Wetland Delineation Report

Lincoln Park Grid Support Center

State Route 32

Town of Ulster Ulster County, New York

March 25, 2019



Prepared by:

Chazen Engineering, Land Surveying & Landscape Architecture Co., D.P.C.

21 Fox Street Poughkeepsie, New York 12601 (845) 454-3980

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Chazen Engineering, Land Surveying & Landscape Architecture Co., D.P.C. (New York)
Chazen Engineering Consultants, LLC (Tennessee)

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LIMITATIONS: Only the U.S. Army Corps of Engineers and/or New York State Department of Environmental Conservation (NYSDEC) can legally make a determination of the extent of regulated aquatic resources on any property. This wetland delineation report represents the professional opinion of The Chazen Companies regarding the extent and jurisdiction of aquatic resources on the Site and is non-binding on the Corps of Engineers or NYSDEC. Opinions presented in this report also apply to Site conditions and regulations existing only at the time of Chazen's delineation and may not necessarily apply to future Site conditions and/or regulations, which may change over time. Reliance on this report without validation or approval by the Corps of Engineers and/or the NYSDEC is solely at the risk of the Client.

1. CONTEXT OF THE SITE

The Project Site is being reviewed to construct a battery array to provide capacity and ancillary services to the regional electric grid, and this is a Wetland Delineation Report in support of that project, known as the Lincoln Park Grid Support Center (LPGSC) (also "the Project."). Appendix A, Figure 1 shows the location of the Project on the Kingston east, NY USGS topographic quadrangle. The Project is located on an 10.42 acre portion of a 41.2-acre parcel identified as Tax Parcel 48.12-1-20, located in Town of Ulster, Ulster County, New York. See Appendix A, Figure 2, "Tax Orthophoto Map."

The wetland delineation was completed within a Jurisdictional Determination limit of 8.167 acres. See Appendix B, Wetland and Stream Delineation Map, and the map provided titled "Lands Now or Formerly Of Kingston Landing Development LLC, Existing Conditions."

The Jurisdictional Delineation Area is mostly occupied by upland forest and wetlands.

On December 11, 2018, Chazen environmental scientist David MacDougall delineated the boundaries of wetlands in the 8.167-acre Jurisdictional Determination Area. The flags used to mark the location of the boundaries were located and mapped by Chazen land surveyors on January 25, 2019. That map is presented in Appendix B.

2. MAPPED RESOURCES

2.1 Topography

Figure 1 is a topographic map of the section of the Town of Ulster where the Jurisdictional Determination Area is located. The site lies within an area of rolling topography. There is approximately 30 feet of relief within the Jurisdictional Determination Area. The Jurisdictional Determination Area lies within the watershed of the Hudson River.

2.2 Soils

According to the soil survey map of the USDA Natural Resources Conservation Service, there are three soil mapping unit types mapped within the Jurisdictional Determination Area. These soils are described and their approximate locations shown in Appendix C, "Soils Report."

Bath-Nassau-Rock outcrop complex, Hilly (BOD). This map unit consists of a deep, well drained Bath soil and a shallow, somewhat excessively drained Nassau soil and small areas of exposed bedrock. The soils formed in glacial till. Areas are mainly on a series of ridges that are cored by folded, shale, slate, siltstone and sandstone bedrock. These ridges are generally oriented in a northeast-southwest direction. Relief is very irregular. The Bath soil is in the convex inter-ridge areas where runoff does not accumulate, and the Nassau soil is on the ridge sideslopes and is intermingled with rock outcrops on ridgetops. Relief is irregular. Slopes are short and generally complex. They are mainly 10 to 25 percent, but range from 10 to 30 percent. Areas very in size and shape. The unit is made up of 40 percent Bath gravely silt loam, about 25 percent Nassau

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¹¹ Tornes, Lawrence A. et. al. 1979. <u>Soil Survey of Ulster County, New York</u>. United States Department of Agriculture Soil Conservation Service in cooperation with Cornell University Agricultural Experiment Station. See www.nrcs.usda.gov/Internet/FSE_MANUSCRIPTS/.../ulsterNY1979/ulster.pdf.

