rosa multiflora*) (FACU) in the sapling/shrub layer, Japanese stiltgrass (*Microstegium vimineum*) (FAC) in the herb layer, and porcelainberry (*Ampelopsis brevipedunculata*) (UPL) in both the herb and woody vine layer. The vegetation, soils, and hydrology of this area do not meet the USACE criteria for a wetland. For these reasons, this area was documented as upland (see Data Form for Upland A).

The uplands throughout the rest of the Stony Lodge Hospital property would be best described according to Edinger et al. (2014) as mowed lawn² and successional southern hardwoods³ ecological communities. The mowed lawn community is dominated by Kentucky bluegrass (*Poa pratensis*), crabgrass (*Digitaria* sp), common plantain (*Plantago major*), English plantain (*Plantago lanceolata*), and red clover (*Trifolium pratense*) in the herbaceous layer. The successional southern hardwoods community is dominated by Norway maple (*Acer platanoides*), black locust, and black walnut in the tree layer; multiflora rose and black locust in the shrub layer; porcelainberry and Asiatic bittersweet (*Celastrus orbiculatus*) in the vine layer; and Japanese stiltgrass and goldenrods (*Solidago* spp) in the herbaceous layer.

SUMMARY

As described above, one vegetated depressional freshwater wetland (A) was identified, as per the USACE wetland delineation methodology, within the Stony Lodge Hospital property. This wetland would be expected to be under the jurisdiction of the USACE. Any disturbance to this wetland would be expected to require Section 401 and 404 permits. Wetland A would require a Jurisdictional Determination site inspection from the USACE to make the determination. AKRF will coordinate with USACE to facilitate the necessary site inspection. Once the wetland/waters boundaries are confirmed by the USACE, they are valid for a period of five (5) years. As federal wetlands only, the USACE and NYSDEC do not regulate a 100 foot adjacent area (buffer) around them.

REGULATORY DISCUSSION

FEDERAL WETLANDS

The onsite wetlands delineated by AKRF meet the definition of "wetlands": "those areas that are inundated or saturated by surface or ground water (hydrology) at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation (hydrophytes) typically adapted for life in saturated soil conditions (hydric soils). Wetlands generally include swamps, marshes, bogs, and similar areas." 40 CFR 232.2(r). Although the onsite wetland meets the federal definition of "wetland" (outlined in the Corps/EPA methodologies), the issue of whether the onsite wetland is subject to jurisdiction under Sections 404/401 of the Clean Water Act is a separate matter requiring review and likely onsite inspection by the Corps. It is AKRF's opinion that the onsite wetland does not have a permanent connection to other waters of the U.S., aside from the broken storm drain manhole. Regardless, the proposed site plan would not disturb the wetland or any lands within 100-feet of the wetland. Therefore, no federal jurisdictional determination site inspection is required.

² Edinger et al. (2014) define this community as "residential, recreational, or commercial land, or unpaved airport runways in which the groundcover is dominated by clipped grasses and there is less than 30 percent cover of trees. Ornamental and/or native shrubs may be present, usually with less than 50 percent cover. The groundcover is maintained by mowing and broadleaf herbicide application."

³ Edinger et al. (2014) define this community as "a hardwood or mixed forest that occurs on sites that have been cleared or otherwise disturbed."

TOWN OF OSSINING

The Town of Ossining regulates wetlands and a 100-foot buffer around wetlands in accordance with Ossining Town Code, Chapter 105: Freshwater Wetlands, Watercourses and Water Body Protection. Regulated activities, such as the construction of any structure, filling, and excavation activities within a wetland or a wetland buffer, or any other that may impair the natural wetland functions as described in Town Code Section 105-1C, require a permit from the Town. No jurisdictional determination has been made by the Town at this time.

VILLAGE OF OSSINING

The Village of Ossining has no wetland protection ordinance.

B. WETLAND FUNCTIONAL ASSESSMENT

As discussed below, the onsite wetland serves primarily "modification of groundwater discharge" and "modification of water quality" wetland functions. Wetland functional categories are taken from Hollands and Magee⁴, with values rated low/medium/high based on data collected during site inspection (9.14.15 and 4.21.17) and through examination of additional resources, including existing drainage plans, topographic maps, soil maps, and historic maps/aerials of the project site.

HYDROLOGY

The onsite wetland is located in a topographically low area at the southwest corner of the intersection of Grandview Avenue and Narragansett Avenue. Field inspection indicates the wetland receives surface water inputs from a number of drain pipes conveying runoff from adjacent properties to the east and north and from the project site. Drain outlets discharging to the wetland are shown in Figure 7 (photos 5-8). Most notable is the 18-to-24-inch storm drain pipe running beneath the wetland that receives stormwater inputs from catch basins along Grandview Avenue and additional lands to the north. As shown in photo 8, one of the manholes for this pipe is located within the wetland itself and is in disrepair. During site inspection (4.21.17) which occurred the day following ¹/₄-inch of rain in the previous 24 hours, water was observed flowing directly into the broken concrete base of one of the manholes. During rain events, this broken pipe likely serves as a substantial source of surface water inputs to the wetland as well.

Topographic maps indicate that the wetland's drainage area is roughly 10 acres in size, most of which is offsite to the north and east. However, the current extent of development (roads/houses/sewers) surrounding the wetland has substantially modified patterns of surface drainage which may have increased/descreased the size of the wetland's contributory drainage area. Historic maps of the area (circa 1900) show a linear drainage feature running through the current wetland, draining southwards to a larger network of drainageways along Pine Avenue to the south, which eventually discharge to the Hudson River as "Sing Sing Creek" by the Ossining Railroad Station. This drainage network no longer exists. Historic farming/grading of the land and more recent fill and piping of stormwater runoff for residential development have removed all evidence of the original surface drainage features.

The wetland's landscape position in a low valley historically mapped as a surface drainageway and its persistent hydrophytic vegetation, including most importantly sweetflag (*Acorus americanus*) and tussock sedge (*Carex stricta*) both obligate wetland species, indicate that groundwater plays an important role in

⁴ "A Rapid Procedure for Assessing Wetland Functional Capacity based on Hydrogeomorphic (HGM) Classification, February 1998" (manual) by Dennis W. Magee with technical contributions from Garrett G. Hollands.

sustaining wetland hydrology. The wetland is underlain by LcB: Leicester loam soils, a "somewhat poorly drained" soil. This too indicates that this wetland is less likely to be the result of recent hydrologic inputs from the surrounding roadway network and more likely to be a long-standing wetland feature.

- Modification of Groundwater Discharge – medium/high

As discussed above, the wetland's landscape position, historic mapping of drainageways, and persistence of obligate wetland plant species indicates this wetland serves groundwater discharge functions. These conditions sustain wetland plants and sustain downstream surface water flows.

- Modification of Groundwater Recharge – low

The presence of the sewer and drain lines mapped beneath the wetland convey surface water rapidly away from this wetland. Although the wetland undoubtedly serves groundwater recharge functions at least seasonally, it is not a primary function.

- Storm and Floodwater Storage – low/medium

Due to its low, depressional landscape position, the onsite wetland serves some stormwater storage functions. However, site inspection indicates there is no sustained flooding (no watermarks or drift lines) and the wetland drains to the existing roadway network storm drain through a broken manhole and likely through preferential pathways (seep) along the outside of these pipes judging by its lack of ponding. Therefore, stormwater storage functions are minimized.

- Modification of Stream Flow – low

The wetland is small in size (1/4 acre) and has no surface outlet. Instead it discharges to the underlying storm drain, dissipates through evapotranspiration, and infiltrates to groundwater during periods of depressed groundwater elevation. As such, its ability to modify downstream flows is limited.

- Modification of Water Quality - medium

The onsite wetland sustains water temporarily during rain events, although this function is limited due to the wetland's small size and outflows to the broken stormdrain manhole within the wetland. Nutrient and sediment removal processes within the wetland and wetland soils add some amount of water quality improvement function beneficial to downstream surface waters.

- Export of Detritus – low/medium

The turnover of senesced vegetation as a source of carbon and nutrients for flora/fauna occupying downstream receiving waters is expected to be minimal. The wetland has no established outlet, only the broken storm drain manhole that effectively drains the wetland during a short period of time after rain events. Therefore export of significant amounts of detrital plant material is not occurring.

FLORA/FAUNA

Examination of wetland and upland plants and animals onsite has occurred on multiple occasions, including the initial wetland delineation effort (9.14.15), a fall season ecological inventory (10.17.16), and a supplemental wetland functional assessment site visit (4.21.17). As discussed in the DEIS, only one amphibian species was noted onsite, the red backed salamander (*Plethodon cinereus*) an upland species found in wooded habitat. Standing water in the wetland occurs sporadically and temporarily during and immediately following rain storms. Water depths and period of inundation in the wetland are not sufficient to provide breeding habitat for any wetland dependent amphibian species and for most aquatic invertebrate species (dragonflies, mosquitos, etc.).

The wetland's lack of trees or shrubs is due to intermittent mowing which is likely undertaken in summer during dry periods. Wetland vegetation is dominated by sweet flag (*Acorus calamus*), with lesser occurrence of sensitive fern (*Osmunda sensibilis*), tussock sedge (*Carex stricta*), and New York Aster (*Symphyotrichum novi-belgii*), and Japanese stilt grass (*Microstegium japonica*).

- Contribution of Abundance and Diversity of Wetland Vegetation - low

As discussed above, wetland vegetation is limited to a few herbaceous species which do not provide significant food, forage, denning or nesting habitat for wetland-dependent wildlife. Nor are any of the species of plants identified within the wetland uncommon or NYS-listed.

- Contribution of Abundance and Diversity of Wetland Fauna - low

As discussed above, the wetland does not retain water for sufficient periods to serve as breeding habitat for wetland-dependent amphibians or aquatic invertebrates. No amphibian egg masses or individual amphibians or other animals were identified in the wetland during the Summer 2015 and Spring 2017 site inspections.

IMPACT ASSESSMENT

The proposed site plan requires no disturbance to the onsite wetland or 100-foot Town-regulated wetland buffer. As such, wetland impacts are avoided. The buffer consists primarily of low-quality maintained lawn habitat with some wooded patches along the periphery of the parcel. These would be preserved. No wetland-dependent vegetation or wildlife would be adversely affected by the proposed site plan.

The wetland's principal functions are "modification of groundwater discharge" and "modification of water quality". Stormwater runoff from onsite and offsite lands contributing hydrology to the wetland will be maintained with the proposed site plan. As discussed, a majority of the wetland's hydrologic budget is supplied by offsite lands, including inputs from the broken storm drain manhole. In addition, its landscape position and persistence of obligate hydrophytic vegetation indicates that groundwater is a primary source of wetland hydrology. None of these hydrologic inputs would be modified by the proposed project. A small portion of the property (drainage area DA-2A on the SWPPP) contributes overland flow to the wetland during larger storm events. Implementation of the onsite stormwater management plan would reduce the size of this drainage area a small amount, by approximately 1.3 acres. This drainage area represents a small fraction of the wetland's overall drainage area. Therefore, the hydrologic budget and wetland hydrology will be sustained in this wetland with the propose site plan. No

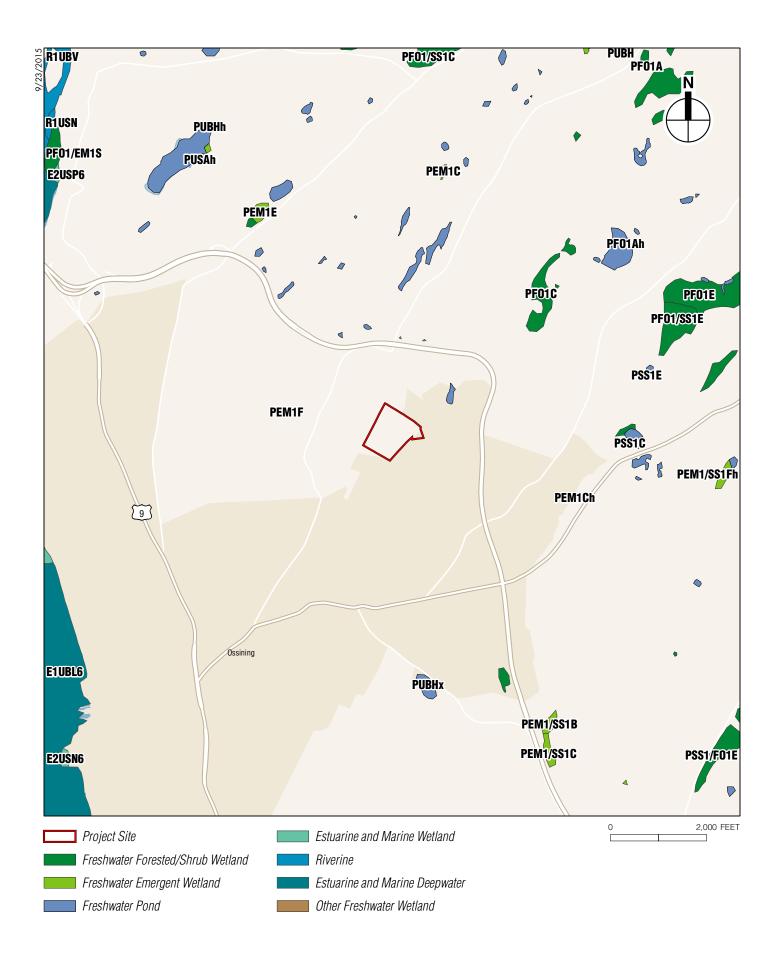
impacts to the groundwater discharge and water quality functions of the wetland will occur under the site plan proposed in the May, 2017 DEIS.

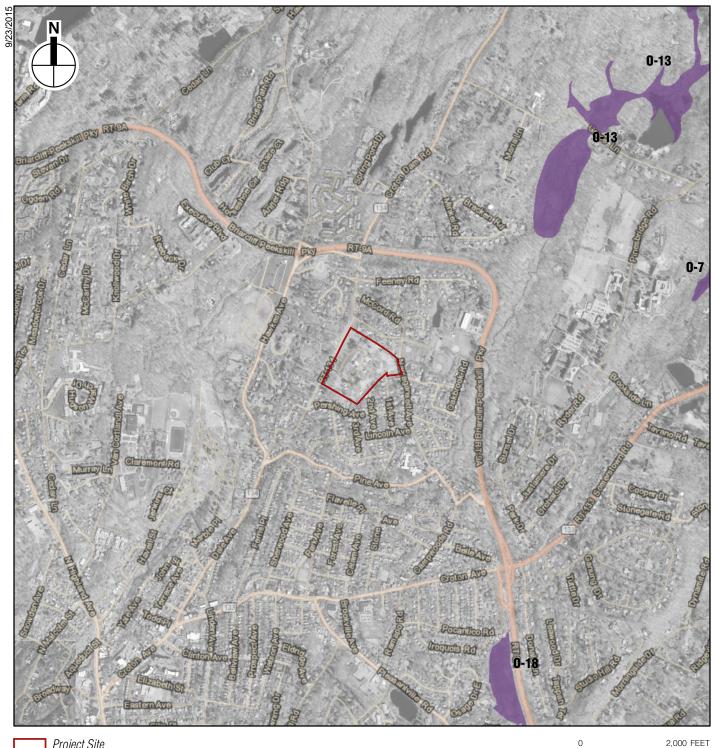
Figures:

- 1. NWI Wetlands
- 2. NYSDEC Freshwater Wetlands
- 3. Surveyed Wetlands
- 4. Photograph Key
- 5. Representative Site Photographs
- 6. Wetland Functional Assessment Photo Key
- 7. Wetland Functional Assessment Photos

Attachments:

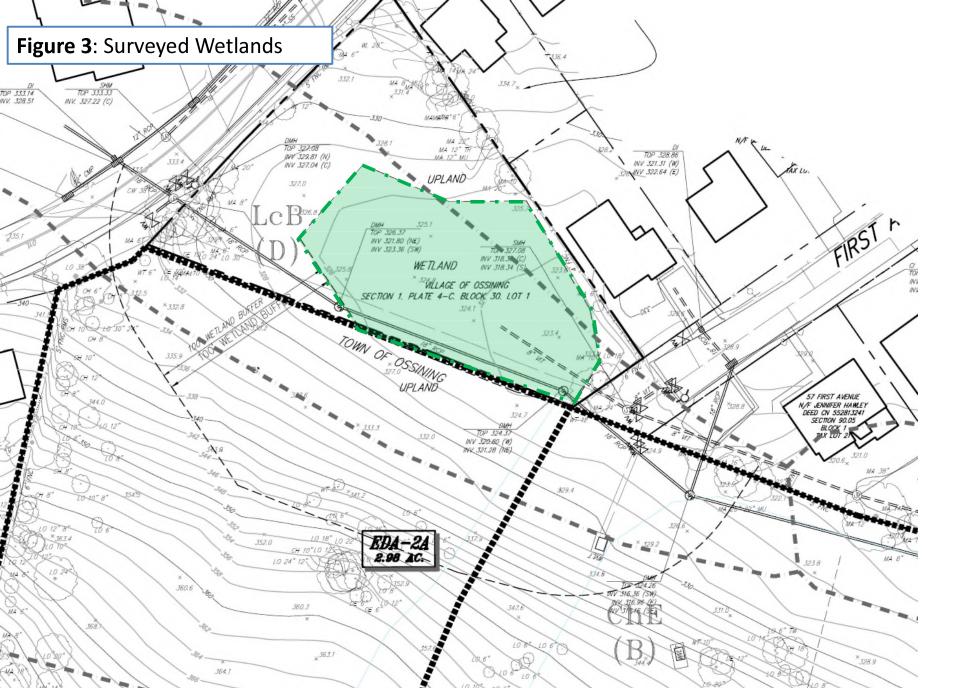
USACE Wetland Determination Data Forms







2,000 FEET







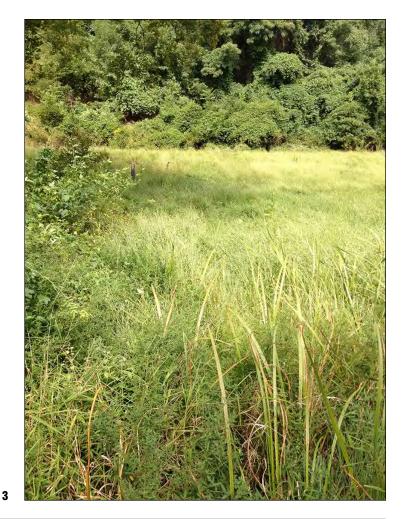
400 FEET

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Representative Site Photographs Figure 5a





View of the southern boundary of Wetland A and the adjacent upland hillslope, facing west



View of Wetland A and the adjacent property, facing east 4

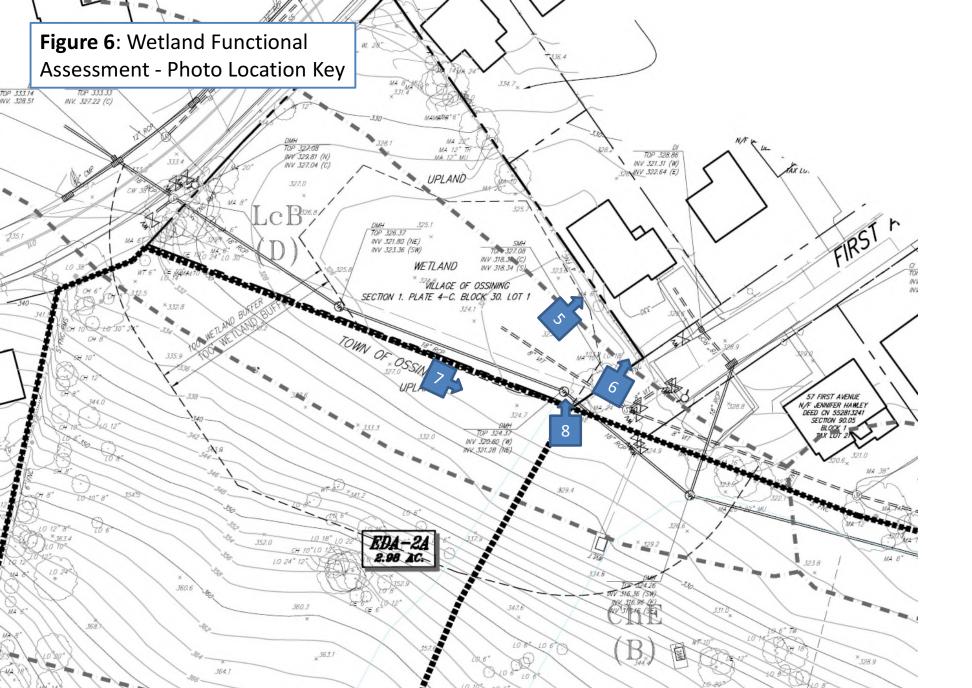






Photo 5: Drainage Pipe from Adjacent Property to Wetland (4.21.17)



Photo 7: Drainage Pipe from upslope onsite parcel to Wetland (4.21.17)



Photo 6: Drainage Pipes from Adjacent Property to Wetland (4.21.17)



Photo 8: Broken storm drain within wetland (4.21.17)

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Applicant/Owner: Glenco Ossining, LL			City/County: Ossir	ing/westchester	Sampling Date: 9/14/15
Applicativowner. Glenco Ossining, LL	С			State: NY	Sampling Point: Wetland A
Investigator(s): Jesse Moore			Section, To	wnship, Range: Ossining	
Landform (hillslope, terrace, etc.): Depr	ression at toe of slope	Local	relief (concave, conve	k, none): <u>Concave</u>	Slope (%):
Subregion (LRR or MLRA): LRR R		Lat: N 41.1	77220	Long: W 73.844945	Datum:
Soil Map Unit Name: LcB – Leicester	loam, 3 to 8 percent slop	pes, stony		NWI classificat	ion: None
Are climatic/hydrologic conditions on the	site typical for this time	of year? Yes X	No	(If no, explain in Rer	narks.)
Are Vegetation <u>N</u> , Soil <u>N</u>	, or Hydrology N	significantly distur	bed?	Are "Normal Circumstance	es" present? Yes X No
Are Vegetation <u>N</u> , Soil <u>N</u>	, or Hydrology N	naturally problema	atic?	(If needed, explain any ar	swers in Remarks.)
SUMMARY OF FINDINGS –	Attach site map s	howing sampli	ng point location	ns, transects, important	features, etc.
Hydrophytic Vegetation Present?	Yes <u>X</u> No		Is the Sampled Area		
	Yes X No		within a Wetland?	Yes	<u>X</u> No
Wetland Hydrology Present?	Yes <u>X No</u>		If yes, optional Wetla	nd Site ID:	
HYDROLOGY					
Wetland Hydrology Indicators:					cators (minimum of two required)
Primary Indicators (minimum of one Surface Water (A1)	is required; check all the		ed Leaves (B9)		ace Soil Cracks (B6) age Patterns (B10)
High Water Table (A2)		Aquatic Fau			s Trim Lines (B16)
X Saturation (A3)		Marl Deposi	ts (B15)		Season Water Table (C2)
Water Marks (B1)			ulfide Odor (C1)		fish Burrows (C8)
Sediment Deposits (B2)			izospheres on Living I Reduced Iron (C4)		ration Visible on Aerial Imagery (C9) eed or Stressed Plants (D1)
DUD DECOSIIS (B3)			Reduction in Tilled So		norphic Position (D2)
Drift Deposits (B3) Algal Mat or Crust (B4)		Recent Iron			
Algal Mat or Crust (B4) Iron Deposits (B5)		Thin Muck S	Surface (C7)	Shall	ow Aquitard (D3)
Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Im		Thin Muck S		Shall Micro	otopographic Relief (D4)
Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Im Sparsely Vegetated Concave S		Thin Muck S	Surface (C7)	Shall Micro	,
Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Im Sparsely Vegetated Concave S Field Observations:	Surface (B8)	Thin Muck S Other (Expla	Surface (C7)	Shall Micro	otopographic Relief (D4)
Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Im Sparsely Vegetated Concave S		Thin Muck S Other (Expla Depth (inches):	Surface (C7)	Shall Micro	otopographic Relief (D4)
Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Im Sparsely Vegetated Concave S Field Observations: Surface Water Present? Yes	Surface (B8)	Thin Muck S Other (Expla	Surface (C7)	Shall Micro	otopographic Relief (D4) Neutral Test (D5)
Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Im Sparsely Vegetated Concave S Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes Describe Recorded Data (stream gauge,	Surface (B8)	Thin Muck S Other (Expla Depth (inches): Depth (inches): Depth (inches):	Surface (C7) ain in Remarks) 	Shall	otopographic Relief (D4) Neutral Test (D5)
Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Im Sparsely Vegetated Concave S Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes	Surface (B8)	Thin Muck S Other (Expla Depth (inches): Depth (inches): Depth (inches):	Surface (C7) ain in Remarks) 	Shall	otopographic Relief (D4) Neutral Test (D5)
Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Im Sparsely Vegetated Concave S Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes Describe Recorded Data (stream gauge,	Surface (B8)	Thin Muck S Other (Expla Depth (inches): Depth (inches): Depth (inches):	Surface (C7) ain in Remarks) 	Shall	otopographic Relief (D4) Neutral Test (D5)
Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Im Sparsely Vegetated Concave S Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes Describe Recorded Data (stream gauge,	Surface (B8)	Thin Muck S Other (Expla Depth (inches): Depth (inches): Depth (inches):	Surface (C7) ain in Remarks) 	Shall	otopographic Relief (D4) Neutral Test (D5)
Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Im Sparsely Vegetated Concave S Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes Describe Recorded Data (stream gauge,	Surface (B8)	Thin Muck S Other (Expla Depth (inches): Depth (inches): Depth (inches):	Surface (C7) ain in Remarks) 	Shall	otopographic Relief (D4) Neutral Test (D5)
Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Im Sparsely Vegetated Concave S Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes Describe Recorded Data (stream gauge,	Surface (B8)	Thin Muck S Other (Expla Depth (inches): Depth (inches): Depth (inches):	Surface (C7) ain in Remarks) 	Shall	otopographic Relief (D4) Neutral Test (D5)
Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Im Sparsely Vegetated Concave S Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes Describe Recorded Data (stream gauge,	Surface (B8)	Thin Muck S Other (Expla Depth (inches): Depth (inches): Depth (inches):	Surface (C7) ain in Remarks) 	Shall	otopographic Relief (D4) Neutral Test (D5)
Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Im Sparsely Vegetated Concave S Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes Describe Recorded Data (stream gauge,	Surface (B8)	Thin Muck S Other (Expla Depth (inches): Depth (inches): Depth (inches):	Surface (C7) ain in Remarks) 	Shall	otopographic Relief (D4) Neutral Test (D5)
Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Im Sparsely Vegetated Concave S Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes Describe Recorded Data (stream gauge,	Surface (B8)	Thin Muck S Other (Expla Depth (inches): Depth (inches): Depth (inches):	Surface (C7) ain in Remarks) 	Shall	otopographic Relief (D4) Neutral Test (D5)
Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Im Sparsely Vegetated Concave S Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes Describe Recorded Data (stream gauge,	Surface (B8)	Thin Muck S Other (Expla Depth (inches): Depth (inches): Depth (inches):	Surface (C7) ain in Remarks) 	Shall	otopographic Relief (D4) Neutral Test (D5)
Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Im Sparsely Vegetated Concave S Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes Describe Recorded Data (stream gauge,	Surface (B8)	Thin Muck S Other (Expla Depth (inches): Depth (inches): Depth (inches):	Surface (C7) ain in Remarks) 	Shall	otopographic Relief (D4) Neutral Test (D5)
Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Im Sparsely Vegetated Concave S Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes Describe Recorded Data (stream gauge,	Surface (B8)	Thin Muck S Other (Expla Depth (inches): Depth (inches): Depth (inches):	Surface (C7) ain in Remarks) 	Shall	otopographic Relief (D4) Neutral Test (D5)
Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Im Sparsely Vegetated Concave S Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes Describe Recorded Data (stream gauge,	Surface (B8)	Thin Muck S Other (Expla Depth (inches): Depth (inches): Depth (inches):	Surface (C7) ain in Remarks) 	Shall	otopographic Relief (D4) Neutral Test (D5)
Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Im Sparsely Vegetated Concave S Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes Describe Recorded Data (stream gauge,	Surface (B8)	Thin Muck S Other (Expla Depth (inches): Depth (inches): Depth (inches):	Surface (C7) ain in Remarks) 	Shall	otopographic Relief (D4) Neutral Test (D5)

VEGETATION – Use scientific names of plants.