² The original soil data were mapped at a scale of 1:24,000, and so the soil unit boundaries shown in Appendix C, which is at a scale of 1:9,410, are not likely to be accurate.

shaly silt loam, about 15 percent Rock outcrop and about 20 percent other soils. These soils and Rock outcrop area in such an intricate pattern that they are not shown separately on the soil map. The Bath soil may have a perched water table from 2 to 4 feet below the grade from November to March, with the Nassau soil having a high-water table of greater than 6 feet. Bedrock is 40 inches below grade in the Bath soils, and 10 to 20 inches below grade in the Nassau soils. The bedrock is hard in the Bath soil and rippable in the Nassau soil. The Bath soil is a coarse-loamy mixed mesic Typic Fragiochrepts, while the Nassau soil is a loamy-skeletal, mixed, mesic Lithic Dystrochrept. This mapping unit has a 0% hydric soil rating.

- Nassau-Bath-Rock outcrop complex, very steep (NBF). This map unit consists of shallow, somewhat excessively drained Nassau soils; deep well drained Bath soils; and Rock outcrop or bedrock exposures that are intermingled mainly with the Nassau soils. These soils formed in glacial till. The Nassau soil general is on the upper one-half to two-thirds of the slope, and the Bath soil is on the lower art. Rock outcrop is on the hillsides, valleysides, and mountains. Slope ranges from 35 to 65 percent. Most areas are long and narrow in shape and are 10 to 100 acres in size. This unit is made up of about 40 percent Nassau shaly silt loam and very shaly silt loam, 25 percent Bath gravelly silt loam and gravelly loam, 20 percent Rock outcrop, and 15 percent other soils. These sols and the Rock outcrop form such an intricate pattern that they are not shown separately on the soil map. The Bath soil may have a perched water table from 2 to 4 feet below the grade from November to March, with the Nassau soil having a high-water table of greater than 6 feet. Bedrock is 40 inches below grade in the Bath soils, and 10 to 20 inches below grade in the Nassau soils. The bedrock is hard in the Bath soil and rippable in the Nassau soil. The Bath soil is a coarse-loamy mixed mesic Typic Fragiochrepts, while the Nassau soil rating.
- Volusia channery silt loam, 0 to 8 percent slopes, very stony (VSB). These deep, very stony, somewhat poorly drained soils formed in glacial till. They are on foot slopes and on undulating hilltops and plains. Slopes are concave and uniform. They range from 3 to 8 percent. Areas are long and narrow or irregular in shape and are 10 to 150 acres in size. This soil has a perched water table at a depth of 0.5 to 1.5 inches below grade from December to May. The depth to bedrock is greater than 60 inches. This soil is a fine-loamy mixed mesic Aeric Fragiaquept. This soil has a hydric soil rating of 5%.

One soil mapped in the Jurisdictional Determination Area has a hydric soil rating of greater than 0 percent. Volusia channery silt loam has a hydric soil rating of 5%. This rating indicates the percentage of the soils in a map unit that is likely to be hydric. Palms soil lie at the bottom of a steep slope off-site.

Map Unit Symbol	Map Unit Name	Hydric Soil Rating	Depth to Water Table	Natural Drainage Class
BoD	Bath-Nassau-Rock outcrop complex, Hilly	0	Bath – 2 to 4 feet Nassau - >6 feet	Well Drained Somewhat Excessively Drained
NBF	Nassau-Bath-Rock outcrop complex, very steep	0	Bath – 2 to 4 feet Nassau - >6 feet	Well Drained Somewhat Excessively Drained
VSB	Volusia channery silt loam, 0 to 8 percent slopes, very stony	5	0.5 to 1.5 feet	Somewhat Poorly Drained

Table 1: Summary of Soils Mapped within Area of Review

2.3 Wetlands and Streams

There are two NYSDEC Wetland mapped in the vicinity of the Jurisdictional Determination Area.

NYSDEC wetland, KE-3, Class 2 is located north of the Project parcel; the NYSDEC maps this as 65.3-acre wetland.

NYSDEC wetland, KE-7, Class 2 is located southeast of the Project parcel; the NYSDEC maps this as 28.9-acre wetland.

The National Wetland Inventory (NWI³) does not identify any wetlands or streams mapped within the 10.45 sub-parcel or the 8.167 acre Jurisdictional Determination Area. A stream is shown off-parcel to the east, with the NYSDEC wetland KE-3 to the north. The NWI mapping is not a regulatory map but rather a tool for identifying the location of the potential wetlands in the field. See Figure 3 "National Wetlands Inventory and NYSDEC Wetlands and Streams Map."

3. ECOLOGICAL COMMUNITIES

A list of the plant species identified during the wetland delineation work is provided in Appendix D. Following are descriptions of the plant communities found in the Jurisdictional Determination Area, as defined according to the ecological community classification system used by the New York Natural Heritage Program (Edinger et al. 2014).

- Appalachian Oak-hickory forest: The majority of this site is forested and includes rolling topography. Shallow bedrock was encountered throughout the Jurisdictional Determination Area and the trees are likely old growth with moderate size due to the root restriction. The forest on-site is dominated by mature trees including chestnut oak, red oak, white oak, shagbark hickory, sugar maple, and black cherry. A sparse herbaceous layer included wintergreen, spotted wintergreen, and Christmas fern. This community is throughout the Jurisdictional Determination Area. See Appendix D, Photo 3, 4, 7, 8, 11, 12, 15 and 16.
- Red Maple-hardwood swamp: Several of the wetland systems found on-site can be categorized as red maple hardwood swamps, including Wetland A, B, C, and D. These wetlands lie within depressions and one (Wetland C) is associated with an off-site stream. The wetlands are dominated by red maple, American hornbeam, and sensitive fern. highbush blueberry, and spicebush were the main shrubs identified in these wetlands. See Appendix D, Photos 1, 2, 5, 6, 9, and 13.
- Shrub swamp: One of the wetland systems found on-site can be categorized as a shrub swamp, Wetland E. This wetland lies within a depression. The wetland is dominated by spicebush, highbush blueberry, and sensitive fern. Highbush blueberry and spicebush were the main shrubs identified.

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³ USFWS. 2018. National Wetlands Inventory surface waters and wetlands. https://www.fws.gov/wetlands/data/Mapper.htm. Reviewed August 9, 2018.

4. WETLAND DELINEATION

The identification of wetlands and delineation of their boundaries was carried out according to the methods in the Corps of Engineers delineation manual (Environmental Laboratory, 1987) and the regional supplement to that manual (USACOE, 2011). On December 11, 2018 Chazen environmental scientist David MacDougall delineated the boundaries of wetlands in the Jurisdictional Determination Area. The flags used to mark the location of the boundaries were located and mapped by Chazen land surveyors on January 25, 2019. That map is presented in Appendix B.

Points on the wetland boundaries were marked using pieces of vinyl flagging tape tied to trees and shrubs, each of which was given an ID number consisting of a letter identifying the line plus a sequential number. During the field work, photographs of the upland and wetland boundary and other general site conditions were taken as provided in Appendix E. Data points were taken on the wetland and upland side of each boundary line, with the location specified by the wetland flag number. This data included details of vegetative strata, hydrology and soils, which is provided on the datasheets in Appendix F.

5. DESCRIPTION OF WETLANDS AND STREAMS

Following are brief description of the wetlands delineated in the Jurisdictional Determination Area. The Jurisdictional Determination Area is approximately 8.167-acres in size, with a centroid at 41°57′51.20″ and -73°58′30.59″. Table 2 lists the wetland identification, area in the Jurisdictional Determination Area, centroid coordinates (WGS84 datum), and Cowardin Class. The area of wetlands provided below are from the surveyed wetland map in Appendix B.

Wetland A is to the east of Frank Sottile Boulevard. The wetland was mostly inundated at the time of the delineation. This wetland contains open water and forested habitats.

Wetland B is to the east of Frank Sottile Boulevard. The wetland was partially inundated at the time of the delineation. This wetland contains forested habitat.

Wetland C is to the east of Frank Sottile Boulevard. The wetland was partially inundated at the time of the delineation. This wetland contains open water and forested habitats. This wetland flows into a stream channel north of the Jurisdictional Determination Area outside of the Project parcel.