Sampling Point: Wetland A

minant ecies?	Indicator Status	Prevalence Index = B/A = Hydrophytic Vegetation Indica 1 – Rapid Test for X 2 – Dominance Te 3 – Prevalence Ind 4 – Morphological A	1 nat 100 Multiply by x1= x2= x3= x4= x5= (A)	(B)
	FACW	Are OBL, FACW, or FAC: Total Number of Dominant Spec Across All Strata: Percent of Dominant Species Th Are OBL, FACW, or FAC: Prevalence Index Worksheet: Total % Cover of: OBL species FACW species FAC species FACU species Column Totals: Prevalence Index = B/A = Hydrophytic Vegetation Indica 1 - Rapid Test for X 2 - Dominance Te 3 - Prevalence Index	1 nat 100 Multiply by x1= x2= x3= x4= x5= (A)	(B) (A/B)
	FACW	Across All Strata: Percent of Dominant Species Th Are OBL, FACW, or FAC: Prevalence Index Worksheet: Total % Cover of: OBL species FACW species FAC species UPL species Column Totals: Prevalence Index = B/A = Hydrophytic Vegetation Indica 1 - Rapid Test for X 2 - Dominance Te 3 - Prevalence Ind 4 - Morphological A	1 100 Multiply by x1= x2= x3= x4= x5= (A)	(A/B)
	FACW	Are OBL, FACW, or FAC: Prevalence Index Worksheet: Total % Cover of: OBL species FACW species FAC species FACU species Column Totals: Prevalence Index = B/A = Hydrophytic Vegetation Indication X 2 – Dominance Te 3 – Prevalence Index 4 – Morphological A	100 Multiply by x1= x2= x3= x4= x5= (A) Ators: Hydrophytic Vegetation Set is >50% dex is #3.0 ¹	(B)
	FACW	Total % Cover of: OBL species FACW species FAC species FACU species UPL species Column Totals: Prevalence Index = B/A = Hydrophytic Vegetation Indication 1 - Rapid Test for X 2 - Dominance Te 3 - Prevalence Index 4 - Morphological A	Multiply by x1= x2= x3= x4= x5= (A) ators: Hydrophytic Vegetation est is >50% dex is #3.0 ¹	(B)
	FACW	OBL species FACW species FAC species FACU species UPL species Column Totals: Prevalence Index = B/A = Hydrophytic Vegetation Indica 1 – Rapid Test for X 2 – Dominance Te 3 – Prevalence Ind 4 – Morphological A	x1= x2= x3= x4= x5= (A) (A) (A) (A) (A) (A) (A) (A) (A) (A)	(B)
	FACW	FACW species FAC species FACU species UPL species Column Totals: Prevalence Index = B/A = Hydrophytic Vegetation Indica 1 - Rapid Test for X 2 - Dominance Te 3 - Prevalence Ind 4 - Morphological A	x2= x3= x4= x5= (A) ators: Hydrophytic Vegetation set is >50% dex is #3.0 ¹	(B)
	FACW	FAC species FACU species UPL species Column Totals: Prevalence Index = B/A = Hydrophytic Vegetation Indica 1 – Rapid Test for X 2 – Dominance Te 3 – Prevalence Ind 4 – Morphological A	x3= x4= (A) ators: Hydrophytic Vegetation set is >50% dex is #3.0 ¹	(B)
tal Cover	FACW	FACU species UPL species Column Totals: Prevalence Index = B/A = Hydrophytic Vegetation Indica 1 – Rapid Test for X 2 – Dominance Te 3 – Prevalence Ind 4 – Morphological A	x4=	(B)
tal Cover	FACW	UPL species Column Totals: Prevalence Index = B/A = Hydrophytic Vegetation Indica 1 – Rapid Test for X 2 – Dominance Te 3 – Prevalence Ind 4 – Morphological A	x5= (A) ators: Hydrophytic Vegetation est is >50% dex is #3.0 ¹	(B)
tal Cover	FACW	Column Totals: Prevalence Index = B/A = Hydrophytic Vegetation Indica 1 – Rapid Test for X 2 – Dominance Te 3 – Prevalence Ind 4 – Morphological A	(A) ators: Hydrophytic Vegetation est is >50% dex is #3.0 ¹	(B)
tal Cover	FACW	Prevalence Index = B/A = Hydrophytic Vegetation Indica 1 – Rapid Test for X 2 – Dominance Te 3 – Prevalence Ind 4 – Morphological A	ators: • Hydrophytic Vegetation est is >50% dex is #3.01	
tal Cover	FACW	Hydrophytic Vegetation Indica 1 – Rapid Test for X 2 – Dominance Te 3 – Prevalence Ind 4 – Morphological A	Hydrophytic Vegetation est is >50% dex is #3.0 ¹	n
tal Cover	FACW	1 – Rapid Test for X 2 – Dominance Te 3 – Prevalence Inc 4 – Morphological A	Hydrophytic Vegetation est is >50% dex is #3.0 ¹	n
tal Cover	FACW	X 2 – Dominance Te 3 – Prevalence Inc 4 – Morphological A	est is >50% dex is #3.0 ¹	n
	FACW	3 – Prevalence Inc 4 – Morphological A	dex is #3.0 ¹	
	FACW	4 – Morphological A		
		4 – Morphological A data in Remark	Adaptations ¹ (Provide supp	
	OBL	Gala III Komany	(s or on a separate sheet)	orting
			, ,	
		Problematic Hyd	Irophytic Vegetation ¹ (E	xplain)
	<u> </u>	4		
		¹ Indicators of hydric soil and we present, unless disturbed or prot		е
	<u> </u>	Definitions of Vegetation Strat		
		Tree – Woody plants 3 in. (7.6 c breast height (DBH), regardless	cm) or more in diameter of height.	at
		• • • •	•	d creater
	<u> </u>	than or equal to 3.28 ft (1 m) tal	II.	
		Herb – All herbaceous (non-woo	ody) plants, regardless	of size,
tal Cover				height
		Woody vines - All woody vines	greater than 5.20 it in i	leight.
	. <u></u> ,	Hydrophytic		
tal Cover			No	
			breast height (DBH), regardless Sapling/shrub – Woody plants than or equal to 3.28 ft (1 m) ta Herb – All herbaceous (non-wor and woody plants less than 3.28 Woody vines – All woody vines Hydrophytic Vegetation	breast height (DBH), regardless of height. Sapling/shrub – Woody plants less than 3 in. DBH and than or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless and woody plants less than 3.28 ft tall. Woody vines – All woody vines greater than 3.28 ft in I Hydrophytic Vegetation

SOIL

Sampling Point: Wetland A

file Decert	tion (Deserit - t	the deat											
Depth	otion: (Describe to t Ma	the depth trix	neede	a to accument	ne in	Redox F		absence o	Ind	icators.)			
(inches)	Color (moist)		%	Color (moist)		%	Type ¹	Loc ²		Texture		Rema	ırks
0-3	10YR 2/2	93		5YR 4/6		7	C	PL		Loam		Saturated, fibric or	
3-8	10YR 3/1	97		%YR 4/6		3	C	M		Clayey loam	1	.,	
8-18	10YR 3/1	10)							Clayey loam			
be: C=Conc	entration, D=Depleti	on, RM=R	educed	d Matrix, MS=Ma	sked	Sand Gr	ains. ² Location:	PL=Pore Li	ning	M=Matrix			
Iria Sail Ind	liaatara								In	diantara for Br	hla	notio Uvdrio Soilo	3.
Iric Soil Ind				Dehav					IN			matic Hydric Soils	
	sol (A1)					selow Su	rface (S8) (LRF	R, MLRA				A10) (LRR K, L, ML	
	Epipedon (A2)			149B)								Redox (A16) (LRR	
	Histic (A3)						S9) (LRR R, M I					Peat or Peat (S3) (I	LRR K, L, R)
	gen Sulfide (A4)						ral (F1) (LRR K	, L)				e (S7) (LRR, K, L)	
	ied Layers (A5)					yed Matr						elow Surface (S8) (L	
Deple	ted Below Dark Surf	ace (A11)		Deple	ted M	latrix (F3)			Thin Da	rk Su	Irface (S9) (LRR K,	L)
Thick	Dark Surface (A12)			X Redox	Dark	k Surface	e (F6)			Iron-Mai	ngan	ese Masses (F12) (LRR K, L, R)
Sandy	/ Mucky Mineral (S1))		Deple	ted D	ark Surfa	ace (F7)			Piedmor	nt Flo	odplain Soils (F19)	(MLRA 149B)
Sandy	Gleved Matrix (S4)			Redox	Dep	ressions	(F8)			Mesic S	podio	c (TA6) (MLRA 144	A, 145, 149B)
Sandy	Redox (S5)									Red Par	ent I	Material (F21)	
	ed Matrix (S6)									Very Sh	allow	Dark Surface (TF1	2)
	Surface (s7) (LRR, N	/LRA. 149	B)									n in Remarks)	,
	vdrophytic vegetation			drology must be i	orese	ent, unles	s disturbed or p	roblematic.			•	,	
d Observatio													
Type:	Saturation												
Type: Depth (in narks:								Ну	lric :	Soil Present?		Yes X	No
Depth (in								Hy	dric :	Soil Present?		Yes X	No

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Applicant/Owner: State: NY Sampling Point: Upland A Investigator(s): Jease Moore Section, Township, Range: Osaining Landform (hillslope, terrace, etc.): Hillslope Local relief (concave, convex, none): solpe Solvegion (UR or MLRA): ERR Lat: N11177220 Long: W738484945 Datum: Solvegion (UR or MLRA): ERR Lat: N11177220 Long: W73848945 Datum: Solvegion (UR or MLRA): ERR Lat: N11177220 Long: W73848945 Datum: Solvegion (UR or MLRA): ERR Long: W73848945 Datum: Solvegion (UR or explain in Remarks.) Store (Septation N	Applicant/Ourpary Clance Ossining				City/County: Ossin	ing/Westchester	S	ampling Dat	e: 9/1
Landtorm (hillslope, terrace, etc.): Hillstope Local relief (concave, convex, none): slope Slope (%): Subregion (LRR or MLRA): LRR R Lat: N 41.177220 Long: W7 (38.44945 Datum: Soli Map Unit Leicester loam, 3 to 8 percent slopes, story NO (ff no, explain in Remarks.) Are climatichydrologic conditions on the site typical for this time of year? Yes No (ff no, explain in Remarks.) Are Vegetation N, Soil N, or Hydrology N	Applicant/Owner: Glenco Ossining	LLC				State: NY	(Sampling P	oint: Upland A
Subregion (LRR or MLRA): LRR R Lat: N11.177220 Long: W 73.844945 Datum: Soll Map Unit Name: LB - Leicester loam, 3 to 8 percent slopes, story NVI classification: None NVI classification: None Are Unait/Nortfolgic conditions on the site typical for this time of year? Yes X No	Investigator(s): Jesse Moore				Section, To	wnship, Range: Ossining			
Soil Map Unit Name: L6B - Leicester loam, 3 to 8 percent slopes, stony NWI classification: None Are climatic/hydrologic conditions on the site typical for this time of year? Yes X No	Landform (hillslope, terrace, etc.): H	lillslope		Local	relief (concave, convex	, none): slope			Slope (%):
Are climatic/hydrologic conditions on the site typical for this time of year? Yes X No (If no, explain in Remarks.) Are vegetation N Soil N or Hydrology N naturally problematic? Are "Normal Circumstances" present? Yes X No SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Yes No X Hydrophytic Vegetation Present? Yes No X Is the Sampled Area within a Wetland? Yes No X Wetland Hydrology Present? Yes No X If yes, optional Wetland Site ID: No X Primary Indicators: Finany Indicators: Secondary Indicators (minimum of two required) Surface Soil Gracks (B6) Surface Water (1) Water-Stained Leaves (B9) Darlace Soil Gracks (B6) Darlace Soil Gracks (B6) High Water Table (A2) Aquatic Fauna (B13) Mooss Tim Lines (B10) Darlace Soil Gracks (B6) Sufface Klash Hydrogen Sufface Odor (C1) Crafylish Burrows (C2) Saturation (A3) Genorphic Position (C4) Sufface Klash Hydrogen Sufface Odor (C1) Crafylish Burrows (C8) Saturation (X3) Genorphic Positin (D2) Saturation (A3)	Subregion (LRR or MLRA): LRR R			Lat: N 41.1	77220	Long: W 73.84	4945		Datum:
Are Vegetation N , Soil N , or Hydrology N asturally problematic? Are "Normal Circumstances" present? Yes No Are Vegetation N , Soil N , or Hydrology N naturally problematic? (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc. Hydrohydrogy No X Hydro hydrology Present? Yes No X It is the Sampled Area within a Wetland? Yes No X Wetland Hydrology Present? Yes No X If yes, optional Wetland Site ID: No X Primary Indicators (minimum of one is required; check all that apply) Surface Soil Cracks (B6) Drainage Patterns (B10) Mitare Water (A1) Water Table (A2) Aquatic Fauna (B13) Mos Strin Lines (B16) Dbrainage Patterns (B10) Surface Water (A1) Hydrogen Surface Or (C1) Craytish Burrows (C8) Saturation (K3) Saturation (K3) Surface Water (A1) Hydrogen Surface (C1) Hydrogen Surface (C1) Craytish Burrows (C8) Saturation (K3) Surface Mater (K1) Hydrogen Surface C1) Presence of Reduced Iron (C4)	Soil Map Unit Name: LcB – Leices	ter loam, 3 to 8 p	ercent slope	s, stony		NWI clas	ssification:	None	
Are Vegetation N , Soil N , or Hydrology N naturally problematic? (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Yes No Is the Sampled Area Widthin a Wetland? Yes No X Wetland Hydrology Present? Yes No X Remarks: (Explain alternative procedures here or in a separate report.) Surface Soil Cracks (B6) Surface Soil Cracks (B6) Primary Indicators (minimum of one is required; check all that apply) Surface Soil Cracks (B6) Drainage Patterns (B10) High Water Table (A2) Aquatic Fauna (B13) Moss Trim Lines (B16) Dry-Season Water Table (C2) Surface Water (A1) Hydroges Suffice Odor (C1) Craylish Burrows (C8) Surface Cases (B6) Drainage Patterns (B10) Surface Water (A1) Hydrogen Suffice Odor (C1) Craylish Burrows (C8) Sufface C1) Craylish Burrows (C8) Sufface Staturation (A3) Presence of Reduced inon (C4) Stunted on Stressed Plants (D1) Sufface Nater Vegetated Concave Sufface (B8) Primary Indicators (B10) Thin Muck Surface (C7) Shallow Aquitard (D3)	Are climatic/hydrologic conditions on	the site typical for	this time of	year? Yes X	No	(If no, explain	in Remark	s.)	
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Yes No X Is the Sampled Area within a Wetland? Yes No X Hydro Soil Present? Yes No X If yes, optional Wetland Site ID: No X Remarks: (Explain alternative procedures here or in a separate report.) If yes, optional Wetland Site ID: No X X Wetland Hydrology Indicators: Secondary Indicators (minimum of two required) Surface Soil Cracks (B6) Drainage Patterns (B10) Might Vater Table (A2) Aquatic Fauna (B13) Drainage Patterns (B10) Drainage Patterns (B10) Surface Soil Cracks (B6) Drainage Patterns (B10) Drays Fauna (B13) Mos Strim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Saturatio	Are Vegetation N , Soil N	, or Hydrolog	gy N	significantly distur	bed?	Are "Normal Circum	nstances" p	resent? Yes	X No
Hydrophytic Vegetation Present? Yes No X Hydric Soil Present? Yes No X Wetland Hydrology Present? Yes No X If yes, optional Wetland? Yes No X Remarks: (Explain alternative procedures here or in a separate report.) If yes, optional Wetland Site ID: Yes No X HYDROLOGY Wetland Hydrology Indicators: Secondary Indicators (minimum of two required) Surface Soil Cracks (B6) Primary Indicators (minimum of one is required; check all that apply) Surface Water (A1) Water-Stained Leaves (B9) Surface Soil Cracks (B6) Saturation (A3) Mart Deposits (B13) Drainage Patterns (B10) Moss Trim Lines (B16) Saturation (A3) Mart Deposits (B15) Dry Season Water Table (C2) Crayfish Burrows (C8) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1) Alga Mat or Crust (B4) Recent Iron Reduction in Titled Soils (C6) Genomphic Positin (D2) Shalow Aquitard (D3) In Deposits (B5) Thin Muck Surface (C7) Shalow Aquitard (D3) Microtopographic Relief (D4) Shalow Aquitard (D3) <td< td=""><td>Are Vegetation N , Soil N</td><td>, or Hydrolog</td><td>ay N</td><td>naturally problema</td><td>atic?</td><td>(If needed, explain</td><td>any answe</td><td>rs in Remark</td><td>s.)</td></td<>	Are Vegetation N , Soil N	, or Hydrolog	ay N	naturally problema	atic?	(If needed, explain	any answe	rs in Remark	s.)
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VEGETATION – Use scientific names of plants.

Sampling Point: Upland A

	Absolute	Dominant	Indicator	Dominance Test worksheet:		
Tree Stratum (Plot size: <u>30' radius</u>)	% Cover	Species?	Status			
1. <u>Robinia pseudoacacia</u>	8	<u>Y</u>	FACU	Number of Dominant Species That		
2				Are OBL, FACW, or FAC:	1 (A	A)
				Total Number of Dominant Species		
4				Across All Strata:	<u> </u>	B)
5				Percent of Dominant Species That		
6				Are OBL, FACW, or FAC:	<u> 16.67 (</u>	A/B)
7				Prevalence Index Worksheet:		
	8	=Total Cover		Total % Cover of:	Multiply by	
Sapling/Shrub Stratum (Plot size: 15' radius)				OBL species	x1=	
Juglans nigra	15	Y	FACU	FACW species	x2=	
2. Rosa multiflora		Y	FACU	FAC species	x3=	
Morus alba		N	FACU	FACU species	x4=	
4.				UPL species	x5=	
5.				Column Totals: (A)		B)
				Prevalence Index = B/A =		,
6 7.				Hydrophytic Vegetation Indicator	¢'	
/	26	=Total Cover				
Herb Stratum (Plot Size: 3.28' x 3.28')	26			1 – Rapid Test for Hy 2 – Dominance Test i		
	00	V	540			
1. <u>Microstegium vimineum</u>		<u>Y</u>	FAC	3 – Prevalence Index		
2. <u>Ampelopsis brevipedunculata</u>	40	<u>Y</u>	UPL	4 – Morphological Adap data in Remarks or	otations ¹ (Provide supportin on a separate sheet)	g
3. <u>Symphyotrichum dumosum</u>	4	N	FAC		, ,	
4				Problematic Hydrop	hytic Vegetation ¹ (Explai	in)
5						
6				¹ Indicators of hydric soil and wetlan present, unless disturbed or probler	d hydrology must be	
7				present, unless disturbed of probler	nauc.	
8				Definitions of Vegetation Strata:		
9				Tree – Woody plants 3 in. (7.6 cm)	or more in diameter at	
10				breast height (DBH), regardless of h	•	
11				Sapling/shrub – Woody plants less than or equal to 3.28 ft (1 m) tall.	than 3 in. DBH and cre	ater
12.				Herb – All herbaceous (non-woody)	plants, regardless of size	ze,
·	134	=Total Cover		and woody plants less than 3.28 ft t	all.	
Woody Vine Stratum (Plot size: 30' radius)	104			Woody vines – All woody vines gre	ater than 3.28 ft in heigh	ht.
1. Ampelopsis brevipedunculata	40	<u>Y</u>	UPL			
2						
3						
4				Hydrophytic Vegetation		
	40	=Total Cover		Present? Yes N	o X	
Remarks: (Include photo numbers here or on a separate shee	t.)					
	,					

SOIL

Sampling Point: Upland A

DIL											Sampling	Pol	it. Opiand A	
ofile Description	on: (Describe to th		led t	o document t	he ir			m the a	absence of	ind	icators.)			
Depth	Matri						eatures	1						
(inches)	Color (moist)	%		Color (moist)		%	Ту	′pe¹	Loc ²		Texture		Ren	narks
0-16	10YR 4/3	100									Loam			
16-18	10YR 4/3	70									Loam			
	10YR 7/6	30												
		<u> </u>												
			L				. 2.			ļ				
pe: C=Concent	tration, D=Depletior	n, RM=Reduc	ed IV	latrix, MS=Mas	sked	Sand Gr	ains. Loc	ation: F	L=Pore Li	ning.	M=Matrix			
duia Cail India										1	diantara far Dra	hlan	atia Uvdria Cail	la ³ .
dric Soil Indica				Dehave	lue l		face (CO			In			natic Hydric Soil	
Histosol				Polyva 149B)	liue	Selow Su	nace (So		R, MLRA				10) (LRR K, L, N	
	pipedon (A2)			,				-					Redox (A16) (LR	
Black Hi									RA 149B)				Peat or Peat (S3)	
	en Sulfide (A4)						al (F1) (L	.RR K, I	L)				(S7) (LRR, K, L)	
	d Layers (A5)	(yed Matr	. ,						ow Surface (S8)	
	d Below Dark Surfac	ce (A11)				latrix (F3							face (S9) (LRR I	
	ark Surface (A12)					k Surface	. ,						ese Masses (F12	
	lucky Mineral (S1)					ark Surfa								9) (MLRA 149B)
	Gleyed Matrix (S4)			Redox	Dep	ressions	(F8)						(TA6) (MLRA 14	44A, 145, 149B)
	Redox (S5)												laterial (F21)	
	l Matrix (S6)												Dark Surface (Th	F12)
	rface (s7) (LRR, ML										Other (e	xplaiı	n in Remarks)	
	rophytic vegetation a	and wetland h	iydro	logy must be p	orese	ent, unles	s disturbe	ed or pro	oblematic.					
d Observations	s.													
Туре:														
									Нус	dric :	Soil Present?		Yes	No X
Type: Depth (inch									Нус	dric :	Soil Present?		Yes	No X
Type: Depth (inch									Нус	dric :	Soil Present?		Yes	No X
Type: Depth (inch									Нус	dric :	Soil Present?		Yes	No X
Type: Depth (inch									Нус	dric :	Soil Present?		Yes	No X
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Type: Depth (inch									Нус	dric :	Soil Present?		Yes	No X
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Type: Depth (inch									Hyd	dric :	Soil Present?		Yes	No X
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Type: Depth (inch									Нус	dric :	Soil Present?		Yes	No X
Type: Depth (inch									Нус	dric :	Soil Present?		Yes	No X
Type: Depth (inch									Hyd	dric :	Soil Present?		Yes	No X
Type: Depth (inch									Нус	dric :	Soil Present?		Yes	No X
Type: Depth (inch									Нус	dric :	Soil Present?		Yes	No X
Type: Depth (inch									Нус	dric :	Soil Present?		Yes	No X
Type: Depth (inch									Нус	dric :	Soil Present?		Yes	No X
Type: Depth (inch									Hyd	dric :	Soil Present?		Yes	No X
Type: Depth (inch									Нус	dric S	Soil Present?		Yes	No X

 Table 3D

 Vegetation Identified within the Project Area

 and Study Area

0		tudy Area
Common Name	Scientific Name	Stratum
Norway spruce	Picea aibes	Tree
poison ivy	Taxicodendron radicans	Vine
yellow foxtail grass	Setaria pumila	Herb
Kentucky bluegrass	Poa pratensis	Herb
showy goldenrod	Solidago speciosa	Herb
crabgrass	Digitaria sp.	Herb
common plantain	Plantago major	Herb
English plantain	Plantago lanceolata	Herb
Virginia creeper	Parthenocissus quinquefolia	Vine
white snakeroot	Ageratina altissima	Herb
heart-leaved aster	Symphyotrichum cordifolium	Herb
bushy aster	Symphyotrichum dumosum dumosum	Herb
Indian strawberry	Duchesnea indica	Herb
sugar maple	Acer saccharum	Tree
Eastern white pine	Pinus strobus	Tree
Eastern red cedar	Juniperus virginiana	Tree
common lilac	Syringa vulgaris	Shrub
forsythia	Forsythis sp.	Shrub
star magnolia	Magnolia stellata	Tree
American redbud	Cercus canadensis	Tree
Japanese knotweed	Polygonum cuspidatum	Herb
dogbane	Apocynum cannabinum	Herb
Japanese honeysuckle	Lonicera japonica	Vine
Asiatic bittersweet	Celastrus orbiculatus	Vine
mugwort	Artemesia vulgaris	Herb
Northern Red Oak	Quercus rubra	Tree
black birch	Betula lenta	Tree
Yellow birch	Betula sp.	Tree
black cherry	Prunus serotina	Tree
pennsylvania sedge	Carex pensylvanica	Herb
eastern hemlock	Tsuga canadensis	Tree
hackberry	Celtis occidentalis	Tree
pignut hickory	Carya glabra	Tree
black locust	Robinia pseudoacacia	Tree
Norway maple	Acer platanoides	Tree
American hop hornbeam	Ostrya virginiana	Tree
Burning bush	Euonymous alatus	Shrub
white wood aster	Eurybia divaricata	Herb
marginal shield fern	Dryopteris marginalis	Herb
Christmas fern	Polystichum acrostichoides	Herb
Eastern cottonwood	Populus deltiodes	Tree
Lasiem collonwood	1 opuius demodes	1166

Table 9-1 (cont'd)Vegetation Identified within the Project Area
and Study Area

	allu St	uay Area
black walnut	Juglans nigra	Tree
multiflora rose	Rosa multiflora	Shrub
Japanese stiltgrass	Microstegium vimineum	Herb
orchard grass	Dactylis glomerata	Herb
little bluestem	Schizachyrium scoparium	Herb
ground cherry	Physalis sp.	Herb
wild carrot	Daucus carrota	Herb
black raspberry	Rubus occidentalis	Shrub
porcelainberry	Ampelopsis brevipedunculata	Vine
wine raspberry	Rubus phoenicolasius	Vine
umbrella sedge	Cyperus strigosus	Herb
white mulberry	Morus alba	Tree
sweet flag	Acorus calamus	Herb
New York Aster	Symphyotrichum novi-belgii	Herb
arrowleaf tearthumb	Persicaria sagittaria	Herb
wool grass	Scirpus cyperinus	Herb
ground ivy	Glechoma hederacea	Herb
Canada goldenrod	Solidago canadensis	Herb
blue flag iris	Iris versicolor	Herb
Switchgrass	Panicum virgatum	Herb
spotted ladies thumb	Polygonum persicaria	Herb
beggertick	bidens sp.	Herb
burdock	Arctium sp.	Herb
sensitive fern	Onoclea sensibilis	Herb
Rough bedstraw	galium sp.	Herb
wood sorrel	oxalissp.	Herb
sasafrass	Sasafras alba	Tree
Bamboo	Bambusa sp.	Shrub
bull thistle	Cirsium vulgare	Herb
tulip tree	Liriodendron tulipifera	Tree
sweet cherry	Prunus avium	Tree
common mullein	Verbascum thapsus	Herb
garlic mustard	Alliaria petiolata	Herb

Table 9-1 (cont'd)Vegetation Identified within the Project Areaand Study Area

Tussock sedge	Carex stricta	Herb
Jewelweed	Impatiens	Herb
Rock polypody	Polypodium virginianum	Herb
Purple violet	Viola sp.	Herb
White violet	Viola sp.	Herb
Wild garlic	Allium vineale	Herb
Wild madder	Galium sp.	Herb
Scilla	Scila sp.	Herb
American beech	Fagus grandifolia	Tree
Solomon's seal	Polygonatum Mill.	Herb
Common yarrow	Achillea millefolium	Herb
Narrowleaf plantain	Plantago lanceolata	Herb
Common dandelion	Taraxicum officinale	Herb
Leafy spurge	Euphorbia esula	Herb
	es New York state-listed endangered inaissance investigation on June 22,	

	Bird Atlas in Block 5
Common Name	Scientific Name
Canada Goose	Branta canadensis
Mute Swan	Cygnus olor
Wood Duck	Aix sponsa
Wild Turkey	Meleagris gallopavo
Great Blue Heron	Ardea herodias
Green Heron	Butorides virescens
Turkey Vulture	Cathartes aura
Sharp-shinned Hawk	Accipiter striatus
Cooper's Hawk	Accipiter cooperii
Broad-winged Hawk	Buteo platypterus
Red-tailed Hawk*	Buteo jamaicensis
Killdeer	Charadrius vociferus
Rock Pigeon	Columba livia
Mourning Dove	Zenaida macroura
Yellow-billed Cuckoo	Coccyzus americanus
Eastern Screech-Owl	Megascops asio
Great Horned Owl	Bubo virginianus
Chimney Swift	Chaetura pelagica
Ruby-throated Hummingbird	Archilochus colubris
Red-bellied Woodpecker	Melanerpes carolinus
Downy Woodpecker*	Picoides pubescens
Hairy Woodpecker	Picoides villosus
Northern Flicker*	Colaptes auratus
Eastern Wood-Pewee	Contopus virens
Alder Flycatcher	Empidonax alnorum
Willow Flycatcher	Empidonax traillii
Least Flycatcher	Empidonax minimus
Eastern Phoebe	Sayornis phoebe
Great Crested Flycatcher	Myiarchus crinitus
Eastern Kingbird	Tyrannus tyrannus
Yellow-throated Vireo	Vireo flavifrons
Blue-headed Vireo	Vireo solitarius
Warbling Vireo	Vireo gilvus
Red-eyed Vireo	Vireo olivaceus
Blue Jay*	Cyanocitta cristata
American Crow	Corvus brachyrhynchos
Tree Swallow	Tachycineta bicolor
Northern Rough-winged Swallow	Stelgidopteryx serripennis
Bank Swallow	Riparia riparia
Barn Swallow	Hirundo rustica

Poecile atricapillus

Baeolophus bicolor

Black-capped Chickadee

Tufted Titmouse*

 Table 3D

 Birds Documented during the 2000-2005 New York State Breeding

 Bird Atlas in Block 5955A

White-breasted Nuthatch	Sitta carolinensis
Carolina Wren	Thryothorus ludovicianus
House Wren	
	Troglodytes aedon
Blue-gray Gnatcatcher	Polioptila caerulea
Eastern Bluebird	Sialia sialis
Veery	Catharus fuscescens
Wood Thrush	Hylocichla mustelina
American Robin*	Turdus migratorius
Gray Catbird	Dumetella carolinensis
Northern Mockingbird*	Mimus polyglottos
European Starling*	Sturnus vulgaris
Cedar Waxwing	Bombycilla cedrorum
Blue-winged Warbler	Vermivora pinus
Yellow Warbler	Dendroica petechia
Chestnut-sided Warbler	Dendroica pensylvanica
Prairie Warbler	Dendroica discolor
Black-and-white Warbler	Mniotilta varia
American Redstart	Setophaga ruticilla
Worm-eating Warbler	Helmitheros vermivorum
Ovenbird	Seiurus aurocapilla
Louisiana Waterthrush	Seiurus motacilla
Common Yellowthroat	Geothlypis trichas
Scarlet Tanager	Piranga olivacea
Eastern Towhee	Pipilo erythrophthalmus
Chipping Sparrow*	Spizella passerina
Field Sparrow	Spizella pusilla
Song Sparrow*	Melospiza melodia
Swamp Sparrow	Melospiza georgiana
White-crowned Sparrow**	Zonotrichia leucophrys
White-throated Sparrow**	Zonotrichia albicollis
Northern Cardinal*	Cardinalis cardinalis
Rose-breasted Grosbeak	Pheucticus ludovicianus
Indigo Bunting	Passerina cyanea
Red-winged Blackbird	Agelaius phoeniceus
Common Grackle	Quiscalus quiscula
Brown-headed Cowbird*	Molothrus ater
Orchard Oriole	Icterus spurius
Baltimore Oriole	Icterus galbula
American Goldfinch*	Carduelis tristis
House Finch*	Carpodacus mexicanus
House Sparrow	Passer domesticus
Notes: Boldface denotes state-listed species of sp	
*Species observed on site	
**Species observed on site but not listed	
Sources: 2000-2005 New York State Breeding Bir	a Atlas Block 5955A

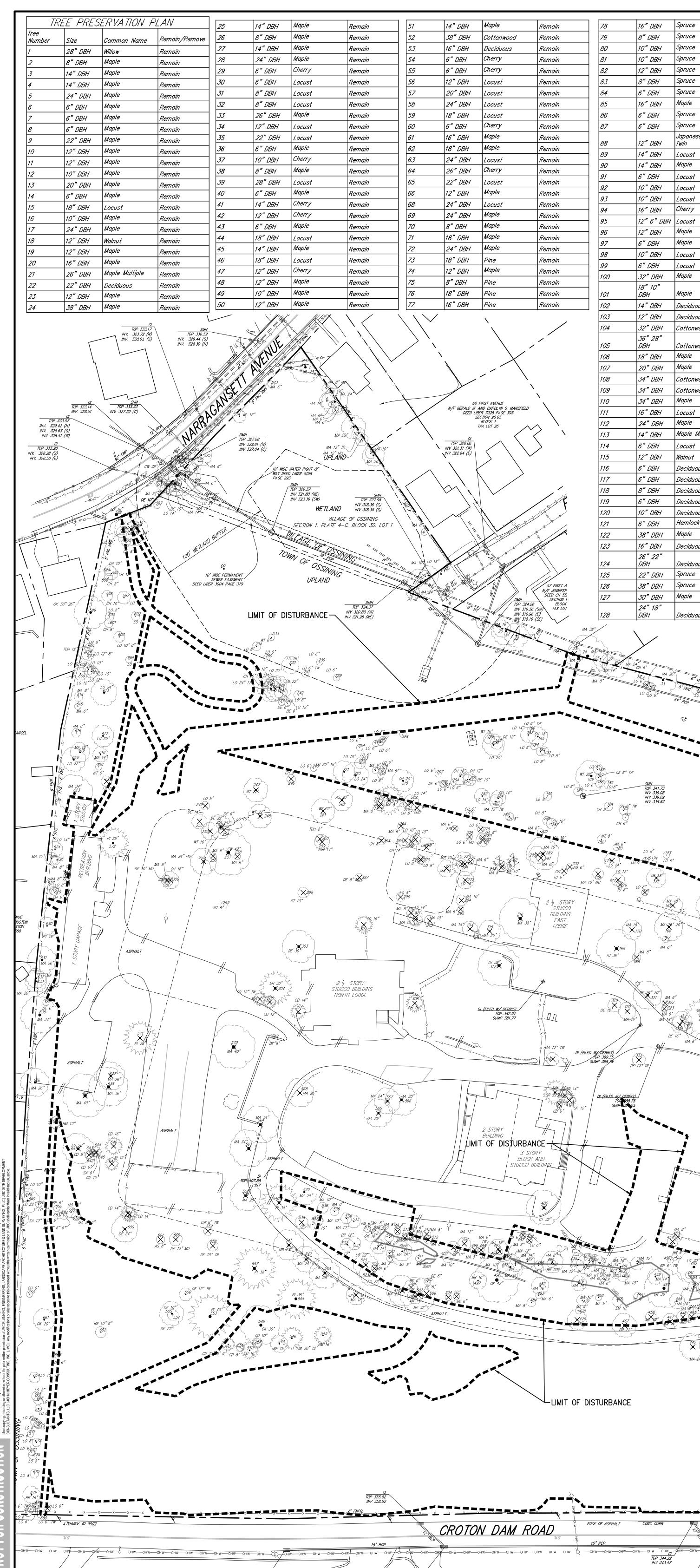
Table 9-2 (cont'd)2000-2005 NYS Breeding Bird Atlas (Block 5955A)

Common Name	Scientific Name				
Spotted Salamander	Ambystoma maculatum				
Northern Redback Salamander	Plethodon c. cinereus				
Northern Two-lined Salamander	Eurycea bislineata				
Eastern American Toad	Bufo a. americanus				
Fowler's Toad	Bufo fowleri				
Northern Spring Peeper	Pseudacris c. crucifer				
Bullfrog	Rana catesbeiana				
Green Frog	Rana clamitans melanota				
Wood Frog	Rana sylvatica				
Northern Water Snake	Nerodia s. sipedon				
Northern Brown Snake	Storeria d. dekayi				
Common Snapping Turtle	Chelydra s. serpentina				
Eastern Box Turtle	Terrapene c. carolina				
Painted Turtle	Chrysemys picta				
Notes: Boldface denotes state-list *Species identified on site	ed species of special concern.				
Sources: New York State Herp Atlas	s Project (1990-1999)				

 Table 3D

 New York State Herp Atlas Project (1990-1999)

Tree Survey



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5 DMH TOP 324.2 INV 316.30 INV 316.10 INV 318.10	DEED CN 55. SECTION 5 BLOCK 66 (SW) TAX LO1 66 (E)	127 128	30" DBH 24" 18" DBH	Maple Deciduous	Remove Remove	178 179 180	10 DBH 14" DBH 6" DBH	Locust Walnut	Remain Remain Remain	235 236	12" DBH 10" DBH
	57 FIRST A N/F JENNIFER DEED ON 55	125 126	22" DBH 38" DBH	Spruce Spruce	Remain Remain	176 177 178	6" DBH 12" DBH 10" DBH	Locust Maple Multiple	Remove Remain Remain	232 233 234	6" DBH 8" DBH
		123 124	16" DBH 26" 22" DBH	Deciduous Deciduous	Remain Remain	174 175 176	8" DBH 6" DBH	Locust Locust Tulip	Remain Remain Remove	230 231 232	6" DBH 6" DBH 16" DBH
N N	N. W. K.	121 122 123	6" DBH 38" DBH	Hemlock Multiple Maple	Remain Remain	172 173	18" DBH 6" DBH	Deciduous Locust	Remove Remain	228 229 230	6" DBH 6" DBH
		119 120	6" DBH 10" DBH	Deciduous Deciduous	Remain Remain	170 171	18" DBH 6" DBH	Maple Locust	Remove Remove	226 227	6" DBH 6" DBH
		117 118	6" DBH 8" DBH	Deciduous Deciduous Deciduous	Remain Remain	167 168 169	6" DBH 8" DBH 36" DBH	Maple Tulip	Remain Remove Remove	223 224 225	6" DBH 6" DBH
$\sum / $		114 115 116	6" DBH 12" DBH 6" DBH	Locust Walnut Deciduous	Remain Remain Remain	166 167	26" 20" DBH 6" DBH	Maple Maple	Remove Remain	221 222 223	10" DBH 6" DBH
1007 26	\langle , \rangle	112 113 114	24" DBH 14" DBH	Maple Maple Multiple	Remain Remain		6 DBH 24" DBH 18" DBH	Birch Cherry Maple	Remove Remove Remove	220	24" DBH 20" 18" DBH
T AVENUE CAROLYN S. MANSFIELD 1028 PAGE 395 W 90.05	\mathbf{X}	110 111	34" DBH 16" DBH	Maple Locust	Remain Remain	161 162 163	18" DBH 26" DBH 6" DBH	Spruce Spruce Birch	Remove Remove Remove	217 218 219	6" DBH 6" DBH 6" DBH
- \	N_	107 108 109	20" DBH 34" DBH 34" DBH	Maple Cottonwood Cottonwood	Remain Remain Remain		24" DBH 24" DBH	Spruce Spruce	Remove Remove	215 216 217	20" DBH 6" DBH
$\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{$		105 106	DBH 18" DBH	Cottonwood Maple Maple	Remain Remain	156 	12 DBH 8" DBH 28" DBH	Cedar Cedar Twin Spruce	Remove Remove Remove	213 214	26" DBH 8" DBH
`\		103 104	12" DBH 32" DBH 36" 28"	Deciduous Cottonwood	Remain Remain	154 155 156	8" DBH 8" DBH 12" DBH	Cedar Cedar	Remove Remove	210 211 212	8" DBH 8" DBH 8" DBH
Pine Pine	Remain Remain	101 102	18" 10" DBH 14" DBH	Maple Deciduous	Remove Remain	152 153	6" DBH 12" DBH	Cedar Cedar	Remove Remove	208 209	10" DBH 14" DBH
Pine Taple Pine	Remain Remain Remain	99 100	6" DBH 32" DBH	Locust Maple	Remove Remove	149 150 151	32" DBH 46" DBH 10" DBH	Spruce Oak Cedar	Remove Remove Remove	205 206 207	6" DBH 6" DBH 6" DBH
laple laple Pine	Remain Remain Remain	97 98	6" DBH 10" DBH	Maple Locust	Remove Remove	147 148	18" DBH 30" DBH	Cedar Spruce	Remove Remove	203 204 205	16" DBH 6" DBH 6" DBH
laple laple	Remain Remain	94 95 96	16" DBH 12" 6" DBH 12" DBH	Cherry Locust Maple	Remove Remove Remove	145 146	16" DBH 24" 22" 12"DBH	Deciduous Locust	Remain Remain	201 202	12" DBH 10" DBH
	Remain Remain Remain	<i>92</i> <i>93</i>	10" DBH 10" DBH	Locust Locust Cherry	Remove Remove	143 144	8" DBH 6" DBH	Locust Locust	Remain Remain	198 199 200	10" DBH 12" DBH 20" DBH
ocust Iaple ocust	Remain Remain Remain	90 91	14" DBH 6" DBH	Maple Locust	Remove Remove	140 141 142	6" DBH 8" DBH	Locust Deciduous	Remain Remain Remain	196 197 198	6" DBH 14" DBH 10" DBH
	Remain Remain		12" DBH 14" DBH	Japanese Maple Twin Locust	Remain Remain	138 139 140	6" DBH 6" DBH 8" DBH	Maple Maple Deciduous	Remain Remain Remain	<i>194</i> <i>195</i>	6" DBH 18" DBH
'herry ocust Iaple	Remain Remain	86 87	6" DBH 6" DBH	Spruce Spruce	Remain Remain	136 137 138	10" DBH 6" DBH 6" DBH	Locust Locust Maple	Remain Remain Remain	<i>192</i>	8" DBH 8" DBH
ocust Therry Taple Taple ocust Therry ocust Taple	Remain Remain Remain	83 84 85	6" DBH 6" DBH 16" DBH	Spruce Spruce Maple	Remain Remain Remain	134 135	6" DBH 6" DBH	Walnut Cedar Multiple	Remain Remain	189 190 191	28" DBH 8" DBH 8" DBH
ocust ocust ocust Cherry Maple Maple Ocust Cherry ocust Maple	Remain	81 82 83	10" DBH 12" DBH 8" DBH	Spruce Spruce Spruce	Remain Remain Remain	1 <i>32</i> 1 <i>33</i>	8" DBH 32" 30" DBH	Birch Multiple Maple	Remain Remain	187 188 189	6" DBH 8" DBH 28" DBH
ocust ocust herry Iaple Iaple ocust herry ocust Iaple	Remain	1 1		Spruce	Remain Remain	130 131	6" DBH 8" DBH	Deciduous Deciduous	Remain Remain	185 186	8" DBH 6" DBH
Therry ocust ocust ocust ocust fherry faple faple ocust therry ocust fherry faple	Remain Remain Remain Remain	78 79 80	16" DBH 8" DBH 10" DBH	Spruce	Remain	129	6" DBH	Locust	Remain	184	8" DBH

TOP 344.22 INV 343.47

Cherry	Remain
Locust	Remain
Locust	Remain
Deciduous Twin	Remain
Locust	Remain
Walnut	Remain
Locust	Remain
Deciduous	Remain
Locust	Remain
Locust	Remain
Locust	Remain
Cherry	Remain
Locust	Remain
Locust	Remain
Walnut	Remain
Deciduous	Remain
Locust Cherry	Remain
	Remain
Deciduous	Remain
Cherry	Remain
Locust	Remain
Locust	Remain
Deciduous	Remain
Locust	Remain
Locust	Remove
Locust	Remove
Cherry	Remove
Maple	Remove
Maple	Remove
Pine	Remove
Maple	Remove
Cherry	Remain
Locust	Remain
Maple	Remain
Locust	Remain
Maple	Remain
Locust	Remain
Locust	Remain
Locust Twin	Remain
Locust	Remain
Walnut	Remain
Locust	Remain
Locust	Remain
Cherry	Remain
Locust	Remain
Locust	
	Remain
Locust	Remain
Deciduous	Remain
Deciduous	Remain

 		Dense alte	294	10" DBH
BH	Walnut	Remain	295	6" DBH
BH	Locust	Remain	296	8" DBH
BH	Locust Cherry	Remain	297	8" DBH
BH	-	Remain	298	10" DBH
BH	Locust Locust	Remain	299	6" DBH
DBH DU	Locust	Remain Remain	300	16" DBH
BH DBH	Locust	Remain	301	10" DBH
BH	Locust	Remain	302	8" DBH
BH	Locust	Remain	303	30" DBH
γ, γΗ	Deciduous	Remain	304	30" DBH
., ?Н	Deciduous	Remain	305	12" DBH
			306	12" DBH
			307	14" DBH
1 T 2 SMH			308	16" DBH
/ IOP .	307.97 302.71(C)		309	16" DBH
			Г	
				TREE
	$d = \frac{1}{2}$	The "		
MA 18"	LO 24" LO 22" LO 24" X 65 LO 24"	4446 10 24" 67		AS
	WA 12"	MA 24"		BE
				BR
Y.		Con Son Star		CD CH
//		Rua 18" 30 PERSHING		СТ
	SMH TOP 308.78 INV 305.3± (SE)	N/F JOSEPH BL		cw
	INV 305.5± (NE)	DEED LIBER 7166 72 SECTION E MAA 24" BLOCK		DE
	ASPHALT	TAX LOT		DO EM
88 JMA 12		ZJ ZJ 18" ZZ MA 12"		EM HI
4) -				НМ
		787/677 787		JMA
Š	FI 16			
	1/2 STORY SR	SR 8" N/F JC BC GRAC		MA MU
	CO BUILDING SR			ОК
8 118	SR 12	3.183 E		PI
HOLE AT21		(MA)16"		SA SR
20372HN DE 10"	1 6" MU 122 - RPHALT SR			TOH
MOE		SR 6"		TR
	PLATE 4	21		TW
70"/	LOT 3A			TU WT
Smry	L 124 DE 26" 22"	5.5 ^N FN	L	
ZSR 22",	pory A			
2	SR 38"	×		
122	126	5 ^{,5}		
OR V	har !	>		
CK AGE				
			₩LF-63	▶ <i>MLF-64</i> ▶ <i>MLF-65</i>
			L	<u> </u>
\frown				
	$ \rightarrow $	355 356	<u> </u>	////////
	¹⁴ LO 48"	4 12" G 24"		
		357 > { SA 10"		
~~~r	$\sim$	>   SA 10"		120
`	<u>i</u>	358 {SA 14"		
		359 ) SA 6"		-170_
X	ASPHALT	360 [SA 6"		
	C. C	) 361 6" •) 362 •) 362 \$A 6"		
	Į.	- SA b	<u> </u>	<u> </u>
	Â	363 364 364		
		"JLo 12	xx-	xx
-				348 Ок 48")
			~	$\sim$
	XJU 9	~ LO 20"	$\sim$	
Ť.	371 STORY	765 MA 22"		
	BUILDING	10 24" 367		
6* 5C		6"		
374 20"			3	6" RCP
		70		8" SAN
5 BR 20	," <i>ν</i> _τ <i>ν</i> _τ	″		vww
	1 STORY		—G—G—G	GG
	CONC BLDG			
ì	G98		-опwОНW	V——ОНW——ОНW—
		> 24 CROTON DAM R N/F JOHNATHAN E.		Ш
		DEED CN 551283C SECTION 89.12 BLOCK 2		0
		TAX LOT 5		ж,
I J				GV M
<b>F</b>				wv M
				-0-
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FOF				
696 DE 38"	0 ⁴ DE 38 × ×			
- OHH-	<u> </u>	L		
		M	<u>0TES:</u>	
онш-оі	ни—ону—ону—ону—			
			EXISTING SURVEY P	CONDITIONS DEPICTE PREPARED BY JMC, F

245	6" DBH	Locust	Romain
245 246	6 DBH 8" DBH	Locust Cherry	Remain Remove
247	22" DBH	Walnut	Remove
248	22" DBH	Walnut	Remove
249	8" DBH	Locust	Remove
250	14" DBH	Deciduous	Remove
251	22" DBH	Deciduous	Remove
252	6" DBH	Deciduous	Remove
253	16" DBH	Walnut	Remove
254	10" DBH	Locust	Remove
255 256	24" DBH 6" DBH	Maple Multiple Maple	Remove
250 257	42" DBH	Cottonwood	Remove Remove
257 258	6" DBH	Maple	Remove
 259	14" DBH	Tree of Heaven	Remove
260	8" DBH	Tree of Heaven	Remove
261	22" DBH	Walnut	Remove
262	20" DBH	Ash	Remove
263	8" DBH	Cherry	Remove
264	6" DBH	Maple	Remove
265	14" DBH	Cherry	Remove
266	10" DBH	Locust	Remove
267 268	10" DBH 18" DBH	Locust	Remove
208 269	8" DBH	Locust Locust	Remove Remove
270	8" DBH	Locust	Remove
271	16" DBH	Maple	Remove
272	16" DBH	Locust	Remove
273	10" DBH	Maple	Remove
274	22" DBH	Locust	Remove
275	6" DBH	Maple	Remove
276	6" DBH	Maple	Remove
277	6" DBH	Cherry	Remain
278	6" DBH 6" DBH	Locust Multiple	Remove
279 280	6" DBH	Locust Maple	Remove Remove
281 281	12" DBH	Locust	Remove
282	14" DBH	Locust	Remain
283	12" DBH	Maple Twin	Remain
284	14" DBH	Cherry	Remain
285	8" DBH	Cherry	Remain
286	8" DBH	Cherry	Remain
287	10" DBH	Cherry	Remain
288	6" DBH	Maple	Remain -
289	30" DBH	Maple Maple	Remove
290	16" DBH 8" DBH	Maple	Remove
291 292	10" DBH	Maple	Remove Remove
292 293	8" DBH	Maple	Remove
294 294	10" DBH	Maple	Remove
295	6" DBH	Maple	Remove
296	8" DBH	Locust	Remove
297	8" DBH	Deciduous Multiple	Remove
298	10" DBH	Walnut	Remove
299	6" DBH	Walnut	Remain
300	16" DBH	Cherry	Remove
301	10" DBH	Maple	Remove
302	8" DBH	Deciduous Multiple	_
303	30" DBH	Deciduous Spruce	Remove
304 305	30" DBH	Spruce Cedar Twin	Remove Remove
305 306	12" DBH	Cedar	_
306 307	12 DBH 14" DBH	Cedar	Remove Remove
307 308	16" DBH	Spruce	Remove Remove
309	16" DBH	Cedar	Remove
	KEE A	BBREVIA	
	AS BE	ASH BEECI	.
	BR	BRICH	
	CD	CEDAF	2



	EXISTING PROPERTY LINE
	ADJACENT PROPERTY LINE
F-65	EXISTING EASEMENT LINE
.7 –00	EXISTING WETLAND LINE AND DELINEATION
	EXISTING BUILDING OVERHANG
	EXISTING BUILDING LINE
	EXISTING PAVEMENT EDGE
	EXISTING CURB LINE
	EXISTING CONTOUR
	EXISTING INDEX CONTOUR
	EXISTING STONE WALL
	EXISTING RETAINING WALL
	EXISTING GUIDE RAIL
	EXISTING FENCE
	Existing tree and designation
	EXISTING TREE LINE
	EXISTING DIRECTIONAL ARROWS
	EXISTING PAINT
	EXISTING STORM DRAIN LINE AND SIZE
	EXISTING SANITARY LINE AND SIZE
	EXISTING WATER LINE
	EXISTING GAS LINE
	EXISTING OVERHEAD WIRES
	EXISTING DRAIN INLET
	EXISTING MANHOLE
	EXISTING FIRE HYDRANT
	EXISTING GAS VALVE
	EXISTING WATER VALVE
	EXISTING UTILITY POLE
	EXISTING LIGHT POLE
	EXISTING SIGN

310	8" DBH	Maple	Remove
311	14" DBH	Ash	Remove
312	12" DBH	Maple	Remove
313	10" DBH	Maple	Remove
314	14" DBH	Maple	Remove
315	20" DBH	Maple	Remove
316	38" DBH	Maple	Remove
317	38" DBH	Tulip	Remove
318	12" DBH	Maple Twin	Remove
319 320	12" DBH 12" DBH 16" DBH	Deciduous Maple	Remove Remove
321 322	26" 20" DBH 6" DBH	Deciduous Maple	Remove Remove
323	6" DBH	Maple	Remove
324	18" DBH	Maple	Remove
325	16" DBH	Deciduous	Remove
326	6" DBH	Maple	Remain
327	34" DBH	Spruce	Remove
328	32" DBH	Spruce	Remove
329	22" DBH	Spruce	Remove
330	14" DBH	Spruce	Remove
331	6" DBH	Cedar	Remove
332	12" DBH	Spruce	Remove
333	12" DBH	Deciduous Triple	Remove
334	38" DBH	Cedar	Remove
335	16" DBH	Cedar	Remove
336	18" DBH	Deciduous	Remove
337	12" DBH	Cedar	Remove
338	14" DBH	Cedar	Remove
339	12" DBH	Cedar	Remove
340	14" DBH	Cedar	Remove
341	12" DBH	Cedar	Remove
342	14" DBH	Cedar Twin	Remove
343	36" DBH	Pine	Remove
344	26" DBH	Pine	Remove
345	20" DBH	Pine	Remove
346	8" DBH	Cedar	Remove
347	18" DBH	Hemlock	Remove
348	12" DBH	Cedar	Remove
349	14" DBH	Cedar	Remove
350	12" DBH	Cedar	Remove
351	14" DBH	Cedar	Remove
352	28" DBH	Maple	Remove
353	14" 8" DBH	Deciduous	Remove
354	48" DBH	Locust	Remain
355	24" DBH	Locust	Remain
356	12" DBH	Maple	Remain
357	11" DBH	Sassafras	Remain
358	14" DBH	Sassafras	Remain
358	6" DBH	Sassafras	Remain
359		Sassafras	Remain
360		Sassafras	Remain
361	6" DBH	Sassafras	Remain
362	6" DBH	Sassafras	Remain
363 364 365	6" DBH 12" DBH	Sassafras Sassafras	Remain Remain
365	20" DBH	Locust	Remain
366	22" DBH	Maple	Remain
367	24" DBH	Locust	Remain
368	26" DBH	Locust	Remain
369	12" DBH	Maple	Remain
370	6" DBH	Walnut	Remain
371	24" DBH	Maple	Remain
372	22" DBH	Ash	Remain
372 373 374	6" DBH 20" DBH	Maple Maple	Remain Remain
375	20" DBH	Birch	Remain
376	26" DBH	Maple	Remain
377	16" DBH	Maple	Remain
378	10" DBH	Maple	Remain
379	10" DBH	Maple	Remain
380	10" DBH	Maple	Remain
381	12" DBH	Maple	Remain
382	34" DBH	Oak	Remain
383	28" DBH	Maple	Remain
384	24" DBH	Oak	Remain
385	10" DBH	Maple	Remain
386	12" DBH	Maple	Remain
387 388 799	14" DBH 10" DBH	Maple Maple Mape	Remain Remain
389 390 391	14" DBH 22" DBH 6" DBH	Maple Maple	Remain Remain Remain
392	28" DBH	Pine	Remain
393	22" DBH	Oak	Remain
394	10" DBH	Hickory	Remain
395	6" DBH	Maple Twin	Remain
396	10" DBH	Hickory	Remain
397	30" DBH	Hickory	Remain
398	8" DBH	Maple	Remain
399 400	6" DBH 34" DBH	Maple Maple Maple	Remain Remain
401 402 403	6" DBH 8" DBH 30" DBH	Maple Oak	Remain Remain Remain
404	16" DBH	Birch	Remain
405	6" DBH	Maple	Remain
406	12" DBH	Birch	Remain
407	8" DBH	Maple	Remain
408	12" DBH	Maple	Remain
409	6" DBH	Maple	Remain
410	8" DBH	Maple	Remain
411 412	12" DBH 6" DBH	Maple Maple Maple	Remain Remain
413 414 415	12" DBH 22" DBH 20" DBH	Pine Pine	Remove Remain Remove
416	12" DBH	Pine	Remain
417	8" DBH	Maple	Remain
418	6" DBH	Maple	Remain
419	24" DBH	Oak	Remain
420	12" DBH	Oak	Remain
421	20" DBH	Maple	Remove
422	8" DBH	Maple	Remove
423	16" DBH	Maple	Remove
424	12" DBH	Maple	Remain
425	10" DBH	Maple	Remain
426	48" DBH	Oak	Remain
427	12" DBH	Maple	Remain
428	14" DBH	Maple	Remain
429	12" DBH	Maple	Remain
430	10" DBH	Maple	Remain
431	6" DBH	Maple	Remain
432	18" DBH	Maple	Remove
433	24" DBH	Pine	Remove
434	12" DBH	Maple Twin	Remove
435	18" DBH	Maple	Remain
436	6" DBH	Maple	Remain
437	12" DBH	Maple	Remain
438	14" DBH	Maple	Remain
4 <i>39</i>	6" DBH	Maple	Remove
440	10" DBH	Maple	Remove
441	24" DBH	Maple	Remove
442	24" DBH	Maple	Remove
443	6" DBH	Maple	Remain
445 444 445	6" DBH 6" DBH 6" DBH	Maple Maple	Remain Remove
446	12" DBH	Maple	Remove
447	14" DBH	Maple	Remove

449

4.50

4.51

4.52

4.57

47.3

5.59

56.3

56.5

EXISTING CONDITIONS DEPICTED ON THIS PLAN HAVE BEEN TAKEN FROM SURVEY PREPARED BY JMC, PLLC.

	14" DBH	Maple	Remain	587	6" DBH	Walnut	Remain
	12" DBH 10" DBH	Maple Maple	Remain Remain	588 589	38" DBH 6" DBH	Locust Cherry	Remain Remain
	6" DBH	Maple	Remain	590 501	30" DBH	Locust Cherry	Remain
	30" DBH 8" DBH	Locust Maple	Remain Remove	591 592	6" DBH 10" DBH	Cherry	Remain Remain
	10" DBH 6" DBH	Locust Birch	Remove Remain	593 594	8" DBH 10" DBH	Cherry Cherry	Remain Remain
	6" DBH 36" DBH	Birch Twin Oak	Remain Remain	595 596	12" DBH 8" DBH	Cherry Cherry	Remain Remain
	10" DBH	Maple	Remove	597	12" DBH	Locust	Remain
	14" DBH 12" DBH	Maple Maple	Remain Remain	598	10" DBH 30" 26"	Cherry	Remain
	18" DBH 14" DBH	Maple Maple	Remain Remain	599 600	DBH 8" DBH	Oak Locust	Remain Remain
	10" DBH	Birch	Remain	601 602	8" DBH 8" DBH	Cherry Locust	Remain Remain
	10" DBH 8" DBH	Maple Hickory	Remain Remain	603	10" 8" DBH	Locust	Remain
	10" DBH 22" DBH	Elm Birch	Remain Remove	604 605	6" DBH 8" DBH	Locust Cherry	Remain Remain
	6" DBH	Maple Maple	Remain	606 607	12" DBH 12" 8" DBH	Tree of Heaven Locust	Remain Remain
	6" DBH 6" DBH	Maple	Remain Remain	608 609	10" DBH 12" DBH	Locust Locust	Remain Remain
	12" DBH 8" DBH	Maple Maple	Remain Remain	610	10" DBH	Locust	Remain
	18" DBH 12" DBH	Maple Maple Triple	Remain Remain	611 612	12" DBH 10" DBH	Locust Locust	Remain Remain
	12" DBH	Maple	Remain	613 614	24" DBH 8" DBH	Locust Maple	Remain Remain
	14" DBH 10" DBH	Maple Maple	Remain Remain	615	6" DBH	Maple Maple	Remain
	6" DBH 18" DBH	Maple Maple	Remain Remove	616 617	8" DBH 20" DBH	Locust	Remain Remain
	20" DBH	Birch	Remain	618 619	14" DBH 18" DBH	Maple Maple	Remain Remain
	8" DBH 16" DBH	Maple Maple	Remain Remain	620 621	22" DBH 6" DBH	Locust Walnut	Remain Remain
	6" DBH 8" DBH	Maple Maple	Remain Remain	622	10" DBH	Locust	Remove
	8" DBH 32" DBH	Elm Chestnut	Remain Remove	623 624	34" DBH 14" DBH	Maple Locust Triple	Remain Remain
	6" DBH	Cedar	Remove	625 626	12" DBH 8" DBH	Maple Maple Triple	Remain Remain
_	6" DBH 14" DBH	Cedar Maple	Remain Remain	627	8" DBH	Maple	Remain
	12" DBH 24" DBH	Maple Maple	Remain Remain	628 629	8" DBH 6" DBH	Locust Cherry	Remain Remain
	10" DBH	Maple	Remain	630 631	16" DBH 26" DBH	Walnut Maple	Remain Remain
	6" DBH 6" DBH	Maple Maple	Remain Remove	632	18" DBH 20" DBH	Maple Maple	Remain
	18" DBH 42" DBH	Maple Oak	Remove Remain	633 634	6" DBH	Deciduous	Remain Remain
	16" DBH	Birch Maple Twin	Remain	635 636	34" DBH 26" DBH	Maple Maple	Remain Remain
	6" DBH 8" DBH	Maple	Remove Remove	637 638	26" DBH 36" DBH	Maple Maple	Remove Remove
	12" DBH 12" DBH	Maple Oak	Remove Remove	639	40" DBH	Maple	Remove
	10" DBH 6" DBH	Maple Beech	Remain Remove	640 641	12" DBH 28" DBH	Hemlock Locust	Remain Remove
	6" DBH	Beech	Remove	642 643	8" DBH 6" DBH	Cedar Cedar	Remove Remove
	6" DBH 8" DBH	Beech Beech	Remain Remove	644	10" DBH	Cedar	Remove
	32" DBH 14" DBH	Beech Beech	Remove Remove	645 646	6" DBH 16" DBH	Sassafras Cedar	Remove Remove
	6" DBH	Beech	Remove	647 648	12" DBH 10" DBH	Pine Locust	Remove Remain
	28" DBH 6" DBH	Maple Maple	Remove Remain	649 650	22" DBH 6" DBH	Locust	Remain Bomain
	8" DBH 8" DBH	Maple Maple	Remove Remove	651	12" DBH	Locust Sassafras	Remain Remain
	12" DBH 6" DBH	Maple Maple	Remove	652 653	6" DBH 6" DBH	Birch Cherry	Remain Remain
	6" DBH	Maple	Remove Remove	654	8"6"6" DBH	Maple	Remain
	18" DBH 6" DBH	Maple Maple	Remain Remain	655 656	10" DBH 8" 6" DBH	Maple Maple	Remain Remain
	8" DBH 6" DBH	Maple Maple	Remain Remain	657	14" DBH	Cedar	Remove
	6" DBH	Maple	Remain	658 659	14" DBH 24" DBH	Cedar Deciduous	Remove Remove
	6" DBH 22" DBH	Maple Locust	Remove Remove	660 661	6" DBH 20" DBH	Cherry Oak	Remain Remain
	18" DBH 22" DBH	Maple Locust	Remove Remove	662 663	10" 6" DBH 6" DBH	Birch Oak	Remain Remain
	14" DBH	Maple Maple	Remain	664	10" DBH	Locust Twin	Remain
	8" DBH 6" DBH	Maple	Remain Remain	665 666	8" DBH 8" DBH	Locust Locust	Remain Remain
	16" DBH 6" DBH	Oak Elm	Remain Remain	667 668	6" DBH 8" DBH	Locust Locust	Remain Remain
	12" DBH 12" DBH	Birch Ash	Remain Remain	669 670	6" DBH 6" DBH	Locust	Remain
	12" DBH	Maple	Remain	670 671	6" DBH	Locust Cherry	Remain Remain
	10" DBH 8" DBH	Maple Maple	Remain Remain	672 673	8" DBH 6" DBH	Locust Locust	Remain Remain
	10" DBH 10" DBH	Maple Hemlock	Remain Remain	674 675	8" DBH 8" DBH	Locust Locust	Remain Remain
	12" DBH 24" DBH	Oak Maple	Remove Remain	676	16" DBH	Birch	Remain
	34" DBH	Pine	Remove	677 678	6" DBH 6" DBH	Locust Twin Locust	Remain Remain
	28" DBH 24" DBH	Maple Maple	Remove Remove	679 680	6" DBH 6" DBH	Locust Locust Twin	Remain Remain
	28" DBH 36" DBH	Maple Pine	Remove Remain	681	6" DBH	Locust Maple	Remove
	16" DBH	Hemlock	Remain	682 683	44" DBH 40" DBH	Maple	Remove Remove
	20" DBH 16" DBH	Hemlock Birch	Remain Remain	684 685	38" DBH 8" 6" DBH	Maple Maple	Remove Remove
	36" DBH 10" DBH	Oak Cedar	Remain Remain	686 687	25" DBH 6" DBH	Pine Deciduous	Remove Remove
	16" DBH 8" DBH	Cedar Cedar	Remain Remain	688	6" DBH	Maple Maple	Remain
	8 DBH 12" 8" 6" DBH	Cedar Cedar	Remain	689 690	6" DBH 6" DBH	Walnut	Remove Remove
	40" DBH	Pine	Remain	691 692	36" DBH 8" DBH	Maple Birch	Remain Remain
	10" DBH 22" DBH	Deciduous Deciduous	Remain Remain	693 694	6" DBH 6" DBH	Maple Cedar	Remain Remain
	12" DBH 38" DBH	Deciduous Triple Pine	Remain Remove	695	8" DBH	Deciduous	Remain
	10" DBH 8" DBH	Deciduous Triple Dw Twin	Remove Remove	696 697	38" DBH 38" DBH	Deciduous Deciduous	Remove Remove
	12" DBH	Deciduous Multiple	Remove	698 699	22" DBH 22" DBH	Maple Maple	Remain Remain
_	8" DBH 28" DBH	Ash Maple	Remove Remove	700	6" DBH	Locust	Remain
	34" DBH 34" DBH	Maple Maple	Remove Remove	701 702	6" DBH 6" DBH	Tulip Elm	Remain Remain
	26" DBH	Maple	Remove				
	29" DBH 24" DBH	Maple Maple	Remove Remove				
	26" DBH 8" DBH	Maple Deciduous	Remove Remain				
	40" DBH 30" DBH	Maple Pine	Remove Remove				
	28" DBH	Pine	Remain				
	6" DBH 12" DBH	Maple Willow	Remain Remain				
	20" DBH 8" DBH	Maple Maple	Remain Remain				
	30" DBH	Locust	Remain				
	38" DBH 6" DBH	Cottonwood Maple	Remain Remain				
	6" DBH 24" DBH	Maple Locust	Remain Remain				
	14" DBH 10" DBH	Maple Maple	Remain Remain				
	10" DBH	Deciduous	Remain				
	14" DBH	Locust	Remain				



**Biologist's Resumes** 

# Sarah A. Bray

#### SENIOR ENVIRONMENTAL SCIENTIST

Ms. Bray is an environmental scientist and landscape designer with over seven years of experience in conducting wetland delineations, wetland restoration, permitting, creating upland and wetland planting plans, preparation of environmental review documents, and conducting avian monitoring surveys. Ms. Bray holds a Master's Degree in Ecological Landscape Planning and Design, is an ISA certified Arborist, and holds a certification in Wetland Science and Management. She is a NYSDEC Certified Erosion and Sediment Control Inspector. She has provided wetland and upland restoration specialist and construction monitoring services on NYCDEP and NYCDDC projects, including the OGI New York City-wide Bioswale project, assisted in the preparation of cultural landscape review documents, provided Arborist services, and has worked on Draft EIS documents. She is proficient in the identification of plant species native to New York and New Jersey. She is also experiences in the identification of invasive species and has identified and overseen implementation of measures to eradicate invasive species. She is experienced in design and oversight of installation of restoration plans in accordance with state wetland permit requirements and overseen the implementation of projects in accordance with USACE and state wetland permit conditions. Ms. Bray has contributed to the design and installation of soil erosion and sediment control measures and native plant landscape designs in both highly disturbed as well as pristine environments.

#### BACKGROUND

#### Education

M.A. Ecological Landscape Planning and Design, Conway School of Landscape Design

B.A., Environmental Studies, (Studio Art, Minor), Oberlin College

Wetland Science and Management Certification, University of Washington Seattle

#### **Certifications**

NYSDEC Certified Erosion & Sediment Control Inspector (SWT# 15T-120513-5)

ISA Certified Arborist (#NJ-1084A)

Wetland Science and Management Certification, University of Washington, Seattle, WA, 2003.

OSHA 10 hour Construction Industry Outreach, November 2010

OSHA 40-hour Hazwoper training, December 2010

OSHA 8-Hour Hazwoper refresher, March 2011 thru 2016

Urban Stormwater Management and Low Impact Development webinar, February 2014

#### **RELEVANT EXPERIENCE**

# Newtown Creek, DEP Office of Green Infrastructure (OGI) – Right of Way Bioswale (ROWB) and Stormwater Green Streets (SGS) Project (Contract #53320002)

As the prime consultant to the New York City Economic Development Corporation (EDC) and DEP, AKRF is working with EDC Capital Projects and DEP's Office of Green Infrastructure (OGI) on Right-of-Way Bioswale (ROWB) and Stormwater Green Streets (SGS) projects in the Newtown Creek tributary area. Our contract area covers approximately 510 acres in the Bedford Stuyvescent neighborhood of Brooklyn, NY. AKRF is leading the effort on all aspects of the project including hydraulic analysis, site assessment, soil testing and field exploration,



#### SENIOR ENVIRONMENTAL SCIENTIST

design, permitting and construction monitoring. To meet DEP's Consent Order deadlines, AKRF understands DEP's need to meet planning, design and construction milestones. Our thorough knowledge of green infrastructure, ROWB standards, multiple agency/utility requirements and design criteria has provided DEP with the highest level of technical and project management skills. Out of several contract areas, AKRF's contract area was chosen by EDC/DEP to be bid first due to our expedited project management process. We are currently in design for over 400 ROWBs and approximately 10 SGS areas. Ms. Bray is conducting landscape review and approval of constructed bioswales.

#### Amy's Kitchen Manufacturing Facility, Goshen, NY

p. 2

Amy's Kitchen—a family-owned business that has been manufacturing organize vegetarian convenience and frozen foods since 1987—plans to build an approximately 600,000-square-foot manufacturing facility in the Town of Goshen, New York. Amy's Kitchen retained AKRF to estimate the economic and fiscal benefits that would be generated by the proposed facility, and to examine whether the local labor and housing markets can meet the projected labor demand. AKRF also provided geotechnical engineering services as well. Ms. Bray conducted preliminary wetland investigation and habitat assessment services for this project.

#### Village Planning Services, Irvington, NY

AKRF was retained to serve as the Village planner. As part of our scope services, AKRF is responsible for providing site plan and subdivision application review on as-requested basis. In addition, the firm manages the Environmental Impact Statement (EIS) under SEQRA for site plans or subdivisions that do not receive a Negative Declaration. The firm also advises on application or other planning needs to the Village Board, Council, and Committees. Ms. Bray reviewed the Draft EIS or this project.

#### Merestead Site Development, Mount Kisco, NY

Ms. Bray assisted in the development of the Cultural Landscape Report for this project. In addition to the report, AKRF was also retained to analyze the septic and water systems, as well as, traffic circulation and parking.

#### Steiner NYC - HUB, New York, NY

AKRF provided site/civil design services for Steiner NYC's 54-story development located at 333 Schermerhorn Street in Downtown Brooklyn. Design and permitting tasks included obtaining the following agency approvals: Site Connection Proposal from NYC Department of Environmental Protection (DEP), Builders Pavement Plan and Curb Cut Applications from NYC Department of Buildings (DOB), Street Tree Plan from NYC Department of Parks and Recreation (DPR), and approval from NYC Transit related to proposed modifications to existing MTA infrastructure. AKRF is currently providing construction administration services related to utility installation and sidewalk/roadway improvements. Ms. Bray provided on-site Arborist services for construction for this project.

#### Ethical Culture Fieldston School, Bronx, NY

At the Fieldston School Campus, located in the Bronx, NY, AKRF provided site/civil design services related to sidewalk and stairway replacement as well as the installation of a new synthetic turf field. AKRF worked closely with the school to design a multiuse turf field with an expedited design and construction schedule. AKRF's oversight during the construction phase has assisted in keeping the project on schedule to open for the Spring sports season in 2016. Ms. Bray provided on-site Arborist services for construction for this project.



NATURAL RESOURCES

Jesse Moore has a background in terrestrial and aquatic ecology, with practical experience in wetland delineation, threatened and endangered species surveys, habitat assessment, vegetation surveys, ecological restoration, hydrologic monitoring, sedimentation monitoring, and acoustic tracking. Prior to entering the environmental consulting field he worked for the New York City Department of Parks and Recreation's Natural Resources Group, where Mr. Moore was involved in a variety of ecological restoration activities. He has worked on restoration projects related to the Bronx River including: an alewife reintroduction program, oyster reef habitat restorations, bank stabilization and erosion control, and reforestation within the Bronx River floodplain. Most recently, Jesse Moore has been involved in wetland delineations, environmental permitting, and preparation of National Environmental Policy Act (NEPA) documents for projects related to transportation infrastructure.

#### BACKGROUND

#### Education

B.S. Environmental and Forest Biology, Magna Cum Laude, State University of New York, Syracuse, NY

M.S. Aquatic Science, University of Michigan, Ann Arbor, MI

#### Years of Experience

Year started in company: 2012 Year started in industry: 2005

#### **Certifications**

Rutgers University Wetland Delineation Series Certificate, 2012

#### **RELEVANT EXPERIENCE**

#### Tappan Zee Hudson River Crossing Project, Rockland and Westchester Counties, NY

AKRF was brought on board by the office of the New York State Governor to prepare the environmental impact statement (EIS) for the replacement of the Tappan Zee Bridge, which carries the New York State Thruway (Interstate 87/287) across the Hudson River between Rockland and Westchester Counties, New York. The bridge, which is owned and maintained by the New York State Thruway Authority (NYSTA), is a critical link in the local and regional transportation network. The existing bridge was built in the 1950s and does not meet current seismic and operational design standards. The replacement bridge would include two new parallel structures having a total of eight travel lanes, full width shoulders and travel lanes, emergency access, and a shared-use pedestrian/bicycle path. The EIS was prepared in accordance with the National Environmental Policy Act (NEPA) and the State Environmental Quality Review Act (SEQRA) with the Federal Highway Administration (FHWA) as the federal lead agency and the New York State Department of Transportation (NYSDOT) and NYSTA as joint lead agencies.

After ten years of project development by others, AKRF was selected to lead the environmental review process at a critical point when the project was fast-tracked by President Barack Obama as one of 14 high-priority infrastructure projects across the country. AKRF staff worked intensively to complete a Draft EIS in about four months, meeting all schedule targets. Following a robust public review, AKRF prepared the Final EIS in three



#### NATURAL RESOURCES p. 2

months with the overall schedule resulting in a Record of Decision less than 11 months following the Notice of Intent. The EIS analyses cover the full range of issues associated with a major bridge replacement project, including noise, air quality, ecology, water quality, and construction impacts. The efforts to complete the EIS were coordinated with permitting requirements, including a biological assessment, essential fish habitat assessment, Phase I and Phase II site assessments, pile installation demonstration project, and development of a memorandum of agreement under Section 106 of the National Historic Preservation Act.

AKRF continues to work on the Tappan Zee Hudson River Crossing Project as lead environmental consultant to the project team, with responsibility for securing all environmental permits, providing environmental oversight to the procurement of a design-build contract, and for ensuring that the mitigation and other requirements of the EIS are carried forward.

Mr. Moore conducts mobile tracking via boat of acoustic-tagged Atlantic and shortnose sturgeon within the Hudson River from the George Washington Bridge north to Peekskill, NY. He also monitors movement of sturgeon within the construction zone of the Tappan Zee Bridge using an array of acoustic receivers, and monitors sedimentation on Piermont Marsh, south of the Tappan Zee Bridge.

#### Marine Parkway Gil Hodges Memorial Bridge, Brooklyn and Queens, NY

The Triborough Bridge and Tunnel Authority (TBTA) is proposing to implement scour protection measures at the Marine Parkway Gil Hodges Memorial Bridge piers to mitigate the scour risk at the facility over Rockaway Inlet. AKRF prepared an Environmental Assessment Form (EAF) with supplemental studies, including potential impacts during operation and construction, as well as an evaluation of alternatives that resulted in selection of a preferred alternative for the project. The EAF and supplemental studies focused on the analyses of cultural resources, water quality, and natural resources. The firm prepared documentation for the Consistency Determination with the New York State Department of State (NYSDOS) in coordination with the New York City Department of City Planning (NYCDCP) and concurrent with the environmental review process. Potential impacts during construction that required evaluation included: resuspension of sediments which could introduce contaminants into the water column or smother bottom dwelling organisms; loss of bottom or water column habitat; and impacts to fish species that migrate through Rockaway Inlet. AKRF coordinated all environmental services needed for procurement of permits and approvals from the New York State Department of Environmental Conservation (NYSDEC) and U.S. Army Corps of Engineers (USACE) associated with the construction of the proposed project. AKRF also coordinated the selection of a mitigation site at Rulers Bar Marsh, part of the National Park Service's Gateway National Recreation Area (GNRA), and continues to provide wetland monitoring services per NYSDEC and USACE permit conditions.

Mr. Moore conducted wetland monitoring at the Rulers Bar mitigation site and the control site. Wetland monitoring included the collection of soil samples, site photographs, vegetation monitoring of plots and subplots, and benthic macroinvertebrates.

# DEP Delaware Aqueduct Rondout-West Branch Tunnel Repair Program Environmental Impact Statement (EIS) and Permitting, Various Locations, NY

AKRF led the environmental assessment and permitting efforts for the Delaware Aqueduct Rondout-West Branch Tunnel (RWBT) Repair Program, in association with the Joint Venture (JV) engineering team of Hatch Mott McDonald and Malcolm Pirnie/Arcadis. The preparation of the first Environmental Impact Statement (EIS 1) for the program and the federal, state and local permits and approvals proceeded simultaneously, to ensure that the program meets a 2013 date for groundbreaking.

The construction of the bypass tunnel involves multiple geographic and jurisdictional challenges and complex project phasing. It required extensive permit and approval requirements and detailed technical analyses in a number of environmental areas, including traffic, air quality, noise, visual impacts, and impacts to historic and natural resources.



#### NATURAL RESOURCES p. 3

Working in close collaboration with DEP's Bureau of Environmental Planning and Analysis (BEPA) and the Bureau of Engineering Design and Construction (BEDC) Permit Resource Division (PRD), AKRF led the effort to identify all necessary federal, state and local permits and approvals necessary to begin site preparation and shaft construction for the RWBT bypass tunnel, as well as to construct the tunnel itself and connect it to the existing aqueduct. As per PRD procedure, AKRF completed a Permit Identification Checklist to ensure that all requisite permits had been identified, and tracked each permit in the Permit Tracking Database throughout the application process. In cooperation with PRD and BEPA, AKRF continuously engaged project designers from DEP In-House Design (IHD) and the JV to ensure that all design decisions, information and materials necessary for permit applications were developed in a timely manner while minimizing environmental impacts and the need for mitigation.

In parallel with the permits and approvals process, AKRF prepared a City Environmental Quality Review (CEQR)/State Environmental Quality Review Act (SEQRA) EIS to evaluate potential impacts resulting from construction of the shafts and bypass tunnel. As with permitting, it was essential to work closely with project designers to achieve consensus on the design decisions and information necessary to complete the EIS analyses. Constant communication with BEPA, PRD, BCIA, IHD and the JV kept the necessary information flowing and the EIS process on track.

During the preparation of the EIS and permit applications, AKRF helped address a number of critical issues in order to prevent delays and other adverse effects to the project. One example was the identification and characterization of potential Indiana Bat habitat on both shaft sites, which allowed trees to be cleared before the April 1st seasonal deadline imposed by New York State Department of Environmental Conservation (NYSDEC) and US Fish and Wildlife (USFWS), so that the geotechnical boring program and the essential design tasks that depend on it could proceed without delay. In another instance, AKRF identified the importance of noise abatement measures for the geotechnical boring program at Shaft 6, conducted extensive noise modeling and monitoring to quantify the performance of such measures, and helped project designers incorporate them into the bid documents. This was a critical component of obtaining site plan approval from the Town of Wappinger for the geotechnical boring program.

With the issuance of DEP's Notice of Completion and Statement of Findings on the Final EIS, and with the receipt of the permits needed to achieve groundbreaking in 2013, AKRF turned its efforts to completing a number of transition documents to prepare the project for the start of construction. Most recently, AKRF began work on a Regulatory Transition Plan from Design to Construction, which outlines the project's environmental commitments and obligations, including permit conditions, establishes procedures for document transfer, and assigns roles for permit and regulatory compliance.

Mr. Moore conducted surveys for Indiana bat habitat, vegetation, and ecological communities within Newburg, New York. He also conducted onsite wetland investigations within the area of disturbance.

#### National Grid Wildwood Substation, Brookhaven, NY

AKRF conducted an ecological assessment for the Wildwood Substation Environmental Assessment. Mr. Moore performed a threatened and endangered plant species survey and identified two species and numerous plants throughout the project site. Following the identification, stem counts, and flagging of these plants, he coordinated and provided oversight to the landscaping team to ensure the survival of the plants during the transplanting process.

#### New York City Department of Design and Construction (DDC)

The firm was retained by the New York City Department of Design and Construction (DDC) to assist in the preparation of EASs for DDCs proposal to install separate sewer system components and outfalls in the following areas: City Island,Bronx, Todt Hill, Staten Island, and Ozone Park, Hammels, Edgemere, and Bayswater, Queens.



#### NATURAL RESOURCES p. 4

Mr. Moore conducts the natural resources investigations and authors the natural resource sections for the Environmental Assessment Statements (EASs). The most recent projects are located in the Amboy-Huguenot, Bradley-Willowbrook, and South-Forest locations of Staten Island and Hook Creek-Brookville section of Queens. Mr. Moore conducted a threatened and endangered plantspecies survey for the Hook Creek-Brookville project.

# City of New York Department of Parks and Recreation (DPR)/United States Tennis Center Association National Tennis Center, Incorporated (USTA)

AKRF is preparing a Draft Environmental Impact Statement (DEIS) to improve the site plan of the National Tennis Center within Flushing Meadows Corona Park in Queens. Mr. Moore conducted onsite ecological communities surveys and contributed text for the Existing Conditions and Proposed Impacts sections of the DEIS.

#### Stony Brook University/Dormitory Authority of the State of New York (DASNY)

AKRF was retained by Stony Brook University/Dormitory Authority of the State of New York (DASNY) to prepare an Environmental Assessment for a proposed dining and dormitory facility with a parking lot on the Stony Brook campus. Mr. Moore conducted onsite ecological communities surveys for the parking lot site and contributed text for the Existing Conditions and Proposed Impacts sections of the EA.

#### NYCDOT Belt Parkway Bridges Project, Brooklyn, NY

AKRF was retained to assist the New York City Department of Transportation (NYCDOT) in its proposal to rehabilitate and ensure the structural integrity of 10 bridges along the Belt Parkway in Brooklyn. Because the various locations required individual approaches and time schedules, and varied ranges of environmental impacts, the firm prepared a Generic Environmental Impact Statement (GEIS) for the overall assignment.

Since the preparation of the GEIS for the Belt Parkway Bridges Project, the firm has been retained for supplemental work during the final design phase of the project. This included NEPA and SEQRA documentation for three of the bridges — Mill Basin, Gerritsen Inlet, and Paerdegat Basin-which will be federally funded. The additional work included State Pollutant Discharge Elimination System (SPDES) permitting (U.S. Coast Guard Section 9 permits, NYSDEC tidal and freshwater permits, and USACE permits), the design of wetland mitigation areas, and the preparation of Storm Water Pollution Prevention Plans (SWPPP). Supporting analyses included a contaminated materials investigation that included a detailed subsurface contaminated materials assessment, both subaqueous as well as along the upland approaches. A Section 4(f) evaluation for parklands for Gerritsen Inlet and a Section 4(f) evaluation for historic resources for Mill Basin were also prepared.

The services for the 10 bridge projects included:

- CEQR, SEQRA, and NEPA Environmental Impact Statements
- USCG, NYSDEC, and USACE Permitting
- Stormwater Permits and Design
- Contaminated Materials Investigation
- Historic Resources Investigation
- Wetlands Delineation and Mitigation Design
- Threatened and Endangered Species Surveys



#### NATURAL RESOURCES p. 5

Mr. Moore conducted onsite wetland delineations of both the Mill Basin Bridge project site and Marine Park freshwater mitigation site, and following the field work contributed to both wetland delineation reports. He also oversaw the installation of piezometers within the Marine Park freshwater mitigation site, and conducted a year-long hydrologic study to help determine the feasibility of the site for freshwater wetland creation. Mr. Moore contributed to the Categorical Exclusion documentation, Final Design Report, Joint Application for Permits for work in tidal and freshwater wetlands and the NYSDEC regulated adjacent area, USCG permit modification, and other documentation for the Mill Basin Bridge project.

#### NYCEDC/DPR Rockaway Boardwalk Reconstruction, Queens, NY

AKRF is part of a team working with NYCEDC and DPR to provide Engineering and Design Services related to the repair of damage to the Rockaway Beach boardwalk caused by Hurricane Sandy, as well as the implementation of resiliency measures. The project is being funded by a U.S. Department of Housing and Urban Development (HUD) Community Development Block Grant funds for disaster recovery (CDBG-DR), and entails the incorporation of various resiliency elements, making the boardwalk able to withstand storm and tidal forces which will impact the coastline in future years. The Project Site is approximately 4.7 Miles of shoreline in the Rockaways. In addition, the proposed project includes providing new temporary beach access across dunes being constructed by the US Army Corps of Engineers within a portion of the beach where there is no boardwalk. The design of the replacement boardwalk may incorporate a baffle-wall underneath the boardwalk that would prevent sand migration and help to protect the adjacent community.

AKRF is preparing environmental review documents consistent with NEPA, SEQRA, and CEQR. AKRF is also preparing the Joint Application for permit under the NYSDEC tidal wetlands and coastal erosion management regulations.

Mr. Moore conducted threatened and endangered plant species surveys, and vegetation and ecological community characterizations for the project site. Following the field work he contributed to the environmental review documents and Joint Application for permit under the NYSDEC tidal wetlands and coastal erosion management regulations.

#### NYCDEP Van Cortlandt Park Bluebelt, Bronx, NY

AKRF has been retained to prepare the EAS for the Van Cortlandt Park Bluebelt Project in the Bronx, NY. The firm is responsible for the natural resources field surveys, threatened and endangered plant species surveys, coordination with the New York City Department of Parks and Recreation, and authoring the Natural Resources chapter of the EAS.

Mr. Moore conducted vegetation and ecological community characterization surveys, as well as threatened and endangered plant species surveys within the project site. Following the field work he contributed to environmental review documentation.

# New York State Office of Parks, Recreation and Historic Preservation (OPRHP) Heckscher State Park Field 7 Site Design, East Islip, NY

The OPRHP is proposing the Heckscher State Park Field 7 Site Design in East Islip, NY. The proposed project would include improvements to Heckscher State Park's Field 7 with park uses (plantings, bike paths, etc.). AKRF is focusing on natural resources issues associated with this project including the delineation of wetlands and threatened and endangered species surveys. Mr. Moore conducted onsite wetland delineations, and threatened and endangered plant species surveys for the project site. Following the field work he contributed the wetland delineation report, threatened and endangered species memoranda, and final design selection.

#### St. George Waterfront Redevelopment, Staten Island, NY



#### NATURAL RESOURCES p. 6

AKRF was retained by the New York City Economic Development Corporation (EDC) to assist in the preparation of the Final Environmental Impact Statement (FEIS) and environmental permitting for the St. George Waterfront Redevelopment project.

Mr. Moore conducted onsite ecological community surveys for the project site and contributed text for the Existing Conditions and Proposed Impacts sections of the FEIS. Mr. Moore also contributed to the Joint Application for Permits for work in tidal wetlands and the NYSDEC regulated adjacent area.

#### Department of Parks and Recreation (DPR) Forestry Technician, New York, NY

Before joining AKRF, Mr. Moore provided services for the NYDPR that included implementing management plans for project sites throughout the five boroughs of New York City, utilizing best management practices to improve and restore native plant communities and instructing volunteers as part of the Million Trees NYC program.

#### Department of Parks and Recreation (DPR) Fisheries & Marine Ecologist, New York, NY

Before joining AKRF, Mr. Moore provided services for the NYDPR that included conducting habitat monitoring, assessment, restoration within New York City parks and preparation of reports. He also coordinated the reintroduction of alewife to the Bronx River with stakeholders.





#### Environmental and Planning Consultants

440 Park Avenue South 7th Floor New York, NY 10016 tel: 212 696-0670 fax: 212 213-3191 www.akrf.com

# Memorandum

To:	Glenco Ossining, LLC
From:	Jesse Moore, Sarah Bray (AKRF)
Date:	September 17, 2015; rev 5.4.17
Re:	River Knoll – Ossining, NY – Wetland Delineation Report and Functional Assessment
cc:	Nannette Bourne, Jim Nash (AKRF)

### A. WETLAND DELINEATION (9.17.15)

#### INTRODUCTION

Glenco Ossining, LLC is evaluating the Stony Lodge Hospital property in Ossining, New York, as the future location of four (4) multi-family residential buildings (see **Figure 1**). AKRF delineated wetlands on the project site on September 14, 2015 to identify wetland areas with the potential to be regulated by the US Army Corps of Engineers (USACE) as waters of the US, and their boundaries. This memorandum outlines the details of the wetland delineation.

The wetland was reexamined in on April 21 2017 to document wetland hydrology conditions for the purpose of completing a functional assessment.

#### METHODOLOGY

Prior to the wetlands investigation, the New York State Department of Environmental Conservation (NYSDEC) and United States Fish and Wildlife Service (USFWS) National Wetlands Inventory (NWI) maps were reviewed to determine locations of state-mapped or NWI-mapped wetlands on and in the vicinity of the project site. The Natural Resources Conservation Service (NRCS) soils maps were also reviewed to determine soil types within the project site, particularly with respect to soil series identified as hydric soils. An AKRF wetland scientist conducted a wetland delineation of the project on September 14, 2015, using the United States Army Corps of Engineers (USACE) wetland delineation methodology.¹ Methodology pertaining to the three USACE wetland indicators (i.e., hydrology, soils, and hydrophytic

¹ Environmental Laboratory. 1987. "Corps of Engineers Wetlands Delineation Manual," Technical Report Y-87-1, US Army Engineer Waterways Experiment Station, Vicksburg, Miss; U.S. Army Corps of Engineers. 2011. Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Northcentral and Northeast Region (version 2.0), ed. J.S. Wakeley, R.W. Lichvar, C.V. Noble, and J.F. Berkowitz. ERDC/EL TR-12-1. Vicksburg, MS: U.S. Army Engineer Research and Development Center.

vegetation) is described below. The USACE "Wetland Determination Data Form – Northcentral and Northeast Region" (2012) was used to document the wetlands observed on the project site, and photographs were taken of observed wetland areas.

#### HYDROLOGY AND SOILS

The hydrology of the site was characterized using aerial photographs, site observations, and an auger to determine soil saturation and/or a high water table. Soils were characterized with the use of an auger and a Munsell Soil Color Chart. During the wetlands assessment, both hydrology and soils observations were made during a period of dry weather.

#### VEGETATION

The USACE Northcentral and Northeast 2014 Regional Wetland Plant List was used to determine the wetland/upland status of the plant identified on the project site. Percent cover was documented in the tree, vine, shrub, and herbaceous strata. A 30-foot (ft) radius plot was established to document percent cover of the tree and vine strata. Within this 30-ft plot, a 15-ft radius plot was established for the measurement of shrubs and saplings. For species in the herbaceous stratum, five 3.28-ft by 3.28-ft square plots were sampled within the 30-ft tree and vine plot and averaged together.

#### **EXISTING CONDITIONS**

#### MAPPING

#### National Wetlands Inventory-Mapped Wetlands

There are no NWI-mapped wetlands within the Stony Lodge Hospital property (see Figure 1).

New York State Department of Environmental Conservation-Mapped Wetlands

There are no NYSDEC-mapped freshwater wetlands within the Stony Lodge Hospital property (see Figure 2).

#### Natural Resources Conservation Service -Mapped Soils

Within the Stony Lodge Hospital property soils are mapped as "ChE – Charlton loam, 25 to 35 percent slopes," "CrC – Charlton-Chatfield complex, rolling, very rocky," "CsD – Chatfield-Charlton complex, hilly, very rocky," "HrF – Hollis-Rock outcrop complex, very steep," and "LcB – Leicester loam, 3 to 8 percent slopes, stony" by NRCS. The NRCS lists one of the series mapped for the Stony Lodge Hospital property as hydric: LcB – Leicester loam, 3 to 8 percent slopes, stony, one of the three parameters that determine whether an area falls under USACE jurisdiction as a wetland.

#### **ONSITE DELINEATION**

One wetland (A) was delineated on September 14, 2015 on the Stony Lodge Hospital property (see Figure 3).

#### Wetland A

Wetland A is a relatively small depressional freshwater wetland located along the northeastern boundary of the Stony Lodge Hospital property, at the toe of a slope. It is vegetated with a mixture of herbaceous species (see **Figure 5a**). The soils, hydrology, and hydrophytic vegetation of Wetland A were documented by sampling point "Wetland A", and are described below.

The Data Form for Wetland A depicts the dominant species associated with this sampling point. The species is sweet flag (*Acorus calamus*) (OBL) found in the herbaceous layer.

Soils of this wetland meet the criteria of "F6 Redox Dark Surface." The primary hydrology indicators are "A3 Saturation," which occurs starting at a depth of 0 inches, and "C3 Oxidized Rhizospheres on Living Roots" and the secondary hydrology indicator is "D2 Geomorphic Position," since the elevation of the wetland was in a depression compared to the surrounding area (see Data Form Wetland A).

#### Upland A

The upland area is located to the west and up-slope from Wetland A. The dominant species associated with the upland area include black locust (*Robinia pseudoacacia*) (FACU), in the tree layer, black walnut (*Juglans nigra*) (FACU) and multiflora rose (*Rosa multiflora*) (FACU) in the sapling/shrub layer, Japanese stiltgrass (*Microstegium vimineum*) (FAC) in the herb layer, and porcelainberry (*Ampelopsis brevipedunculata*) (UPL) in both the herb and woody vine layer. The vegetation, soils, and hydrology of this area do not meet the USACE criteria for a wetland. For these reasons, this area was documented as upland (see Data Form for Upland A).

The uplands throughout the rest of the Stony Lodge Hospital property would be best described according to Edinger et al. (2014) as mowed lawn² and successional southern hardwoods³ ecological communities. The mowed lawn community is dominated by Kentucky bluegrass (*Poa pratensis*), crabgrass (*Digitaria* sp), common plantain (*Plantago major*), English plantain (*Plantago lanceolata*), and red clover (*Trifolium pratense*) in the herbaceous layer. The successional southern hardwoods community is dominated by Norway maple (*Acer platanoides*), black locust, and black walnut in the tree layer; multiflora rose and black locust in the shrub layer; porcelainberry and Asiatic bittersweet (*Celastrus orbiculatus*) in the vine layer; and Japanese stiltgrass and goldenrods (*Solidago* spp) in the herbaceous layer.

#### SUMMARY

As described above, one vegetated depressional freshwater wetland (A) was identified, as per the USACE wetland delineation methodology, within the Stony Lodge Hospital property. This wetland would be expected to be under the jurisdiction of the USACE. Any disturbance to this wetland would be expected to require Section 401 and 404 permits. Wetland A would require a Jurisdictional Determination site inspection from the USACE to make the determination. AKRF will coordinate with USACE to facilitate the necessary site inspection. Once the wetland/waters boundaries are confirmed by the USACE, they are valid for a period of five (5) years. As federal wetlands only, the USACE and NYSDEC do not regulate a 100 foot adjacent area (buffer) around them.

#### **REGULATORY DISCUSSION**

#### FEDERAL WETLANDS

The onsite wetlands delineated by AKRF meet the definition of "wetlands": "those areas that are inundated or saturated by surface or ground water (hydrology) at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation (hydrophytes) typically adapted for life in saturated soil conditions (hydric soils). Wetlands generally include swamps, marshes, bogs, and similar areas." 40 CFR 232.2(r). Although the onsite wetland meets the federal definition of "wetland" (outlined in the Corps/EPA methodologies), the issue of whether the onsite wetland is subject to jurisdiction under Sections 404/401 of the Clean Water Act is a separate matter requiring review and likely onsite inspection by the Corps. It is AKRF's opinion that the onsite wetland does not have a permanent connection to other waters of the U.S., aside from the broken storm drain manhole. Regardless, the proposed site plan would not disturb the wetland or any lands within 100-feet of the wetland. Therefore, no federal jurisdictional determination site inspection is required.

² Edinger et al. (2014) define this community as "residential, recreational, or commercial land, or unpaved airport runways in which the groundcover is dominated by clipped grasses and there is less than 30 percent cover of trees. Ornamental and/or native shrubs may be present, usually with less than 50 percent cover. The groundcover is maintained by mowing and broadleaf herbicide application."

³ Edinger et al. (2014) define this community as "a hardwood or mixed forest that occurs on sites that have been cleared or otherwise disturbed."

#### TOWN OF OSSINING

The Town of Ossining regulates wetlands and a 100-foot buffer around wetlands in accordance with Ossining Town Code, Chapter 105: Freshwater Wetlands, Watercourses and Water Body Protection. Regulated activities, such as the construction of any structure, filling, and excavation activities within a wetland or a wetland buffer, or any other that may impair the natural wetland functions as described in Town Code Section 105-1C, require a permit from the Town. No jurisdictional determination has been made by the Town at this time.

#### VILLAGE OF OSSINING

The Village of Ossining has no wetland protection ordinance.

### **B. WETLAND FUNCTIONAL ASSESSMENT**

As discussed below, the onsite wetland serves primarily "modification of groundwater discharge" and "modification of water quality" wetland functions. Wetland functional categories are taken from Hollands and Magee⁴, with values rated low/medium/high based on data collected during site inspection (9.14.15 and 4.21.17) and through examination of additional resources, including existing drainage plans, topographic maps, soil maps, and historic maps/aerials of the project site.

#### HYDROLOGY

The onsite wetland is located in a topographically low area at the southwest corner of the intersection of Grandview Avenue and Narragansett Avenue. Field inspection indicates the wetland receives surface water inputs from a number of drain pipes conveying runoff from adjacent properties to the east and north and from the project site. Drain outlets discharging to the wetland are shown in Figure 7 (photos 5-8). Most notable is the 18-to-24-inch storm drain pipe running beneath the wetland that receives stormwater inputs from catch basins along Grandview Avenue and additional lands to the north. As shown in photo 8, one of the manholes for this pipe is located within the wetland itself and is in disrepair. During site inspection (4.21.17) which occurred the day following ¹/₄-inch of rain in the previous 24 hours, water was observed flowing directly into the broken concrete base of one of the manholes. During rain events, this broken pipe likely serves as a substantial source of surface water inputs to the wetland as well.

Topographic maps indicate that the wetland's drainage area is roughly 10 acres in size, most of which is offsite to the north and east. However, the current extent of development (roads/houses/sewers) surrounding the wetland has substantially modified patterns of surface drainage which may have increased/descreased the size of the wetland's contributory drainage area. Historic maps of the area (circa 1900) show a linear drainage feature running through the current wetland, draining southwards to a larger network of drainageways along Pine Avenue to the south, which eventually discharge to the Hudson River as "Sing Sing Creek" by the Ossining Railroad Station. This drainage network no longer exists. Historic farming/grading of the land and more recent fill and piping of stormwater runoff for residential development have removed all evidence of the original surface drainage features.

The wetland's landscape position in a low valley historically mapped as a surface drainageway and its persistent hydrophytic vegetation, including most importantly sweetflag (*Acorus americanus*) and tussock sedge (*Carex stricta*) both obligate wetland species, indicate that groundwater plays an important role in

⁴ "A Rapid Procedure for Assessing Wetland Functional Capacity based on Hydrogeomorphic (HGM) Classification, February 1998" (manual) by Dennis W. Magee with technical contributions from Garrett G. Hollands.

sustaining wetland hydrology. The wetland is underlain by LcB: Leicester loam soils, a "somewhat poorly drained" soil. This too indicates that this wetland is less likely to be the result of recent hydrologic inputs from the surrounding roadway network and more likely to be a long-standing wetland feature.

#### - Modification of Groundwater Discharge – medium/high

As discussed above, the wetland's landscape position, historic mapping of drainageways, and persistence of obligate wetland plant species indicates this wetland serves groundwater discharge functions. These conditions sustain wetland plants and sustain downstream surface water flows.

#### - Modification of Groundwater Recharge – low

The presence of the sewer and drain lines mapped beneath the wetland convey surface water rapidly away from this wetland. Although the wetland undoubtedly serves groundwater recharge functions at least seasonally, it is not a primary function.

#### - Storm and Floodwater Storage – low/medium

Due to its low, depressional landscape position, the onsite wetland serves some stormwater storage functions. However, site inspection indicates there is no sustained flooding (no watermarks or drift lines) and the wetland drains to the existing roadway network storm drain through a broken manhole and likely through preferential pathways (seep) along the outside of these pipes judging by its lack of ponding. Therefore, stormwater storage functions are minimized.

#### - Modification of Stream Flow – low

The wetland is small in size (1/4 acre) and has no surface outlet. Instead it discharges to the underlying storm drain, dissipates through evapotranspiration, and infiltrates to groundwater during periods of depressed groundwater elevation. As such, its ability to modify downstream flows is limited.

#### - Modification of Water Quality - medium

The onsite wetland sustains water temporarily during rain events, although this function is limited due to the wetland's small size and outflows to the broken stormdrain manhole within the wetland. Nutrient and sediment removal processes within the wetland and wetland soils add some amount of water quality improvement function beneficial to downstream surface waters.

#### - Export of Detritus – low/medium

The turnover of senesced vegetation as a source of carbon and nutrients for flora/fauna occupying downstream receiving waters is expected to be minimal. The wetland has no established outlet, only the broken storm drain manhole that effectively drains the wetland during a short period of time after rain events. Therefore export of significant amounts of detrital plant material is not occurring.

#### FLORA/FAUNA

Examination of wetland and upland plants and animals onsite has occurred on multiple occasions, including the initial wetland delineation effort (9.14.15), a fall season ecological inventory (10.17.16), and a supplemental wetland functional assessment site visit (4.21.17). As discussed in the DEIS, only one amphibian species was noted onsite, the red backed salamander (*Plethodon cinereus*) an upland species found in wooded habitat. Standing water in the wetland occurs sporadically and temporarily during and immediately following rain storms. Water depths and period of inundation in the wetland are not sufficient to provide breeding habitat for any wetland dependent amphibian species and for most aquatic invertebrate species (dragonflies, mosquitos, etc.).

The wetland's lack of trees or shrubs is due to intermittent mowing which is likely undertaken in summer during dry periods. Wetland vegetation is dominated by sweet flag (*Acorus calamus*), with lesser occurrence of sensitive fern (*Osmunda sensibilis*), tussock sedge (*Carex stricta*), and New York Aster (*Symphyotrichum novi-belgii*), and Japanese stilt grass (*Microstegium japonica*).

- Contribution of Abundance and Diversity of Wetland Vegetation - low

As discussed above, wetland vegetation is limited to a few herbaceous species which do not provide significant food, forage, denning or nesting habitat for wetland-dependent wildlife. Nor are any of the species of plants identified within the wetland uncommon or NYS-listed.

- Contribution of Abundance and Diversity of Wetland Fauna - low

As discussed above, the wetland does not retain water for sufficient periods to serve as breeding habitat for wetland-dependent amphibians or aquatic invertebrates. No amphibian egg masses or individual amphibians or other animals were identified in the wetland during the Summer 2015 and Spring 2017 site inspections.

#### IMPACT ASSESSMENT

The proposed site plan requires no disturbance to the onsite wetland or 100-foot Town-regulated wetland buffer. As such, wetland impacts are avoided. The buffer consists primarily of low-quality maintained lawn habitat with some wooded patches along the periphery of the parcel. These would be preserved. No wetland-dependent vegetation or wildlife would be adversely affected by the proposed site plan.

The wetland's principal functions are "modification of groundwater discharge" and "modification of water quality". Stormwater runoff from onsite and offsite lands contributing hydrology to the wetland will be maintained with the proposed site plan. As discussed, a majority of the wetland's hydrologic budget is supplied by offsite lands, including inputs from the broken storm drain manhole. In addition, its landscape position and persistence of obligate hydrophytic vegetation indicates that groundwater is a primary source of wetland hydrology. None of these hydrologic inputs would be modified by the proposed project. A small portion of the property (drainage area DA-2A on the SWPPP) contributes overland flow to the wetland during larger storm events. Implementation of the onsite stormwater management plan would reduce the size of this drainage area a small amount, by approximately 1.3 acres. This drainage area represents a small fraction of the wetland's overall drainage area. Therefore, the hydrologic budget and wetland hydrology will be sustained in this wetland with the propose site plan. No

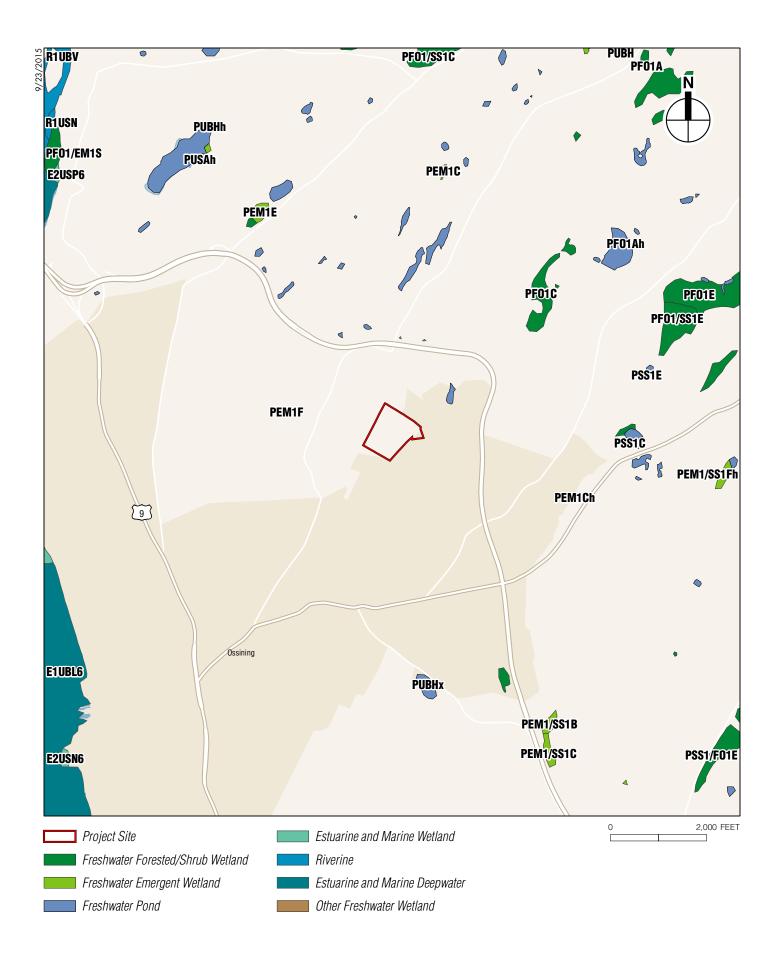
impacts to the groundwater discharge and water quality functions of the wetland will occur under the site plan proposed in the May, 2017 DEIS.

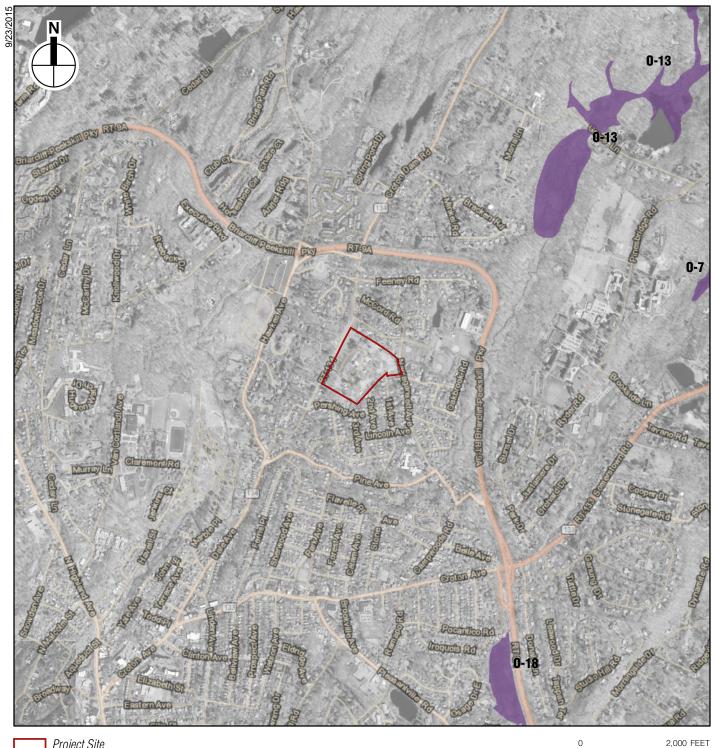
#### **Figures:**

- 1. NWI Wetlands
- 2. NYSDEC Freshwater Wetlands
- 3. Surveyed Wetlands
- 4. Photograph Key
- 5. Representative Site Photographs
- 6. Wetland Functional Assessment Photo Key
- 7. Wetland Functional Assessment Photos

#### Attachments:

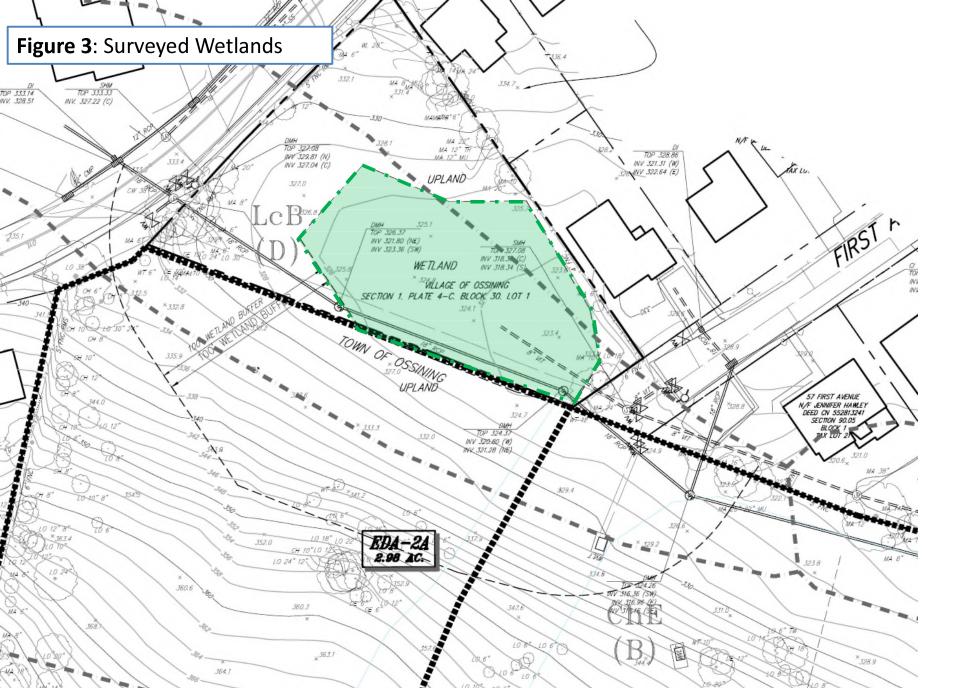
USACE Wetland Determination Data Forms







2,000 FEET







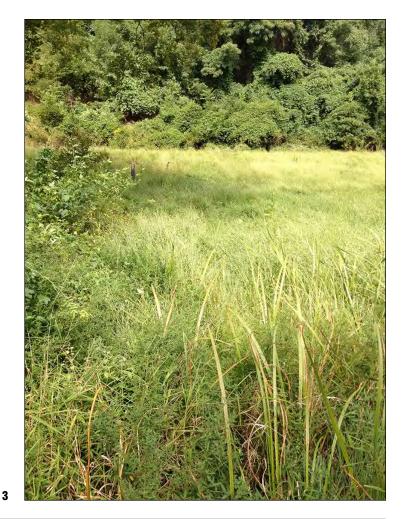
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Representative Site Photographs Figure 5a

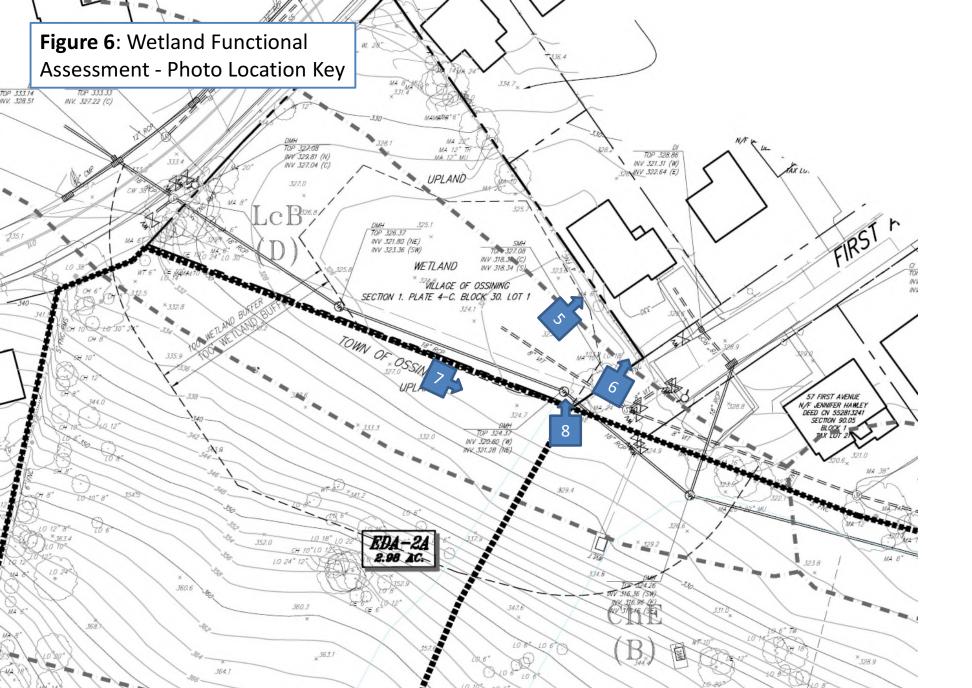




View of the southern boundary of Wetland A and the adjacent upland hillslope, facing west



View of Wetland A and the adjacent property, facing east 4







**Photo 5**: Drainage Pipe from Adjacent Property to Wetland (4.21.17)



**Photo 7**: Drainage Pipe from upslope onsite parcel to Wetland (4.21.17)



**Photo 6**: Drainage Pipes from Adjacent Property to Wetland (4.21.17)



**Photo 8**: Broken storm drain within wetland (4.21.17)

#### WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Stony Lodge Hospital		City/County: Ossir	iing/Westchester	Sampling Date: 9/14/15
Applicant/Owner: Glenco Ossining, LLC			State: NY	Sampling Point: Wetland A
Investigator(s): Jesse Moore		Section, To	wnship, Range: Ossining	
Landform (hillslope, terrace, etc.): Depression at te	be of slope Loo	cal relief (concave, conve	k, none): <u>Concave</u>	Slope (%):
Subregion (LRR or MLRA): LRR R	Lat: N 4	41.177220	Long: W 73.844945	Datum:
Soil Map Unit Name: LcB – Leicester Ioam, 3 to 8	3 percent slopes, stony		NWI classificati	on: None
Are climatic/hydrologic conditions on the site typical	for this time of year? Yes	X No	(If no, explain in Ren	narks.)
Are Vegetation <u>N</u> , Soil <u>N</u> , or Hydro	logy <u>N</u> significantly dis	sturbed?	Are "Normal Circumstance	es" present? Yes X No
Are Vegetation <u>N</u> , Soil <u>N</u> , or Hydro	logy <u>N</u> naturally probl	ematic?	(If needed, explain any an	swers in Remarks.)
SUMMARY OF FINDINGS – Attach s	ite map showing sam	pling point locatio	ns, transects, important	features, etc.
Hydrophytic Vegetation Present? Yes X	_No	Is the Sampled Area	l	
Hydric Soil Present? Yes X	_No	within a Wetland?	Yes	<u>X</u> No
Wetland Hydrology Present? Yes X	_No	If yes, optional Wetla	nd Site ID:	
HYDROLOGY				
Wetland Hydrology Indicators:				cators (minimum of two required)
Primary Indicators (minimum of one is required		(		ce Soil Cracks (B6)
Surface Water (A1) High Water Table (A2)		tained Leaves (B9) Fauna (B13)		age Patterns (B10) Trim Lines (B16)
$\overline{X}$ Saturation (A3)		posits (B15)		Season Water Table (C2)
Water Marks (B1)		n Sulfide Odor (C1)		ish Burrows (C8)
		Dhizoenhoroe on Living		ation Visible on Aerial Imagery (C9)
Sediment Deposits (B2)		Rhizospheres on Living I		
Drift Deposits (B3)	Presence	e of Reduced Iron (C4) ron Reduction in Tilled Sc	Stunt	ed or Stressed Plants (D1)
	Presence Recent li	e of Reduced Iron (C4)	ils (C6) X Geon	
Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7)	Presence Recent lu Thin Muc	e of Reduced Iron (C4) ron Reduction in Tilled Sc	ils (C6) X Geon Shall	ed or Stressed Plants (D1) norphic Position (D2) ow Aquitard (D3) topographic Relief (D4)
Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8	Presence Recent lu Thin Muc	e of Reduced Iron (C4) ron Reduction in Tilled Sc ck Surface (C7)	ils (C6) X Geon Shall	ed or Stressed Plants (D1) norphic Position (D2) ow Aquitard (D3)
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#### **VEGETATION** – Use scientific names of plants.

#### Sampling Point: Wetland A

ninant ecies?	Indicator Status	X 2 – Dominance 3 – Prevalence 4 – Morphologica	s That       1         pecies       1         That       100         st:	(B)
	FACW	Are OBL, FACW, or FAC:         Total Number of Dominant Spacross All Strata:         Percent of Dominant Species         Are OBL, FACW, or FAC:         Prevalence Index Workshee         Total % Cover of:         OBL species         FACW species         FAC species         FACU species         UPL species         Column Totals:         Prevalence Index = B/A =         Hydrophytic Vegetation Indit         X       2 – Dominance         3 – Prevalence         4 – Morphologicz	1           Decies           1           That           100           et:           X1=           X2=           X3=           X4=           X5=           (A)           icators:           for Hydrophytic Vegetation           Test is >50%           Index is #3.01	(B) (A/B)
	FACW	Across All Strata: Percent of Dominant Species Are OBL, FACW, or FAC: <b>Prevalence Index Workshee</b> Total % Cover of: OBL species FACW species FAC species UPL species Column Totals: Prevalence Index = B/A = <b>Hydrophytic Vegetation Indi</b> X 2 – Dominance 3 – Prevalence 4 – Morphologice	1           100           et:           Multiply by           x1=           x2=           x3=           x4=           x5=           (A)           icators:           for Hydrophytic Vegetation           Test is >50%           Index is #3.01	(A/B)
	FACW	Are OBL, FACW, or FAC:         Prevalence Index Workshee         Total % Cover of:         OBL species         FACW species         FAC species         FAC species         Column Totals:         Prevalence Index = B/A =         Hydrophytic Vegetation Indit         X       2 – Dominance         3 – Prevalence         4 – Morphologice	Multiply by x1= x2= x2= x3= x4= (A) iicators: for Hydrophytic Vegetatio Test is >50% Index is #3.01	(B)
	FACW	Total % Cover of:         OBL species         FACW species         FAC species         FACU species         UPL species         Column Totals:         Prevalence Index = B/A =         Hydrophytic Vegetation Indit         X       2 – Dominance         3 – Prevalence         4 – Morphologica	Multiply by           x1=           x2=           x3=           x4=           (A)           icators:           for Hydrophytic Vegetation           Test is >50%           Index is #3.01	(B)
	FACW	OBL species         FACW species         FAC species         FACU species         UPL species         Column Totals:         Prevalence Index = B/A =         Hydrophytic Vegetation Indit         1 - Rapid Test f         X       2 - Dominance         3 - Prevalence         4 - Morphologica	x1= x2= x3= x4= x5= (A) icators: for Hydrophytic Vegetation Test is >50% Index is #3.01	(B)
	FACW	FACW species FAC species FACU species UPL species Column Totals: Prevalence Index = B/A = Hydrophytic Vegetation Indi <u>X</u> 2 – Dominance <u>3</u> – Prevalence 4 – Morphologice	x2= x3= x5= (A) iicators: for Hydrophytic Vegetation Test is >50% Index is #3.01	(B)
	FACW	FAC species FACU species UPL species Column Totals: Prevalence Index = $B/A =$ Hydrophytic Vegetation Indi 1 - Rapid Test f X 2 - Dominance 3 - Prevalence 4 - Morphologice	X3= X5= (A) icators: for Hydrophytic Vegetation Test is >50% Index is #3.01	(B)
tal Cover	FACW	FACU species UPL species Column Totals: Prevalence Index = B/A = Hydrophytic Vegetation Indi 1 – Rapid Test f X 2 – Dominance 3 – Prevalence 4 – Morphologica	(A)	(B)
tal Cover	FACW	UPL species Column Totals: Prevalence Index = B/A = Hydrophytic Vegetation Indi 1 – Rapid Test f X 2 – Dominance 3 – Prevalence 4 – Morphologica	(A)	(B)
tal Cover	FACW	Column Totals: Prevalence Index = B/A = Hydrophytic Vegetation Indi 1 – Rapid Test 1 X 2 – Dominance 3 – Prevalence 4 – Morphologica	(A) icators: for Hydrophytic Vegetation Test is >50% Index is #3.0 ¹	(B)
tal Cover	FACW	Prevalence Index = B/A = Hydrophytic Vegetation Indi 1 – Rapid Test f X 2 – Dominance 3 – Prevalence 4 – Morphologica	icators: for Hydrophytic Vegetatio Test is >50% Index is #3.01	_
tal Cover	FACW	Hydrophytic Vegetation Indi 1 – Rapid Test 1 X 2 – Dominance 3 – Prevalence 4 – Morphologica	for Hydrophytic Vegetatio Test is >50% Index is #3.0 ¹	on
tal Cover	FACW	1 – Rapid Test f X 2 – Dominance 3 – Prevalence 4 – Morphologica	for Hydrophytic Vegetatio Test is >50% Index is #3.0 ¹	on
tal Cover	FACW	X 2 – Dominance 3 – Prevalence 4 – Morphologica	Test is >50% Index is #3.0 ¹	n
	FACW	3 – Prevalence 4 – Morphologica	Index is #3.0 ¹	
	FACW	4 – Morphologica		
		4 – Morphologica data in Rema	al Adaptations ¹ (Provide sup	
	OBL		arks or on a separate sheet	porting
			•	
		Problematic H	lydrophytic Vegetation ¹ (E	Explain)
		1		
		¹ Indicators of hydric soil and v present, unless disturbed or p		e
		Definitions of Vegetation St		
		Tree – Woody plants 3 in. (7.6 breast height (DBH), regardles	6 cm) or more in diamete ess of height.	r at
			•	d creater
		than or equal to 3.28 ft (1 m )	tall.	
		Herb – All herbaceous (non-w	voody) plants, regardless	of size,
tal Cover				height
		Woody Wiles - All Woody Vill	les greater triair 5.20 it in	neight.
		Hydrophytic		
tal Cover			No	
			breast height (DBH), regardle Sapling/shrub – Woody plan than or equal to 3.28 ft (1 m ) Herb – All herbaceous (non and woody plants less than 3 Woody vines – All woody vir Hydrophytic Vergetation	image: state in the input of the input

#### SOIL

#### Sampling Point: Wetland A

file Decert	tion (Deserit - t	the deat											
Depth	otion: (Describe to t Ma	the depth trix	neede	a to accument	ne in	Redox F		absence o	Ind	icators.)			
(inches)	Color (moist)		%	Color (moist)		%	Type ¹	Loc ²		Texture		Rema	ırks
0-3	10YR 2/2	93		5YR 4/6		7	C	PL		Loam		Saturated, fibric or	
3-8	10YR 3/1	97		%YR 4/6		3	C	M		Clayey loam	1	.,	
8-18	10YR 3/1	10	)							Clayey loam			
be: C=Conc	entration, D=Depleti	on, RM=R	educed	d Matrix, MS=Ma	sked	Sand Gr	ains. ² Location:	PL=Pore Li	ning	M=Matrix			
Iria Sail Ind	liaatara								In	diantara for Br	hla	notio Uvdrio Soilo	3.
Iric Soil Ind				Dehav					IN			matic Hydric Soils	
	sol (A1)					selow Su	rface (S8) (LRF	R, MLRA				A10) (LRR K, L, ML	
	Epipedon (A2)			149B)								Redox (A16) (LRR	
	Histic (A3)						S9) ( <b>LRR R, M</b> I					Peat or Peat (S3) (I	LRR K, L, R)
	gen Sulfide (A4)						ral (F1) ( <b>LRR K</b>	, L)				e (S7) ( <b>LRR, K, L</b> )	
	ied Layers (A5)					yed Matr						elow Surface (S8) (L	
Deple	ted Below Dark Surf	ace (A11)		Deple	ted M	latrix (F3	)			Thin Da	rk Su	Irface (S9) (LRR K,	L)
Thick	Dark Surface (A12)			X Redox	Dark	k Surface	e (F6)			Iron-Mai	ngan	ese Masses (F12) (	LRR K, L, R)
Sandy	/ Mucky Mineral (S1)	)		Deple	ted D	ark Surfa	ace (F7)			Piedmor	nt Flo	odplain Soils (F19)	(MLRA 149B)
Sandy	Gleved Matrix (S4)			Redox	Dep	ressions	(F8)			Mesic S	podio	c (TA6) (MLRA 144	A, 145, 149B)
Sandy	Redox (S5)									Red Par	ent I	Material (F21)	
	ed Matrix (S6)									Very Sh	allow	Dark Surface (TF1	2)
	Surface (s7) (LRR, N	/LRA. 149	B)									n in Remarks)	,
	vdrophytic vegetation			drology must be i	orese	ent, unles	s disturbed or p	roblematic.			•	,	
d Observatio													
Type:	Saturation												
Type: Depth (in narks:								Ну	lric :	Soil Present?		Yes X	No
Depth (in								Hy	dric :	Soil Present?		Yes X	No

#### WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Applicant/Owner:       State:       NY       Sampling Point:       Upland A         Investigator(s):       Jease Moore       Section, Township, Range:       Osaining         Landform (hillslope, terrace, etc.):       Hillslope       Local relief (concave, convex, none):       solpe       Solvegion (UR or MLRA):       ERR       Lat:       N11177220       Long:       W738484945       Datum:       Solvegion (UR or MLRA):       ERR       Lat:       N11177220       Long:       W73848945       Datum:       Solvegion (UR or MLRA):       ERR       Lat:       N11177220       Long:       W73848945       Datum:       Solvegion (UR or MLRA):       ERR       Long:       W73848945       Datum:       Solvegion (UR or explain in Remarks.)         Store (Septation N	Applicant/Ourpary Clance Ossining				City/County: Ossin	ing/Westchester	S	ampling Dat	e: 9/1
Landtorm (hillslope, terrace, etc.):       Hillstope       Local relief (concave, convex, none):       slope       Slope (%):         Subregion (LRR or MLRA):       LRR R       Lat:       N 41.177220       Long:       W7 (38.44945       Datum:         Soli Map Unit Leicester loam, 3 to 8 percent slopes, story       NO       (ff no, explain in Remarks.)         Are climatichydrologic conditions on the site typical for this time of year?       Yes       No       (ff no, explain in Remarks.)         Are Vegetation       N, Soil       N, or Hydrology       N	Applicant/Owner: Glenco Ossining	LLC				State: NY	(	Sampling P	oint: Upland A
Subregion (LRR or MLRA):       LRR R       Lat:       N11.177220       Long:       W 73.844945       Datum:         Soll Map Unit Name:       LB - Leicester loam, 3 to 8 percent slopes, story       NVI classification: None       NVI classification: None         Are Unait/Nortfolgic conditions on the site typical for this time of year? Yes X       No	Investigator(s): Jesse Moore				Section, To	wnship, Range: Ossining			
Soil Map Unit Name:       L6B - Leicester loam, 3 to 8 percent slopes, stony       NWI classification: None         Are climatic/hydrologic conditions on the site typical for this time of year? Yes X       No	Landform (hillslope, terrace, etc.): H	lillslope		Local	relief (concave, convex	, none): slope			Slope (%):
Are climatic/hydrologic conditions on the site typical for this time of year? Yes X       No       (If no, explain in Remarks.)         Are vegetation N       Soil N       or Hydrology N       naturally problematic?       Are "Normal Circumstances" present? Yes X       No         SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.       Hydrophytic Vegetation Present?       Yes       No       X         Hydrophytic Vegetation Present?       Yes       No       X       Is the Sampled Area within a Wetland?       Yes       No       X         Wetland Hydrology Present?       Yes       No       X       If yes, optional Wetland Site ID:       No       X         Primary Indicators:       Finany Indicators:       Secondary Indicators (minimum of two required)       Surface Soil Gracks (B6)         Surface Water (1)       Water-Stained Leaves (B9)       Darlace Soil Gracks (B6)       Darlace Soil Gracks (B6)         High Water Table (A2)       Aquatic Fauna (B13)       Mooss Tim Lines (B10)       Darlace Soil Gracks (B6)         Sufface Klash       Hydrogen Sufface Odor (C1)       Crafylish Burrows (C2)       Saturation (A3)       Genorphic Position (C4)         Sufface Klash       Hydrogen Sufface Odor (C1)       Crafylish Burrows (C8)       Saturation (X3)       Genorphic Positin (D2)         Saturation (A3)	Subregion (LRR or MLRA): LRR R			Lat: N 41.1	77220	Long: W 73.84	4945		Datum:
Are Vegetation       N       , Soil       N       , or Hydrology       N       asturally problematic?       Are "Normal Circumstances" present? Yes       No         Are Vegetation       N       , Soil       N       , or Hydrology       N       naturally problematic?       (If needed, explain any answers in Remarks.)         SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.       Hydrohydrogy       No       X         Hydro hydrology Present?       Yes       No       X       It is the Sampled Area within a Wetland?       Yes       No       X         Wetland Hydrology Present?       Yes       No       X       If yes, optional Wetland Site ID:       No       X         Primary Indicators (minimum of one is required; check all that apply)       Surface Soil Cracks (B6)       Drainage Patterns (B10)         Mitare Water (A1)       Water Table (A2)       Aquatic Fauna (B13)       Mos Trim Lines (B16)       Durisage Patterns (B10)         Surface Water (A1)       Hydrogen Surface (C1)       Aquatic Fauna (B13)       Mos Trim Lines (B16)       Durisage Patterns (B10)         Surface Water (A1)       Hydrogen Surface C1)       Oraidage Patterns (C2)       Cra/sin Burrows (C8)       Saturation (K3)         Surface Mater (A1)       Hydrogen Surface C1)       Presence of Reduced Iron (C4)	Soil Map Unit Name: LcB – Leices	ter loam, 3 to 8 p	ercent slope	s, stony		NWI clas	ssification:	None	
Are Vegetation       N       , Soil       N       , or Hydrology       N       naturally problematic?       (If needed, explain any answers in Remarks.)         SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.         Hydrophytic Vegetation Present?       Yes       No       Is the Sampled Area         Within a Wetland?       Yes       No       X         Wetland Hydrology Present?       Yes       No       X         Remarks: (Explain alternative procedures here or in a separate report.)       Surface Soil Cracks (B6)       Surface Soil Cracks (B6)         Primary Indicators (minimum of one is required; check all that apply)       Surface Soil Cracks (B6)       Drainage Patterns (B10)         High Water Table (A2)       Aquatic Fauna (B13)       Moss Trim Lines (B16)       Dry-Season Water Table (C2)         Surface Water (A1)       Hydroges Suffice Odor (C1)       Craylish Burrows (C8)       Surface Cases (B6)       Drainage Patterns (B10)         Surface Water (A1)       Hydrogen Suffice Odor (C1)       Craylish Burrows (C8)       Sufface C1)       Craylish Burrows (C8)         Sutrace Water Mats (B1)       Hydrogen Suffice Odor (C1)       Craylish Burrows (C8)       Sufface Plants (D1)       Sufface Mater Mater Suffice (D2)       Sufface R1         Madu Mat or Crust (B4)       Recent fron Reduction in Ti	Are climatic/hydrologic conditions on	the site typical for	this time of	year? Yes X	No	(If no, explain	in Remark	s.)	
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.         Hydrophytic Vegetation Present?       Yes       No       X       Is the Sampled Area within a Wetland?       Yes       No       X         Hydro Soil Present?       Yes       No       X       If yes, optional Wetland Site ID:       No       X         Remarks: (Explain alternative procedures here or in a separate report.)       If yes, optional Wetland Site ID:       No       X       X         Wetland Hydrology Indicators:       Secondary Indicators (minimum of two required)       Surface Soil Cracks (B6)       Drainage Patterns (B10)         Might Vater Table (A2)       Aquatic Fauna (B13)       Drainage Patterns (B10)       Drainage Patterns (B10)         Surface Water (A1)       Water-Stained Leaves (B9)       Drainage Patterns (B10)       Drays Startans (B16)         Saturation (A3)       Marl Deposits (B15)       Dry-Season Water Table (C2)       Carylin Burrows (C8)         Seciment Deposits (B2)       Oxidized Rhizospheres on Living Roots (C3)       Saturation Visible on Aerial Imagery (C9)       Saturation Visible on Aerial Imagery (C9)         Dift Deposits (B3)       Presence or Reduced in ni Tilled Solis (C6)       Geeomorphic Position (D2)       Saturation Visible on Aerial Imagery (C9)       Saturation Visible on Aerial Imagery (C9)       Shallow Aquitard (D3)       Microtopograp	Are Vegetation N , Soil N	, or Hydrolog	gy N	significantly distur	bed?	Are "Normal Circum	nstances" p	resent? Yes	X No
Hydrophytic Vegetation Present?       Yes       No       X         Hydric Soil Present?       Yes       No       X         Wetland Hydrology Present?       Yes       No       X         If yes, optional Wetland?       Yes       No       X         Remarks: (Explain alternative procedures here or in a separate report.)       If yes, optional Wetland Site ID:       Yes       No       X         HYDROLOGY       Wetland Hydrology Indicators:       Secondary Indicators (minimum of two required)       Surface Soil Cracks (B6)         Primary Indicators (minimum of one is required; check all that apply)       Surface Water (A1)       Water-Stained Leaves (B9)       Surface Soil Cracks (B6)         Saturation (A3)       Mart Deposits (B13)       Drainage Patterns (B10)       Moss Trim Lines (B16)         Saturation (A3)       Mart Deposits (B15)       Dry Season Water Table (C2)       Crayfish Burrows (C8)         Sediment Deposits (B2)       Oxidized Rhizospheres on Living Roots (C3)       Saturation Visible on Aerial Imagery (C9)       Stunted or Stressed Plants (D1)         Alga Mat or Crust (B4)       Recent Iron Reduction in Titled Soils (C6)       Genomphic Positin (D2)       Shalow Aquitard (D3)         In Deposits (B5)       Thin Muck Surface (C7)       Shalow Aquitard (D3)       Microtopographic Relief (D4)       Shalow Aquitard (D3) <td< td=""><td>Are Vegetation N , Soil N</td><td>, or Hydrolog</td><td>ay N</td><td>naturally problema</td><td>atic?</td><td>(If needed, explain</td><td>any answe</td><td>rs in Remark</td><td>s.)</td></td<>	Are Vegetation N , Soil N	, or Hydrolog	ay N	naturally problema	atic?	(If needed, explain	any answe	rs in Remark	s.)
Hydrophytic Vegetation Present?       Yes       No       X         Hydric Soil Present?       Yes       No       X         Wetland Hydrology Present?       Yes       No       X         If yes, optional Wetland?       Yes       No       X         Remarks: (Explain alternative procedures here or in a separate report.)       If yes, optional Wetland Site ID:       Yes       No       X         HYDROLOGY       Wetland Hydrology Indicators:       Secondary Indicators (minimum of two required)       Surface Soil Cracks (B6)         Primary Indicators (minimum of one is required; check all that apply)       Surface Water (A1)       Water-Stained Leaves (B9)       Surface Soil Cracks (B6)         Saturation (A3)       Mart Deposits (B13)       Drainage Patterns (B10)       Moss Trim Lines (B16)         Saturation (A3)       Mart Deposits (B15)       Dry Season Water Table (C2)       Crayfish Burrows (C8)         Sediment Deposits (B2)       Oxidized Rhizospheres on Living Roots (C3)       Saturation Visible on Aerial Imagery (C9)       Stunted or Stressed Plants (D1)         Alga Mat or Crust (B4)       Recent Iron Reduction in Titled Soils (C6)       Genomphic Positin (D2)       Shalow Aquitard (D3)         In Deposits (B5)       Thin Muck Surface (C7)       Shalow Aquitard (D3)       Microtopographic Relief (D4)       Shalow Aquitard (D3) <td< td=""><td>SUMMARY OF FINDINGS</td><td>- Attach site</td><td>e map sho</td><td>owing sampli</td><td>ng point locatio</td><td>s. transects. impo</td><td>ortant fea</td><td>atures. et</td><td>с.</td></td<>	SUMMARY OF FINDINGS	- Attach site	e map sho	owing sampli	ng point locatio	s. transects. impo	ortant fea	atures. et	с.
Hydric Soil Present?       Yes       No       X       within a Wetland?       Yes       No       X         Wetland Hydrology Present?       Yes       No       X       If yes, optional Wetland Site ID:       No       X         Remarks: (Explain alternative procedures here or in a separate report.)       If yes, optional Wetland Site ID:       No       X         HYDROLOGY				gp	• •				•
Wetland Hydrology Present?       Yes       No       X       If yes, optional Wetland Site ID:         Remarks: (Explain alternative procedures here or in a separate report.)       Remarks: (Explain alternative procedures here or in a separate report.)         HYDROLOGY       Secondary Indicators:       Secondary Indicators (minimum of two required)         Primary Indicators (minimum of one is required; check all that apply)       Surface Soil Cracks (B6)       Drainage Patterns (B10)         High Water Table (A2)       Aquatic Fauna (B13)       Moss Trim Lines (B16)       Dry Season Water Table (C2)         Surface Water (A1)       Hydrogen Sulfide Odor (C1)       Oxidized Rhizospheres on Living Roots (C3)       Saturation (A3)         Sediment Deposits (B2)       Oxidized Rhizospheres on Living Roots (C3)       Saturation Visible on Aerial Imagery (C9)         Stundator Visible on Aerial Imagery (B7)       Other (Explain in Remarks)       Geomorphic Position (D2)       Shallow Aquitar (D3)         Inon Deposits (B5)       Thin Muck Surface (C7)       Shallow Aquitar (D3)       Microtoporpaphic Relief (D4)         Sparsely Vegetated Concave Surface (B8)       Other (Explain in Remarks)       FAC-Neutral Test (D5)       FAC-Neutral Test (D5)	Hvdric Soil Present?	Yes	lo X				Yes	No	х
Remarks: (Explain alternative procedures here or in a separate report.)         HYDROLOGY         Wetland Hydrology Indicators:         Primary Indicators (minimum of one is required; check all that apply)       Secondary Indicators (minimum of two required)         Surface Water (A1)       Water-Stained Leaves (B9)       Drainage Patterns (B10)         High Water Table (A2)       Aquatic Fauna (B13)       Moss Trim Lines (B16)         Water Marks (B1)       Hydrogen Sulfide Odor (C1)       Crayfish Burrows (C8)         Sediment Deposits (B2)       Oxidized Rhizospheres on Living Roots (C3)       Saturation (A3)         Mart Deposits (B3)       Presence of Reduced Iron (C4)       Sturtation Sulface Vlater (C1)       Sturdator Sulface Orage Patterns (D1)         Algal Mat or Crust (B4)       Recent Iron Reduction in Tilled Soils (C6)       Seconorphic Position (D2)       Inin Muck Sufface (C7)         Iron Deposits (B5)       Thin Muck Sufface (C7)       Shallow Aquitard (D3)       Mart Table (D4)         Sparsely Vegetated Concave Surface (B8)       Other (Explain in Remarks)       FAC-Neutral Test (D5)         Field Observations:       No       Depth (inches):       Depth (inches):         Water Table Present?       Yes       No       Depth (inches):       Each	•				If ves, optional Wetlar	nd Site ID:			
HYDROLOGY         Wetland Hydrology Indicators:         Primary Indicators (minimum of one is required; check all that apply)       Surface Soil Cracks (B6)         Surface Water (A1)       Aquatic Fauna (B13)         Hydrology Indicators (minimum of one is required; check all that apply)       Surface Soil Cracks (B6)         Surface Water (A1)       Aquatic Fauna (B13)         Hydrogen Sulfide Odor (C1)       Drainage Patterns (B10)         Saturation (A3)       Marl Deposits (B15)         Water Marks (B1)       Hydrogen Sulfide Odor (C1)         Sediment Deposits (B2)       Oxidized Rhizospheres on Living Roots (C3)         Drift Deposits (B3)       Presence of Reduced Iron (C4)         Agal Mat or Crust (B4)       Recent Iron Reduction in Tilled Soils (C6)         Inundation Visible on Aerial Imagery (B7)       Other (Explain in Remarks)         Surface Water Present?       Yes         Surface Water Present?       Yes         No       Depth (inches):         Water Table Present?       Yes         No       Depth (inches):	, .,			ort)	,				
Wetland Hydrology Indicators:       Secondary Indicators (minimum of two required)         Primary Indicators (minimum of one is required; check all that apply)       Surface Water (A1)       Mater Stained Leaves (B9)       Drainage Patterns (B10)         High Water Table (A2)       Aquatic Fauna (B13)       Moss Trim Lines (B16)       Moss Trim Lines (B16)       Drainage Patterns (B10)         Water Marks (B1)       Hydrogen Sulfide Odor (C1)       Moss Trim Lines (B16)       Dry Season Water Table (C2)         Sediment Deposits (B2)       Oxidized Rhizospheres on Living Roots (C3)       Saturation Visible on Aerial Imagery (C9)         Infit Deposits (B3)       Presence of Reduced Iron (C4)       Stunted or Stressed Plants (D1)         Algal Mat or Crust (B4)       Recent Iron Reduction in Tilled Soils (C6)       Geomorphic Position (D2)         Inundation Visible on Aerial Imagery (B7)       Other (Explain in Remarks)       Microtopographic Relief (D4)         Sparsely Vegetated Concave Surface (B8)       Field Observations:       FaC-Neutral Test (D5)         Field Observations:       No       Depth (inches):       Depth (inches):         Water Table Present?       Yes       No       Depth (inches):       Depth (inches):									
Wetland Hydrology Indicators:       Secondary Indicators (minimum of two required)         Primary Indicators (minimum of one is required; check all that apply)       Surface Water (A1)       More that apply)	HYDROLOGY								
Surface Water (A1)       Water-Stained Leaves (B9)       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 (C1)       Crayfish Burrows (C8)         Sediment Deposits (B2)       Oxidized Rhizospheres on Living Roots (C3)       Saturation Visible on Aerial Imagery (C9)         Drift Deposits (B3)       Presence of Reduced Iron (C4)       Stunted or Stressed Plants (D1)         Algal Mat or Crust (B4)       Recent Iron Reduction in Tilled Soils (C6)       Geomorphic Position (D2)         Inon Deposits (B5)       Thin Muck Surface (C7)       Shallow Aquitard (D3)         Sparsely Vegetated Concave Surface (B8)       Other (Explain in Remarks)       Microtopographic Relief (D4)         Field Observations:       Surface Water Present?       Yes       No         Surface Water Table Present?       Yes       No       Depth (inches):						Seconda	ary Indicato	rs (minimum	of two required)
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 (C1)       Crayfish Burrows (C8)         Sediment Deposits (B2)       Oxidized Rhizospheres on Living Roots (C3)       Saturation Visible on Aerial Imagery (C9)         Drift Deposits (B3)       Presence of Reduced Iron (C4)       Stunted or Stressed Plants (D1)         Algal Mat or Crust (B4)       Recent Iron Reduction in Tilled Soils (C6)       Geomorphic Position (D2)         Inon Deposits (B5)       Thin Muck Surface (C7)       Shallow Aquitard (D3)         Sparsely Vegetated Concave Surface (B8)       Other (Explain in Remarks)       Microtopographic Relief (D4)         Field Observations:       Surface Water Present?       Yes       No         Water Table Present?       Yes       No       Depth (inches):         Water Table Present?       Yes       No       Depth (inches):         Water Table Present?       Yes       No       Depth (inches):	Primary Indicators (minimum of	one is required; cl	heck all that	apply)			Surface S	Soil Cracks (E	36)
Saturation (A3)       Marl Deposits (B15)       Dry-Season Water Table (C2)         Water Marks (B1)       Hydrogen Sulfide Odor (C1)       Crayfish Burrows (C8)         Sediment Deposits (B2)       Oxidized Rhizospheres on Living Roots (C3)       Saturation Visible on Aerial Imagery (C9)         Drift Deposits (B3)       Presence of Reduced Iron (C4)       Stunted or Stressed Plants (D1)         Algal Mat or Crust (B4)       Recent Iron Reduction in Tilled Soils (C6)       Geomorphic Position (D2)         Inundation Visible on Aerial Imagery (B7)       Other (Explain in Remarks)       Microtopographic Relief (D4)         Sparsely Vegetated Concave Surface (B8)       Thin Muck Surface (C7)       Shallow Aquitard (D3)         Field Observations:       Surface Water Present?       Yes       No         Depth (inches):       Depth (inches):       Depth (inches):         Water Table Present?       Yes       No       Depth (inches):									
Water Marks (B1)       Hydrogen Sulfide Odor (C1)       Crayfish Burrows (C8)         Sediment Deposits (B2)       Oxidized Rhizospheres on Living Roots (C3)       Saturation Visible on Aerial Imagery (C9)         Drift Deposits (B3)       Presence of Reduced Iron (C4)       Stunted or Stressed Plants (D1)         Algal Mat or Crust (B4)       Recent Iron Reduction in Tilled Soils (C6)       Geomorphic Position (D2)         Iron Deposits (B5)       Thin Muck Surface (C7)       Shallow Aquitard (D3)         Microtopographic Relief (D4)       Other (Explain in Remarks)       FAC-Neutral Test (D5)         Field Observations:       No       Depth (inches):       Depth (inches):         Water Table Present?       Yes       No       Depth (inches):       Depth (inches):							_		,
Sediment Deposits (B2)       Oxidized Rhizospheres on Living Roots (C3)       Saturation Visible on Aerial Imagery (C9)         Drift Deposits (B3)       Presence of Reduced Iron (C4)       Stunted or Stressed Plants (D1)         Algal Mat or Crust (B4)       Recent Iron Reduction in Tilled Soils (C6)       Geomorphic Position (D2)         Iron Deposits (B5)       Thin Muck Surface (C7)       Shallow Aquitard (D3)         Inundation Visible on Aerial Imagery (B7)       Other (Explain in Remarks)       Microtopographic Relief (D4)         Sparsely Vegetated Concave Surface (B8)       Pepth (inches):       Field Observations:         Surface Water Present?       Yes       No       Depth (inches):         Water Table Present?       Yes       No       Depth (inches):							_ /		( )
Drift Deposits (B3)       Presence of Reduced Iron (C4)       Stunted or Stressed Plants (D1)         Algal Mat or Crust (B4)       Recent Iron Reduction in Tilled Soils (C6)       Geomorphic Position (D2)         Iron Deposits (B5)       Thin Muck Surface (C7)       Shallow Aquitard (D3)         Inundation Visible on Aerial Imagery (B7)       Other (Explain in Remarks)       Microtopographic Relief (D4)         Sparsely Vegetated Concave Surface (B8)       Depth (inches):       Field Observations:         Surface Water Present?       Yes       No       Depth (inches):         Water Table Present?       Yes       No       Depth (inches):					· · /	Roots (C3)			
Iron Deposits (B5)       Thin Muck Surface (C7)       Shallow Aquitard (D3)         Inundation Visible on Aerial Imagery (B7)       Other (Explain in Remarks)       Microtopographic Relief (D4)         Sparsely Vegetated Concave Surface (B8)       Depth (inches):       FAC-Neutral Test (D5)         Field Observations:       Surface Water Present?       Yes       No         Water Table Present?       Yes       No       Depth (inches):	Sediment Deposits (B2)						_		
Inundation Visible on Aerial Imagery (B7)       Other (Explain in Remarks)       Microtopographic Relief (D4)         Sparsely Vegetated Concave Surface (B8)       FAC-Neutral Test (D5)         Field Observations:       Surface Water Present?       Yes         Surface Water Present?       Yes       Depth (inches):         Water Table Present?       Yes       No         Depth (inches):       Depth (inches):				Presence of	Reduced Iron (C4)		Stunted o	n Sliesseu r	
	Drift Deposits (B3)					ls (C6)	_		· · ·
Field Observations:	Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5)			Recent Iron Thin Muck S	Reduction in Tilled So Surface (C7)	ls (C6)	Geomorp Shallow A	hic Position Aquitard (D3)	(D2)
Surface Water Present?         Yes         No         Depth (inches):           Water Table Present?         Yes         Depth (inches):	Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aeria			Recent Iron Thin Muck S	Reduction in Tilled So Surface (C7)	Is (C6)	Geomorp Shallow A Microtopo	hic Position Aquitard (D3) ographic Reli	(D2) ef (D4)
Water Table Present? Yes No Depth (inches):	Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aeria			Recent Iron Thin Muck S	Reduction in Tilled So Surface (C7)	ls (C6)	Geomorp Shallow A Microtopo	hic Position Aquitard (D3) ographic Reli	(D2) ef (D4)
	Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aeria Sparsely Vegetated Conca	ve Surface (B8)		Recent Iron Thin Muck S Other (Expla	Reduction in Tilled So Surface (C7)	ls (C6)	Geomorp Shallow A Microtopo	hic Position Aquitard (D3) ographic Reli	(D2) ef (D4)
	Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aeria Sparsely Vegetated Conca Field Observations: Surface Water Present?	ve Surface (B8)		Recent Iron Thin Muck S Other (Expla Depth (inches):	Reduction in Tilled So Surface (C7)	ls (C6)	Geomorp Shallow A Microtopo	hic Position Aquitard (D3) ographic Reli	(D2) ef (D4)
	Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aeria Sparsely Vegetated Conca Field Observations: Surface Water Present?	ve Surface (B8) fes	No	Recent Iron Thin Muck S Other (Expla Depth (inches): Depth (inches):	Reduction in Tilled So Surface (C7)		Geomorp Shallow A Microtopo FAC-Neu	hic Position Aquitard (D3) ographic Reli tral Test (D5	(D2) ef (D4) )
	Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aeria Sparsely Vegetated Conca Field Observations: Surface Water Present?	ve Surface (B8)	No No	Recent Iron Thin Muck S Other (Expla Depth (inches): Depth (inches): Depth (inches):	Reduction in Tilled So Surface (C7) ain in Remarks)		Geomorp Shallow A Microtopo FAC-Neu	hic Position Aquitard (D3) ographic Reli tral Test (D5	(D2) ef (D4) )
	Drift Deposits (B3)     Algal Mat or Crust (B4)     Iron Deposits (B5)     Inundation Visible on Aeria     Sparsely Vegetated Conca Field Observations: Surface Water Present? Water Table Present? Saturation Present? Describe Recorded Data (stream gau	ve Surface (B8)	No No	Recent Iron Thin Muck S Other (Expla Depth (inches): Depth (inches): Depth (inches):	Reduction in Tilled So Surface (C7) ain in Remarks)		Geomorp Shallow A Microtopo FAC-Neu	hic Position Aquitard (D3) ographic Reli tral Test (D5	(D2) ef (D4) )
Remarks:	Drift Deposits (B3)     Algal Mat or Crust (B4)     Iron Deposits (B5)     Inundation Visible on Aeria     Sparsely Vegetated Conca Field Observations: Surface Water Present? Water Table Present? Saturation Present? Describe Recorded Data (stream gau	ve Surface (B8)	No No	Recent Iron Thin Muck S Other (Expla Depth (inches): Depth (inches): Depth (inches):	Reduction in Tilled So Surface (C7) ain in Remarks)		Geomorp Shallow A Microtopo FAC-Neu	hic Position Aquitard (D3) ographic Reli tral Test (D5	(D2) ef (D4) )
Remarks:	Drift Deposits (B3)     Algal Mat or Crust (B4)     Iron Deposits (B5)     Inundation Visible on Aeria     Sparsely Vegetated Conca Field Observations: Surface Water Present? Water Table Present? Saturation Present? Describe Recorded Data (stream gau	ve Surface (B8)	No No	Recent Iron Thin Muck S Other (Expla Depth (inches): Depth (inches): Depth (inches):	Reduction in Tilled So Surface (C7) ain in Remarks)		Geomorp Shallow A Microtopo FAC-Neu	hic Position Aquitard (D3) ographic Reli tral Test (D5	(D2) ef (D4) )
Remarks:	Drift Deposits (B3)     Algal Mat or Crust (B4)     Iron Deposits (B5)     Inundation Visible on Aeria     Sparsely Vegetated Conca Field Observations: Surface Water Present? Water Table Present? Saturation Present? Describe Recorded Data (stream gau	ve Surface (B8)	No No	Recent Iron Thin Muck S Other (Expla Depth (inches): Depth (inches): Depth (inches):	Reduction in Tilled So Surface (C7) ain in Remarks)		Geomorp Shallow A Microtopo FAC-Neu	hic Position Aquitard (D3) ographic Reli tral Test (D5	(D2) ef (D4) )
Remarks:	Drift Deposits (B3)     Algal Mat or Crust (B4)     Iron Deposits (B5)     Inundation Visible on Aeria     Sparsely Vegetated Conca Field Observations: Surface Water Present? Water Table Present? Saturation Present? Describe Recorded Data (stream gau	ve Surface (B8)	No No	Recent Iron Thin Muck S Other (Expla Depth (inches): Depth (inches): Depth (inches):	Reduction in Tilled So Surface (C7) ain in Remarks)		Geomorp Shallow A Microtopo FAC-Neu	hic Position Aquitard (D3) ographic Reli tral Test (D5	(D2) ef (D4) )
Remarks:	Drift Deposits (B3)     Algal Mat or Crust (B4)     Iron Deposits (B5)     Inundation Visible on Aeria     Sparsely Vegetated Conca Field Observations: Surface Water Present? Water Table Present? Saturation Present? Describe Recorded Data (stream gau	ve Surface (B8)	No No	Recent Iron Thin Muck S Other (Expla Depth (inches): Depth (inches): Depth (inches):	Reduction in Tilled So Surface (C7) ain in Remarks)		Geomorp Shallow A Microtopo FAC-Neu	hic Position Aquitard (D3) ographic Reli tral Test (D5	(D2) ef (D4) )
Remarks:	Drift Deposits (B3)     Algal Mat or Crust (B4)     Iron Deposits (B5)     Inundation Visible on Aeria     Sparsely Vegetated Conca Field Observations: Surface Water Present? Water Table Present? Saturation Present? Describe Recorded Data (stream gau	ve Surface (B8)	No No	Recent Iron Thin Muck S Other (Expla Depth (inches): Depth (inches): Depth (inches):	Reduction in Tilled So Surface (C7) ain in Remarks)		Geomorp Shallow A Microtopo FAC-Neu	hic Position Aquitard (D3) ographic Reli tral Test (D5	(D2) ef (D4) )
Remarks:	Drift Deposits (B3)     Algal Mat or Crust (B4)     Iron Deposits (B5)     Inundation Visible on Aeria     Sparsely Vegetated Conca Field Observations: Surface Water Present? Water Table Present? Saturation Present? Describe Recorded Data (stream gau	ve Surface (B8)	No No	Recent Iron Thin Muck S Other (Expla Depth (inches): Depth (inches): Depth (inches):	Reduction in Tilled So Surface (C7) ain in Remarks)		Geomorp Shallow A Microtopo FAC-Neu	hic Position Aquitard (D3) ographic Reli tral Test (D5	(D2) ef (D4) )
Remarks:	Drift Deposits (B3)     Algal Mat or Crust (B4)     Iron Deposits (B5)     Inundation Visible on Aeria     Sparsely Vegetated Conca Field Observations: Surface Water Present? Water Table Present? Saturation Present? Describe Recorded Data (stream gau	ve Surface (B8)	No No	Recent Iron Thin Muck S Other (Expla Depth (inches): Depth (inches): Depth (inches):	Reduction in Tilled So Surface (C7) ain in Remarks)		Geomorp Shallow A Microtopo FAC-Neu	hic Position Aquitard (D3) ographic Reli tral Test (D5	(D2) ef (D4) )
Remarks:	Drift Deposits (B3)     Algal Mat or Crust (B4)     Iron Deposits (B5)     Inundation Visible on Aeria     Sparsely Vegetated Conca Field Observations: Surface Water Present? Water Table Present? Saturation Present? Describe Recorded Data (stream gau	ve Surface (B8)	No No	Recent Iron Thin Muck S Other (Expla Depth (inches): Depth (inches): Depth (inches):	Reduction in Tilled So Surface (C7) ain in Remarks)		Geomorp Shallow A Microtopo FAC-Neu	hic Position Aquitard (D3) ographic Reli tral Test (D5	(D2) ef (D4) )
Remarks:	Drift Deposits (B3)     Algal Mat or Crust (B4)     Iron Deposits (B5)     Inundation Visible on Aeria     Sparsely Vegetated Conca Field Observations: Surface Water Present? Water Table Present? Saturation Present? Describe Recorded Data (stream gau	ve Surface (B8)	No No	Recent Iron Thin Muck S Other (Expla Depth (inches): Depth (inches): Depth (inches):	Reduction in Tilled So Surface (C7) ain in Remarks)		Geomorp Shallow A Microtopo FAC-Neu	hic Position Aquitard (D3) ographic Reli tral Test (D5	(D2) ef (D4) )
Remarks:	Drift Deposits (B3)     Algal Mat or Crust (B4)     Iron Deposits (B5)     Inundation Visible on Aeria     Sparsely Vegetated Conca Field Observations: Surface Water Present? Water Table Present? Saturation Present? Describe Recorded Data (stream gau	ve Surface (B8)	No No	Recent Iron Thin Muck S Other (Expla Depth (inches): Depth (inches): Depth (inches):	Reduction in Tilled So Surface (C7) ain in Remarks)		Geomorp Shallow A Microtopo FAC-Neu	hic Position Aquitard (D3) ographic Reli tral Test (D5	(D2) ef (D4) )
Remarks:	Drift Deposits (B3)     Algal Mat or Crust (B4)     Iron Deposits (B5)     Inundation Visible on Aeria     Sparsely Vegetated Conca Field Observations: Surface Water Present? Water Table Present? Saturation Present? Describe Recorded Data (stream gau	ve Surface (B8)	No No	Recent Iron Thin Muck S Other (Expla Depth (inches): Depth (inches): Depth (inches):	Reduction in Tilled So Surface (C7) ain in Remarks)		Geomorp Shallow A Microtopo FAC-Neu	hic Position Aquitard (D3) ographic Reli tral Test (D5	(D2) ef (D4) )
Remarks:	Drift Deposits (B3)     Algal Mat or Crust (B4)     Iron Deposits (B5)     Inundation Visible on Aeria     Sparsely Vegetated Conca Field Observations: Surface Water Present? Water Table Present? Saturation Present? Describe Recorded Data (stream gau	ve Surface (B8)	No No	Recent Iron Thin Muck S Other (Expla Depth (inches): Depth (inches): Depth (inches):	Reduction in Tilled So Surface (C7) ain in Remarks)		Geomorp Shallow A Microtopo FAC-Neu	hic Position Aquitard (D3) ographic Reli tral Test (D5	(D2) ef (D4) )
Remarks:	Drift Deposits (B3)     Algal Mat or Crust (B4)     Iron Deposits (B5)     Inundation Visible on Aeria     Sparsely Vegetated Conca Field Observations: Surface Water Present? Water Table Present? Saturation Present? Describe Recorded Data (stream gau	ve Surface (B8)	No No	Recent Iron Thin Muck S Other (Expla Depth (inches): Depth (inches): Depth (inches):	Reduction in Tilled So Surface (C7) ain in Remarks)		Geomorp Shallow A Microtopo FAC-Neu	hic Position Aquitard (D3) ographic Reli tral Test (D5	(D2) ef (D4) )

#### **VEGETATION –** Use scientific names of plants.

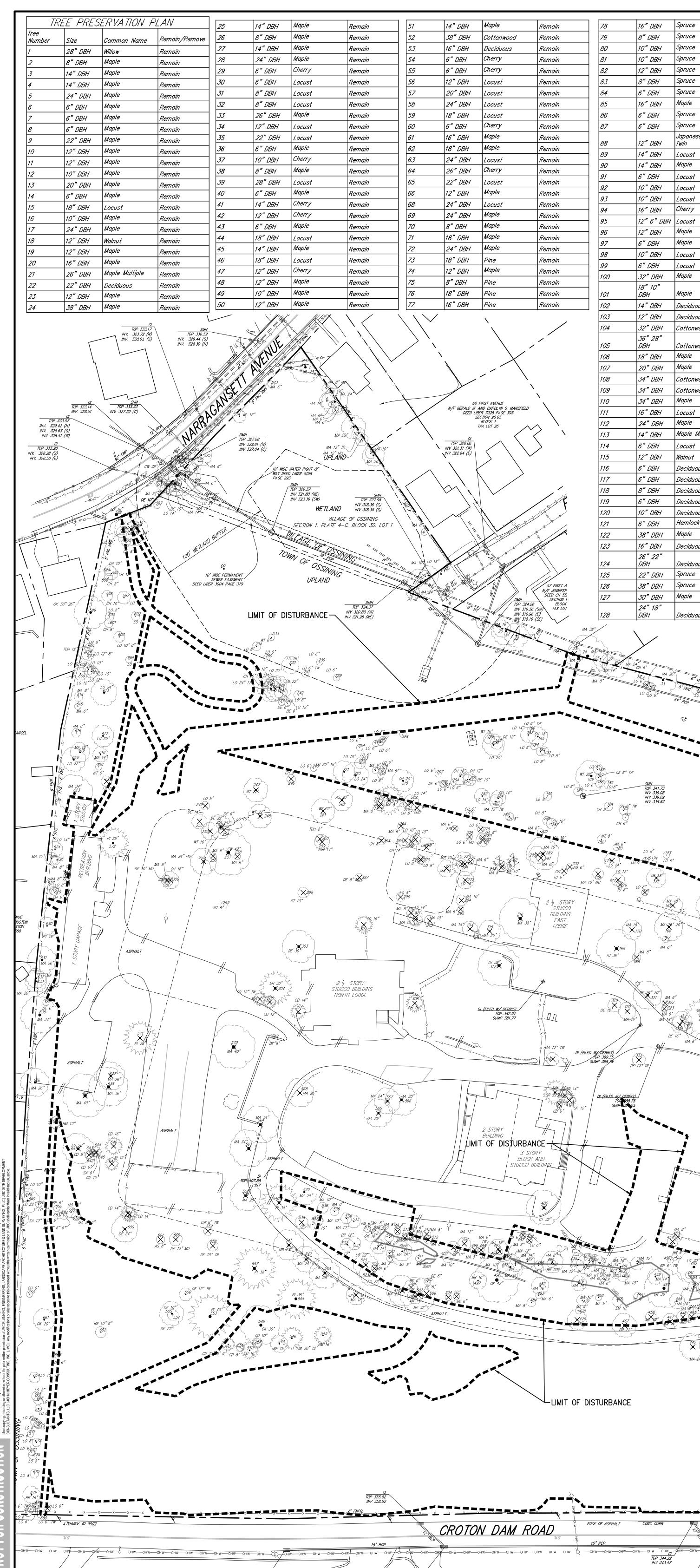
#### Sampling Point: Upland A

	Absolute	Dominant	Indicator	Dominance Test worksheet:		
Tree Stratum (Plot size: <u>30' radius</u> )	% Cover	Species?	Status			
1. <u>Robinia pseudoacacia</u>	8	<u>Y</u>	FACU	Number of Dominant Species That		
2				Are OBL, FACW, or FAC:	1 (A	A)
				Total Number of Dominant Species		
4				Across All Strata:	6(E	B)
5				Percent of Dominant Species That		
6				Are OBL, FACW, or FAC:	<u>    16.67    (</u>	A/B)
7				Prevalence Index Worksheet:		
	8	=Total Cover		Total % Cover of:	Multiply by	
Sapling/Shrub Stratum (Plot size: 15' radius )				OBL species	x1=	
Juglans nigra	15	Y	FACU	FACW species	x2=	
2. Rosa multiflora		Y	FACU	FAC species	x3=	
Morus alba		N	FACU	FACU species	x4=	
4.				UPL species	x5=	
5.				Column Totals: (A)		B)
				Prevalence Index = B/A =		,
6 7.				Hydrophytic Vegetation Indicator	¢'	
/	26	=Total Cover				
Herb Stratum (Plot Size: 3.28' x 3.28' )	26			1 – Rapid Test for Hy 2 – Dominance Test i		
	00	V	540			
1. <u>Microstegium vimineum</u>		Y	FAC	3 – Prevalence Index		
2. <u>Ampelopsis brevipedunculata</u>	40	<u>Y</u>	UPL	4 – Morphological Adap data in Remarks or	otations ¹ (Provide supportin on a separate sheet)	g
3. <u>Symphyotrichum dumosum</u>	4	N	FAC		, ,	
4				Problematic Hydrop	hytic Vegetation ¹ (Explai	in)
5						
6				¹ Indicators of hydric soil and wetlan present, unless disturbed or probler	d hydrology must be	
7				present, unless disturbed of probler	nauc.	
8				Definitions of Vegetation Strata:		
9				Tree – Woody plants 3 in. (7.6 cm)	or more in diameter at	
10				breast height (DBH), regardless of h	•	
11				Sapling/shrub – Woody plants less than or equal to 3.28 ft (1 m ) tall.	than 3 in. DBH and cre	ater
12.				Herb – All herbaceous (non-woody)	plants, regardless of size	ze,
·	134	=Total Cover		and woody plants less than 3.28 ft t	all.	
Woody Vine Stratum (Plot size: 30' radius )	104			Woody vines – All woody vines gre	ater than 3.28 ft in heigh	ht.
1. Ampelopsis brevipedunculata	40	<u>Y</u>	UPL			
2						
3						
4				Hydrophytic Vegetation		
	40	=Total Cover		Present? Yes N	o X	
Remarks: (Include photo numbers here or on a separate shee	t.)					
	,					

#### SOIL

#### Sampling Point: Upland A

DIL											Sampling	Pol	it. Opiand A	
ofile Description	on: (Describe to th		led t	o document t	he ir			m the a	absence of	ind	icators.)			
Depth	Matri		_				eatures	1						
(inches)	Color (moist)	%		Color (moist)		%	Ту	′pe¹	Loc ²		Texture		Ren	narks
0-16	10YR 4/3	100									Loam			
16-18	10YR 4/3	70									Loam			
	10YR 7/6	30												
		<u> </u>												
			L				. 2.			ļ				
pe: C=Concent	tration, D=Depletior	n, RM=Reduc	ed IV	latrix, MS=Mas	sked	Sand Gr	ains. Loc	ation: F	L=Pore Li	ning.	M=Matrix			
duia Cail India										1	diantara far Dra	hlan	atia Uvdria Cail	la ³ .
dric Soil Indica				Dehave	lue l		face (CO			In			natic Hydric Soil	
Histosol				Polyva 149B)	liue	Selow Su	nace (So		R, MLRA				10) (LRR K, L, N	
	pipedon (A2)			,				-					Redox (A16) (LR	
Black Hi									RA 149B)				Peat or Peat (S3)	
	en Sulfide (A4)						al (F1) (L	.RR K, I	L)				(S7) (LRR, K, L)	
	d Layers (A5)	(				yed Matr	. ,						ow Surface (S8)	
	d Below Dark Surfac	ce (A11)				latrix (F3							face (S9) (LRR I	
	ark Surface (A12)					k Surface	. ,						ese Masses (F12	
	lucky Mineral (S1)					ark Surfa								9) ( <b>MLRA 149B</b> )
	Gleyed Matrix (S4)			Redox	Dep	ressions	(F8)						(TA6) (MLRA 14	44A, 145, 149B)
	Redox (S5)												laterial (F21)	
	l Matrix (S6)												Dark Surface (Th	F12)
	rface (s7) (LRR, ML										Other (e	xplaiı	n in Remarks)	
	rophytic vegetation a	and wetland h	iydro	logy must be p	orese	ent, unles	s disturbe	ed or pro	oblematic.					
d Observations	s.													
Туре:														
									Нус	dric :	Soil Present?		Yes	No X
Type: Depth (inch									Нус	dric :	Soil Present?		Yes	No X
Type: Depth (inch									Нус	dric :	Soil Present?		Yes	No X
Type: Depth (inch									Нус	dric :	Soil Present?		Yes	No X
Type: Depth (inch									Нус	dric :	Soil Present?		Yes	No X
Type: Depth (inch									Нус	dric :	Soil Present?		Yes	No X
Type: Depth (inch									Нус	dric :	Soil Present?		Yes	No X
Type: Depth (inch									Нус	dric :	Soil Present?		Yes	No X
Type: Depth (inch									Нус	dric :	Soil Present?		Yes	No X
Type: Depth (inch				<u> </u>					Нус	iric :	Soil Present?		Yes	No X
Type: Depth (inch									Нус	dric :	Soil Present?		Yes	No X
Type: Depth (inch									Нус	dric :	Soil Present?		Yes	No X
Type: Depth (inch									Нус	dric :	Soil Present?		Yes	No X
Type: Depth (inch									Нус	dric :	Soil Present?		Yes	No X
Type: Depth (inch									Нус	dric :	Soil Present?		Yes	No X
Type: Depth (inch									Нус	dric :	Soil Present?		Yes	No X
Type: Depth (inch									Нус	dric :	Soil Present?		Yes	No X
Type: Depth (inch									Нус	dric :	Soil Present?		Yes	No X
Type: Depth (inch									Нус	dric :	Soil Present?		Yes	No X
Type: Depth (inch									Нус	dric :	Soil Present?		Yes	No X
Type: Depth (inch									Нус	dric :	Soil Present?		Yes	No X
Type: Depth (inch									Hyd	dric :	Soil Present?		Yes	No X
Type: Depth (inch									Нус	dric :	Soil Present?		Yes	No X
Type: Depth (inch									Нус	dric :	Soil Present?		Yes	No X
Type: Depth (inch									Нус	dric :	Soil Present?		Yes	No X
Type: Depth (inch									Нус	dric :	Soil Present?		Yes	No X
Type: Depth (inch									Hyd	dric :	Soil Present?		Yes	No X
Type: Depth (inch									Нус	dric :	Soil Present?		Yes	No X
Type: Depth (inch									Нус	dric :	Soil Present?		Yes	No X
Type: Depth (inch									Нус	dric :	Soil Present?		Yes	No X
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MA 120" 22" MU	5' The 12 23	4 MATA 25 27 28 26 MATA	A 24" A 24" CH 6" MA 26 LO 6" 33 33	6" VIT TO #2" 14	WV 311.57 (S; WOT W S	182 183	6" DBH 8" DBH	Cherry Cherry Twin	Remain Remain	238 239 240 241 242	22" D 18" D 22" D 12" D 8" D5
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		123 124 125	16" DBH 26" 22" DBH 22" DBH	Deciduous Deciduous Spruce Spruce	Remain Remain Remain	173 174 175 176 177	6 DBH 8" DBH 6" DBH 6" DBH 12" DBH	Locust Locust Locust Tulip Locust	Remain Remain Remain Remove Remain	230 231 232 233	6" DB 6" DB 16" DL 6" DB
		118 119 120 121 122	8" DBH 6" DBH 10" DBH 6" DBH 38" DBH	Deciduous Deciduous Deciduous Hemlock Multiple Maple	Remain Remain Remain Remain Remain	169 170 171 172 173	36" DBH 18" DBH 6" DBH 18" DBH 6" DBH	Tulip Maple Locust Deciduous	Remove         Remove         Remove         Remove         Remove         Remove         Remove	225 226 227 228 228 229	6" DB 6" DB 6" DB 6" DB 6" DB
		114 115 116 117	6" DBH 12" DBH 6" DBH 6" DBH	Locust Walnut Deciduous Deciduous	Remain Remain Remain Remain	166 167 168	26" 20" DBH 6" DBH 8" DBH	Maple Maple Maple	Remove Remain Remove	221 222 223 224 225	DBH 10" DL 6" DB 6" DB
T AVENUE CAROLYN S. MANSFIELD 1028 PAGE 395 N 90.05 K 1 LOT 26	, , ,	110 111 112 113	34" DBH 16" DBH 24" DBH 14" DBH	Maple Locust Maple Maple Multiple	Remain Remain Remain Remain	- 161 - 162 - 163 - 164 - 165	18" DBH 26" DBH 6" DBH 24" DBH 18" DBH	Spruce Spruce Birch Cherry Maple	Remove Remove Remove Remove Remove	218 219 220	6" DB 6" DB 24" D 20" 1
	Ň	106 106 107 108 109	18" DBH 20" DBH 34" DBH 34" DBH	Maple Maple Cottonwood Cottonwood	Remain Remain Remain Remain	- 157 - 158 - 159 - 160	8" DBH 28" DBH 24" DBH 24" DBH	Cedar Twin Spruce Spruce Spruce	Remove Remove Remove Remove	213 214 215 216 217	26" D 8" DB 20" D 6" DB 6" DB
		102 103 104 105	14" DBH 12" DBH 32" DBH 36" 28" DBH	Deciduous Deciduous Cottonwood Cottonwood	Remain Remain Remain Remain	153 154 155 156	12" DBH 8" DBH 8" DBH 12" DBH	Cedar Cedar Cedar Cedar Cedar	Remove Remove Remove Remove	210 211 212	8" DB 8" DB 8" DB
laple line line line	Remain Remain Remain Remain	99 - 100 - 101 - 100	6" DBH 32" DBH 18" 10" DBH	Locust Maple Maple	Remove Remove Remove	150 151 152	46" DBH 10" DBH 6" DBH	Oak Cedar Cedar	Remove Remove Remove	206 207 208 209	6" DB 6" DB 10" DL 14" DL
laple Pine	Remain Remain Remain Remain	96 97 98	12" DBH 6" DBH 10" DBH	Maple Maple Locust	Remove Remove Remove	146 147 148 149	12"DBH 18" DBH 30" DBH 32" DBH	Locust Cedar Spruce Spruce	Remain Remove Remove Remove	202 203 204 205	10" DL 16" DL 6" DB 6" DB
	Remain Remain Remain Remain	- 92 - 93 - 94 - 95	10" DBH 10" DBH 16" DBH 12" 6" DBH	Locust Locust Cherry Locust	Remove Remove Remove Remove	143 144 145	8" DBH 6" DBH 16" DBH 24" 22"	Locust Locust Deciduous	Remain Remain Remain	198 200 201	10" DL 12" DL 20" D 12" DL
laple ocust laple laple laple	Remain Remain Remain	- 88 - 89 - 90 - 91	12" DBH 14" DBH 14" DBH 6" DBH	Twin Locust Maple Locust	Remain Remain Remove Remove	139 140 141 142	6" DBH 8" DBH 6" DBH 8" DBH	Maple Deciduous Locust Deciduous	Remain Remain Remain Remain		18" DL 6" DB 14" DL
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ocust Therry Taple Maple Ocust Therry Ocust Maple Maple Maple	Remain Remain	82 83 84 85	12" DBH 8" DBH 6" DBH	Spruce Spruce Spruce Maple	Remain Remain Remain	- 133 - 134 - 135	32" 30" DBH 6" DBH 6" DBH	Maple Walnut Cedar Multiple	Remain Remain Remain	188 	8" DB 28" D 8" DB
Therry Taple Taple Ocust Therry Ocust Taple Ocust Taple Taple	Remain	81	8" DBH 10" DBH 10" DBH	Spruce Spruce Spruce	Remain Remain Remain	130 131 132	6" DBH 8" DBH 8" DBH	Deciduous Deciduous Birch Multiple	Remain Remain Remain	185 186 187	8" DB 6" DB 6" DB

TOP 344.22 INV 343.47

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Locust	Remain
Locust	Remain
Deciduous Twin	Remain
Locust	Remain
Walnut	Remain
Locust	Remain
Deciduous	Remain
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Cherry	Remain
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Locust Locust Locust Locust Locust Locust Locust Locust Locust Locust Locust Walnut Locust Ucust Locust	RemainRemainRemainRemainRemainRemainRemainRemainRemainRemainRemainRemainRemainRemainRemainRemainRemainRemainRemainRemainRemainRemainRemainRemainRemainRemainRemainRemainRemain
Locust Locust Locust Locust Locust Locust Locust Locust Locust Locust Locust Walnut Locust Ucust Locust Locust	RemainRemainRemainRemainRemainRemainRemainRemainRemainRemainRemainRemainRemainRemainRemainRemainRemainRemainRemainRemainRemainRemainRemainRemainRemainRemainRemainRemainRemainRemain
Locust Locust Locust Locust Locust Locust Locust Locust Locust Locust Locust Walnut Locust Ucust Ucust Locust Locust Locust Locust	RemainRemainRemainRemainRemainRemainRemainRemainRemainRemainRemainRemainRemainRemainRemainRemainRemainRemainRemainRemainRemainRemainRemainRemainRemainRemainRemainRemainRemainRemain
Locust Locust Locust Locust Locust Locust Locust Locust Locust Locust Locust Walnut Locust Locust Locust Locust Locust Locust Locust Locust	RemainRemainRemainRemainRemainRemainRemainRemainRemainRemainRemainRemainRemainRemainRemainRemainRemainRemainRemainRemainRemainRemainRemainRemainRemainRemainRemainRemainRemainRemainRemainRemainRemainRemainRemainRemain
Locust Locust Locust Locust Locust Locust Locust Locust Locust Locust Locust Walnut Locust Uocust Locust Locust Locust Locust Locust Locust Locust Locust Locust	RemainRemainRemainRemainRemainRemainRemainRemainRemainRemainRemainRemainRemainRemainRemainRemainRemainRemainRemainRemainRemainRemainRemainRemainRemainRemainRemainRemainRemainRemain
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Locust Locust Locust Locust Locust Locust Locust Locust Locust Locust Locust Walnut Locust Uocust Locust Locust Locust Locust Locust Locust Locust Locust Locust	RemainRemainRemainRemainRemainRemainRemainRemainRemainRemainRemainRemainRemainRemainRemainRemainRemainRemainRemainRemainRemainRemainRemainRemainRemainRemainRemainRemainRemainRemainRemainRemainRemainRemainRemainRemain
Locust Locust Locust Locust Locust Locust Locust Locust Locust Locust Locust Walnut Locust Locust Locust Locust Locust Locust Locust Locust Locust Locust Locust Locust Locust	RemainRemainRemainRemainRemainRemainRemainRemainRemainRemainRemainRemainRemainRemainRemainRemainRemainRemainRemainRemainRemainRemainRemainRemainRemainRemainRemainRemainRemainRemainRemainRemainRemainRemainRemainRemainRemainRemain
Locust Locust Locust Locust Locust Locust Locust Locust Locust Locust Locust Valnut Locust Locust Locust Locust Locust Locust Locust Locust Locust Locust Locust Locust Locust Locust Locust	RemainRemainRemainRemainRemainRemainRemainRemainRemainRemainRemainRemainRemainRemainRemainRemainRemainRemainRemainRemainRemainRemainRemainRemainRemainRemainRemainRemainRemainRemainRemainRemainRemainRemainRemainRemainRemainRemainRemainRemainRemainRemainRemain

PH	Locust	Remain	_ 2	96	8	" DBH
BH	Locust	Remain		97		" DBH
BH	Cherry	Remain		98		O" DBH
BH	Locust	Remain		99 99		" DBH
)BH	Locust	Remain		00		6" DBH
BH	Locust	Remain		00 101		0" DBH
)BH	Locust	Remain		07 102		?" DBH
BH	Locust	Remain		02 103		O" DBH
PH	Locust	Remain		05 104		
PH	Deciduous	Remain				0" DBH
ΡH	Deciduous	Remain		05 00		2" DBH
	+	<u>_</u>		06		2" DBH
				07		4" DBH
71 72_SMH				08		6" DBH
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_	INV 305.5± (NE) ASPHALT	72 SECTION BLOCK	٤		DE	
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245	6" DBH	Locust	Remain
245 246	8" DBH	Cherry	Remove
247	22" DBH	Walnut	Remove
248	22" DBH	Walnut	Remove
249	8" DBH	Locust	Remove
250	14" DBH	Deciduous	Remove
251	22" DBH	Deciduous	Remove
252 253	6" DBH 16" DBH	Deciduous Walnut	Remove Remove
255 254	10" DBH	Locust	Remove
255	24" DBH	Maple Multiple	Remove
256	6" DBH	Maple	Remove
257	42" DBH	Cottonwood	Remove
258	6" DBH	Maple	Remove
259	14" DBH	Tree of Heaven	Remove
260 261	8" DBH 22" DBH	Tree of Heaven Walnut	Remove Remove
262	22 DBH 20" DBH	Ash	Remove
263	8" DBH	Cherry	Remove
264	6" DBH	Maple	Remove
265	14" DBH	Cherry	Remove
266	10" DBH	Locust	Remove
267	10" DBH	Locust	Remove
268	18" DBH	Locust	Remove
269 270	8" DBH	Locust	Remove
270 271	8" DBH 16" DBH	Locust Maple	Remove Remove
272	16" DBH	Locust	Remove
273	10" DBH	Maple	Remove
274	22" DBH	Locust	Remove
275	6" DBH	Maple	Remove
276	6" DBH	Maple	Remove
277	6" DBH	Cherry	Remain
278	6" DBH	Locust Multiple	Remove
279 280	6" DBH 6" DBH	Locust Maple	Remove Remove
281	12" DBH	Locust	Remove
282	14" DBH	Locust	Remain
283	12" DBH	Maple Twin	Remain
284	14" DBH	Cherry	Remain
285	8" DBH	Cherry	Remain
286	8" DBH	Cherry	<i>Remain</i>
287 288	10" DBH 6" DBH	Cherry Maple	Remain Remain
200 289	30" DBH	Maple	Remove
290	16" DBH	Maple	Remove
291	8" DBH	Maple	Remove
292	10" DBH	Maple	Remove
293	8" DBH	Maple	Remove
294	10" DBH	Maple	Remove
295	6" DBH	Maple	Remove
296	8" DBH	Locust Deciduous Multiple	Remove
297 298	8" DBH 10" DBH	Walnut	Remove Remove
299 299	6" DBH	Walnut	Remain
300	16" DBH	Cherry	Remove
301	10" DBH	Maple	Remove
302	8" DBH	Deciduous Multiple	Remove
303	30" DBH	Deciduous	Remove
304	30" DBH	Spruce	Remove
305 306	<i>12" DBH</i>	Cedar Twin	Remove
306 307	12" DBH 14" DBH	Cedar Cedar	Remove Remove
307 308	16" DBH	Spruce	Remove
309	16" DBH	Cedar	Remove
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	EXISTING PROPERTY LINE
	ADJACENT PROPERTY LINE
F-65	EXISTING EASEMENT LINE
r-03	EXISTING WETLAND LINE AND DELINEATION
	EXISTING BUILDING OVERHANG
	EXISTING BUILDING LINE
	EXISTING PAVEMENT EDGE
	EXISTING CURB LINE
	EXISTING CONTOUR
	EXISTING INDEX CONTOUR
	EXISTING STONE WALL
	EXISTING RETAINING WALL
	EXISTING GUIDE RAIL
	EXISTING FENCE
	EXISTING TREE AND DESIGNATION
	EXISTING TREE LINE
	EXISTING DIRECTIONAL ARROWS
	EXISTING PAINT
	EXISTING STORM DRAIN LINE AND SIZE
	EXISTING SANITARY LINE AND SIZE
	EXISTING WATER LINE
	EXISTING GAS LINE
	EXISTING OVERHEAD WIRES
	EXISTING DRAIN INLET
	EXISTING MANHOLE
	EXISTING FIRE HYDRANT
	EXISTING GAS VALVE
	EXISTING WATER VALVE
	EXISTING UTILITY POLE
	EXISTING LIGHT POLE
	EXISTING SIGN

310	8" DBH	Maple	Remove
311	14" DBH	Ash	Remove
312	12" DBH	Maple	Remove
313	10" DBH	Maple	Remove
313 314 315	14" DBH 20" DBH	Maple Maple	Remove Remove Remove
316	38" DBH	Maple	Remove
317	38" DBH	Tulip	Remove
318	12" DBH	Maple Twin	Remove
319	12" DBH	Deciduous	Remove
320	16" DBH	Maple	Remove
321	26" 20"	Deciduous	
322 323	DBH 6" DBH 6" DBH	Maple Maple	Remove Remove Remove
324	18" DBH	Maple	Remove
325	16" DBH	Deciduous	Remove
326	6" DBH	Maple	Remain
327	34" DBH	Spruce	Remove
328	32" DBH	Spruce	Remove
329	22" DBH	Spruce	Remove
330	14" DBH	Spruce	Remove
331	6" DBH	Cedar	Remove
332	12" DBH	Spruce	Remove
333	12" DBH	Deciduous Triple	Remove
334	38" DBH	Cedar	Remove
335	16" DBH	Cedar	Remove
336	18" DBH	Deciduous	Remove
337	12" DBH	Cedar	Remove
338		Cedar	Remove
339	12" DBH	Cedar	Remove
340		Cedar	Remove
341	12" DBH	Cedar	Remove
342	14" DBH	Cedar Twin	Remove
343	36" DBH	Pine	Remove
344	26" DBH	Pine	Remove
345	20" DBH	Pine	Remove
346	8" DBH	Cedar	Remove
347	18" DBH	Hemlock	Remove
348	12" DBH	Cedar	Remove
349	14" DBH	Cedar	Remove
350	12" DBH	Cedar	Remove
351	14" DBH	Cedar	Remove
351	14" DBH	Cedar	Remove
352	28" DBH	Maple	Remove
353	14" 8" DBH	Deciduous	Remove
353 354 355	48" DBH 24" DBH	Locust Locust	Remain Remain
356	12" DBH	Maple	Remain
357	11" DBH	Sassafras	Remain
358	14" DBH	Sassafras	Remain
359	6" DBH	Sassafras	Remain
360	6" DBH	Sassafras	Remain
361	6" DBH	Sassafras	Remain
362	6" DBH	Sassafras	Remain
363	6" DBH	Sassafras	Remain
364	12" DBH	Sassafras	Remain
365	20" DBH	Locust	Remain
366	22" DBH	Maple	Remain
367 368	22 DBH 24" DBH 26" DBH	Locust Locust	Remain Remain
369	12" DBH	Maple	Remain
370	6" DBH	Walnut	Remain
371	24" DBH	Maple	Remain
372	22" DBH	Ash	Remain
373	6" DBH	Maple	Remain
374	20" DBH	Maple	Remain
375	20" DBH	Birch	Remain
376	26" DBH	Maple	Remain
377 378	16" DBH 10" DBH	Maple Maple Maple	Remain Remain
379 380 381	10" DBH 10" DBH 12" DBH	Maple Maple	Remain Remain Remain
382	34" DBH	Oak	Remain
383	28" DBH	Maple	Remain
384	24" DBH	Oak	Remain
385	10" DBH	Maple	Remain
386	12" DBH	Maple	Remain
387	14" DBH	Maple	Remain
388	10" DBH	Maple	Remain
389	14" DBH	Mape	Remain
390	22" DBH	Maple	Remain
391	6" DBH	Maple	Remain
392 393	28" DBH 22" DBH	Pine Oak Hickory	Remain Remain
394 395 396	10" DBH 6" DBH 10" DBH	Maple Twin Hickory	Remain Remain Remain
397	30" DBH	Hickory	Remain
398	8" DBH	Maple	Remain
399	6" DBH	Maple	Remain
400	34" DBH	Maple	Remain
401	6" DBH	Maple	Remain
402	8" DBH	Maple	Remain
403	30" DBH	Oak	Remain
404	16" DBH	Birch	Remain
405 406	6" DBH 12" DBH	Maple Birch Maple	Remain Remain
407	8" DBH	Maple	Remain
408	12" DBH	Maple	Remain
409	6" DBH	Maple	Remain
409	6" DBH	Maple	Remain
410	8" DBH	Maple	Remain
411	12" DBH	Maple	Remain
417 412 413	6" DBH 12" DBH	Maple Maple	Remain Remain Remove
414	22" DBH	Pine	Remain
415	20" DBH	Pine	Remove
416	12" DBH	Pine	Remain
417	8" DBH	Maple	Remain
418	6" DBH	Maple	Remain
419	24" DBH	Oak	Remain
420	12" DBH	Oak	Remain
421	20" DBH	Maple	Remove
422 423 424	8" DBH 16" DBH	Maple Maple Maple	Remove Remove Remain
424	12" DBH	Maple	Remain
425	10" DBH	Maple	Remain
426	48" DBH	Oak	Remain
426 427 428	48 DBH 12" DBH 14" DBH	Maple Maple	Remain Remain Remain
429	12" DBH	Maple	Remain
430	10" DBH	Maple	Remain
4 <i>3</i> 1	6" DBH	Maple	Remain
4 <i>3</i> 2	18" DBH	Maple	Remove
433	24" DBH	Pine	Remove
434	12" DBH	Maple Twin	Remove
435	18" DBH	Maple	Remain
436	6" DBH	Maple	Remain
437 438	12" DBH	Maple Maple Maple	Remain Remain
439	6" DBH	Maple	Remove
440	10" DBH	Maple	Remove
441	24" DBH	Maple	Remove
441	24" DBH	маріе	Remove
442	24" DBH	Маріе	Remove
443	6" DBH	Маріе	Remain
443 444 445	6" DBH 6" DBH	Maple Maple	Remain Remain Remove
445 446 447	12" DBH 14" DBH	Maple Maple	Remove Remove
L		-	

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EXISTING CONDITIONS DEPICTED ON THIS PLAN HAVE BEEN TAKEN FROM SURVEY PREPARED BY JMC, PLLC.

14" DBH	Maple	Remain	587	6" DBH	Walnut	Remain
12" DBH 10" DBH	Maple Maple	Remain Remain	588 589	38" DBH 6" DBH	Locust Cherry	Remain Remain
 6" DBH 30" DBH	Maple Locust	Remain Remain	590 591	30" DBH 6" DBH	Locust Cherry	Remain Remain
 8" DBH 10" DBH	Maple Locust	Remove Remove	592 593	10" DBH 8" DBH	Cherry Cherry	Remain Remain
 6" DBH 6" DBH	Birch Birch Twin	Remain Remain	594 595	10" DBH 12" DBH	Cherry Cherry	Remain Remain
36" DBH 10" DBH	Oak Maple	Remain	596 597	8" DBH 12" DBH	Cherry	Remain
14" DBH	Maple	Remove Remain	597 598	10" DBH	Locust Cherry	Remain Remain
12" DBH 18" DBH	Maple Maple	Remain Remain	599 600	30" 26" DBH 8" DBH	Oak Locust	Remain Remain
 14" DBH 10" DBH	Maple Birch	Remain Remain	601	8" DBH	Cherry	Remain
10" DBH 8" DBH	Maple Hickory	Remain Remain	602 603	8" DBH 10" 8" DBH	Locust Locust	Remain Remain
10" DBH 22" DBH	Elm Birch	Remain Remove	604 605	6" DBH 8" DBH	Locust Cherry	Remain Remain
6" DBH	Maple Maple	Remain	606 607	12" DBH 12" 8" DBH	Tree of Heaven Locust	Remain Remain
6" DBH 6" DBH	Maple	Remain Remain	608 609	10" DBH 12" DBH	Locust Locust	Remain Remain
12" DBH 8" DBH	Maple Maple	Remain Remain	610 611	10" DBH 12" DBH	Locust Locust	Remain Remain
 18" DBH 12" DBH	Maple Maple Triple	Remain Remain	612	10" DBH	Locust	Remain
12" DBH 14" DBH	Maple Maple	Remain Remain	613 614	24" DBH 8" DBH	Locust Maple	Remain Remain
10" DBH 6" DBH	Maple Maple	Remain Remain	615 616	6" DBH 8" DBH	Maple Maple	Remain Remain
18" DBH 20" DBH	Maple Birch	Remove Remain	617 618	20" DBH 14" DBH	Locust Maple	Remain Remain
8" DBH	Maple	Remain	619 620	18" DBH 22" DBH	Maple Locust	Remain Remain
16" DBH 6" DBH	Maple Maple	Remain Remain	621 622	6" DBH 10" DBH	Walnut Locust	Remain Remove
8" DBH 8" DBH	Maple Elm	Remain Remain	623	34" DBH	Maple Locust Triple	Remain
 32" DBH 6" DBH	Chestnut Cedar	Remove Remove	624 625	14" DBH 12" DBH	Maple	Remain Remain
6" DBH 14" DBH	Cedar Maple	Remain Remain	626 627	8" DBH 8" DBH	Maple Triple Maple	Remain Remain
 12" DBH	Maple	Remain	628 629	8" DBH 6" DBH	Locust Cherry	Remain Remain
24" DBH 10" DBH	Maple Maple	Remain Remain	630 631	16" DBH 26" DBH	Walnut Maple	Remain Remain
 6" DBH 6" DBH	Maple Maple	Remain Remove	632	18" DBH	Maple Maple	Remain
 18" DBH 42" DBH	Maple Oak	Remove Remain	633 634	20" DBH 6" DBH	Deciduous	Remain Remain
 16" DBH 6" DBH	Birch Maple Twin	Remain Remove	635 636	34" DBH 26" DBH	Maple Maple	Remain Remain
 8" DBH	Maple Maple	Remove	637 638	26" DBH 36" DBH	Maple Maple	Remove Remove
 12" DBH 12" DBH	Oak	Remove Remove	639 640	40" DBH 12" DBH	Maple Hemlock	Remove Remain
 10" DBH 6" DBH	Maple Beech	Remain Remove	641 642	28" DBH 8" DBH	Locust Cedar	Remove Remove
 6" DBH 6" DBH	Beech Beech	Remove Remain	643	6" DBH	Cedar	Remove
 8" DBH 32" DBH	Beech Beech	Remove Remove	644 645	10" DBH 6" DBH	Cedar Sassafras	Remove Remove
14" DBH 6" DBH	Beech Beech	Remove Remove	646 647	16" DBH 12" DBH	Cedar Pine	Remove Remove
 28" DBH 6" DBH	Maple Maple	Remove	648 649	10" DBH 22" DBH	Locust Locust	Remain Remain
8" DBH	Maple	Remain Remove	650 651	6" DBH 12" DBH	Locust Sassafras	Remain Remain
8" DBH 12" DBH	Maple Maple	Remove Remove	652 653	6" DBH 6" DBH	Birch Cherry	Remain Remain
6" DBH 6" DBH	Maple Maple	Remove Remove	654	8" 6" 6" DBH	Maple	Remain
 18" DBH 6" DBH	Maple Maple	Remain Remain	655 656	10" DBH 8" 6" DBH	Maple Maple	Remain Remain
8" DBH 6" DBH	Maple Maple	Remain Remain	657 658	14" DBH	Cedar Cedar	Remove
	Maple Maple	Remain	659	24" DBH	Deciduous	Remove Remove
22" DBH	Locust	Remove Remove	660 661	6" DBH 20" DBH	Cherry Oak	Remain Remain
18" DBH 22" DBH	Maple Locust	Remove Remove	662 663	10" 6" DBH 6" DBH	Birch Oak	Remain Remain
14" DBH 8" DBH	Maple Maple	Remain Remain	664 665	10" DBH 8" DBH	Locust Twin Locust	Remain Remain
 6" DBH 16" DBH	Maple Oak	Remain Remain	666 667	8" DBH 6" DBH	Locust Locust	Remain Remain
 6" DBH 12" DBH	Elm Birch	Remain Remain	668 669	8" DBH 6" DBH	Locust Locust	Remain Remain
 12" DBH 12" DBH	Ash Maple	Remain Remain	670	6" DBH	Locust	Remain
10" DBH	Maple	Remain	671 672	6" DBH 8" DBH	Cherry Locust	Remain Remain
 8" DBH 10" DBH	Maple Maple	Remain Remain	673 674	6" DBH 8" DBH	Locust Locust	Remain Remain
10" DBH 12" DBH	Hemlock Oak	Remain Remove	675 676	8" DBH 16" DBH	Locust Birch	Remain Remain
 24" DBH 34" DBH	Maple Pine	Remain Remove	677 678	6" DBH 6" DBH	Locust Twin Locust	Remain Remain
 28" DBH 24" DBH	Maple Maple	Remove Remove	679 680	6" DBH 6" DBH	Locust Locust Twin	Remain Remain
 28" DBH 36" DBH	Maple Pine	Remove Remain	681	6 " DBH 6" DBH 44" DBH	Locust Twin Locust Maple	Remove
 16" DBH 20" DBH	Hemlock Hemlock	Remain Remain	682 683	40" DBH	Maple	Remove Remove
16" DBH	Birch	Remain	684 685	38" DBH 8" 6" DBH	Maple Maple	Remove Remove
36" DBH 10" DBH	Oak Cedar	Remain Remain	686 687	25" DBH 6" DBH	Pine Deciduous	Remove Remove
 16" DBH 8" DBH	Cedar Cedar	Remain Remain	688 689	6" DBH 6" DBH	Maple Maple	Remain Remove
 12" 8" 6" DBH	Cedar	Remain	690 691	6" DBH 36" DBH	Walnut Maple	Remove Remain
 40" DBH 10" DBH	Pine Deciduous	Remain Remain	692	8" DBH	Birch Maple	Remain
 22" DBH 12" DBH	Deciduous Deciduous Triple	Remain Remain	693 694	6" DBH 6" DBH	Cedar	Remain Remain
 38" DBH 10" DBH	Pine Deciduous Triple	Remove Remove	695 696	8" DBH 38" DBH	Deciduous Deciduous	Remain Remove
 8" DBH 12" DBH	Dw Twin Deciduous Multiple	Remove	697 698	38" DBH 22" DBH	Deciduous Maple	Remove Remain
8" DBH	Ash	Remove	699 700	22" DBH 6" DBH	Maple Locust	Remain Remain
 28" DBH 34" DBH	Maple Maple	Remove Remove	701 702	6" DBH 6" DBH	Tulip Elm	Remain Remain
34" DBH 26" DBH	Maple Maple	Remove Remove				
 29" DBH 24" DBH	Maple Maple	Remove Remove				
 26" DBH 8" DBH	Maple Deciduous	Remove Remain				
 40" DBH 30" DBH	Maple Pine	Remove Remove				
 28" DBH	Pine	Remain				
 6" DBH 12" DBH	Maple Willow	Remain Remain				
 20" DBH 8" DBH	Maple Maple	Remain Remain				
 30" DBH 38" DBH	Locust Cottonwood	Remain Remain				
 6" DBH 6" DBH	Maple Maple	Remain Remain				
 24" DBH 14" DBH	Locust Maple	Remain Remain				
 10" DBH	Maple	Remain				
10" DBH 14" DBH	Deciduous Locust	Remain Remain				
6" DBH	Maple	Remain				