Wetland D is to the east of Frank Sottile Boulevard. The wetland was partially inundated at the time of the delineation. This wetland contains forested habitat.

Wetland E is to the east of Frank Sottile Boulevard. The wetland was not inundated at the time of the delineation. This wetland contains scrub shrub habitat.

Table 2. Wetland Information

Wetland or Stream	On-site area (acres) or length	Centroid (on or adjacent to Project Site)		Cowardin Class	Stream Type
	(I.f.)	Latitude	Longitude		
Wetland A	0.37	41°57′34.78′′	-73°58′53.34″	PFO/PUB	N/A
Wetland B	0.06	41°57′34.31″	-73°58′50.48′′	PFO	N/A
Wetland C	0.24	41°57′49.10′′	-73°58′32.84″	PFO	N/A
Wetland D	0.19	41°57′51.20′′	-73°58′30.59″	PFO	N/A
Wetland E	0.04	41°57′49.88′′	-73°58′25.83″	PSS	N/A

6. JURISDICTION OVER WETLANDS ON THE PROJECT SITE

The following identifies the jurisdiction over wetlands by the federal, state and local government.

New York State Department of Environmental Conservation (NYSDEC): There are no streams mapped by the NYSDEC within the Jurisdictional Determination Area.

There are two NYSDEC mapped wetland on or in the immediate vicinity to the site, See Figure 3 in Appendix A. Both wetlands are Class 2. NYSDEC wetland KE-3 is located near the northeast corner of the property, and NYSDEC Wetland KE-7 is east of the southeast corner of the site.

Wetland C is within the 500 foot checkzone of NYSDEC Wetland KE-3. However, the NYSDEC wetland is at the toe of a steep slope off-site, whereas Wetland C on-site is at a higher elevation on the property. There is a small stream channel that flows out of Wetland C off-site and downslope to the DEC wetland. The two wetlands are separated both by several hundred feet of distance, and a steep slope, and so it is Chazen's professional opinion that the NYSDEC will not assert jurisdiction over Wetland C due to the physical separation from NYSDEC Wetland KE-3.

Wetland E appears to be within the 500-foot checkzone of NYSDEC wetland KE-7. Wetland E is a potentially non-jurisdictional federal wetland as it has no inlet or outlet and the wetland lays within a depression. NYSDEC Wetland KE-7 appears to be on the east side of an off-site stream corridor located at the bottom of a steep slope located off-site. Wetland E is separated from NYSDEC Wetland KE-7 by several hundred feet and a steep slope. It is Chazen's professional opinion that the NYSDEC will not assert jurisdiction over Wetland E due to the physical separation from NYSDEC Wetland KE-7.

A NYSDEC Section 401 Water Quality Certificate is required if applying for a Corps permit.

Corps of Engineers: Under Section 404 of the Clean Water Act, the Corps regulates any waters or wetlands with a significant nexus to traditionally navigable waters (i.e., "Waters of the United States" or WOTUS). Generally, streams that flow off a site and the wetlands adjacent to such streams are likely to have such a nexus. Under Section 404 of the Clean Water Act, the Corps regulates the discharge of

dredge or fill material into Waters and Wetlands. Nationwide permits are available for impacts less than 0.5 acre with compensatory mitigation required for impacts greater than 0.1 acre. An individual permit is required for impacts greater than 0.5 acre.

The federal definition of WOTUS, and the regulations and guidelines for determining what aquatic resources are subject to regulation under WOTUS has been in flux since 2001. The ruling in Solid Waste Authority of Northern Cook County (SWANCC) found that otherwise non-jurisdictional wetlands that were only regulated under the Migratory Bird Act did not have a significant nexus under the US Constitution's Commerce Clause for federal regulation. There have been numerous federal court cases regarding this regulation, including the US Supreme Court decision in Rapanos and Carabell, which ruled that a water of the United States needed a Significant Nexus to be regulated. Recently the WOTUS Definition was changed under a 2015 regulation that went into effect in New York Stat in August/September 2018. Attachment G provides a "2015 Clean Water Rule Cheat Sheet." Under the 2015 WOTUS definition, it is Chazen's professional opinion that the Corps will use the following thresholds:

- Waters and wetlands are **automatically regulated** under Section 404 of the Clean Water Act if they are "adjacent" or "neighboring" a tributary to a navigable water. This includes waters or wetlands identified as (a)(1) through (a)(6) on the Cheat Sheet that are:
 - A tributary (a)(5) and/or abutting or separated by a barrier from a tributary (a)(6).
 - Within 100 feet of an ordinary high water mark of a tributary (a)(6).
 - Within a 100-year floodplain and within 1,500 of the ordinary high water mark of a tributary (a)(6).
- Under (a)(8) all waters or wetlands that are more than 100 feet but less than 4,000 feet from a tributary are regulated when they are determined on a case-specific basis to have a significant nexus to a tidal or navigable water, an interstate water or the territorial sea. The significant nexus determines whether there is a more than inconsequential or insignificant physical, chemical, hydrological or biological significant nexus. This is a new regulatory process that is currently in initial stages and being developed.

Table 3 below summarizes likely jurisdiction for these wetlands. It is Chazen's professional opinion that Wetlands B and C are regulated under Section 404 of the Clean Water Act by law, and that Wetlands A, D and E requires a Corps of Engineer's significant nexus determination to be regulated under Section 404 of the Clean Water Act.

Wetland w/in 100 LIKELY REGULATORY STATUS Flow out of Watercourses in feet of a Tributary? Wetland ID wetland? wetland? (a)(8)Wetland A NO NO NO Requires significant nexus determination (a)(6). Regulated by law. Wetland B NO NO YES Wetland adjacent to Intermittent Stream (a)(6). Regulated by law. Wetland C NO YES YES Wetland adjacent to Intermittent Stream (a)(8)Wetland D NO NO NO Requires significant nexus determination (a)(8)Wetland E NO NO NO Requires significant nexus determination

Table 3: Summary of Likely Jurisdiction

7. LITERATURE CITED

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 Ecological Communities of New York State. Second Edition. A revised and expanded edition of Carol Reschke's Ecological Communities of New York State. New York Natural Heritage Program, New York State Department of Environmental Conservation, Albany, NY, 160p.
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- United States Department of Agriculture, Natural Resources Conservation Service. 2017. *Field Indicators of Hydric Soils in the United States*, Version 8.1. L.M. Vasilas, G.W. Hurt, and J.F. Berkowitz (eds.). USDA, NRCS, in cooperation with the National Technical Committee for Hydric Soils.
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APPENDIX A

Figures

Figure 1 Site Location Map

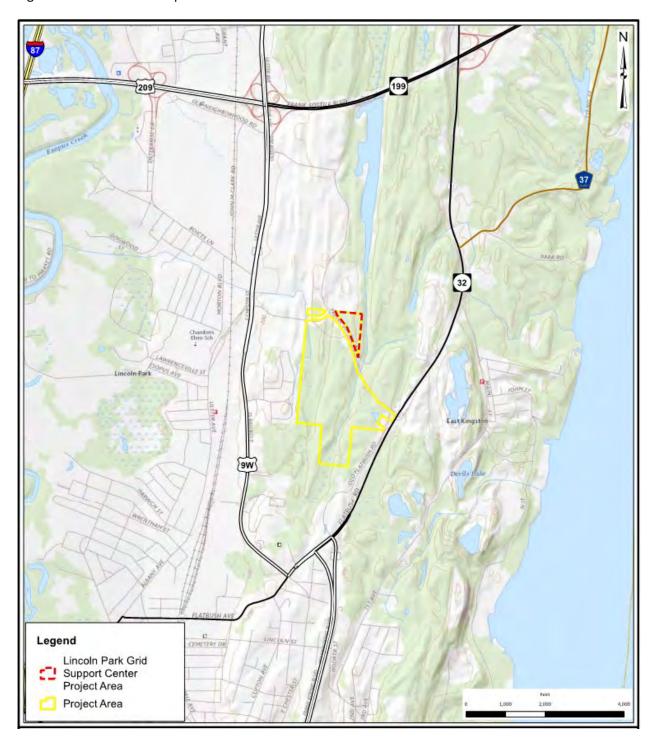


Figure 2 Orthophoto of the Project Area

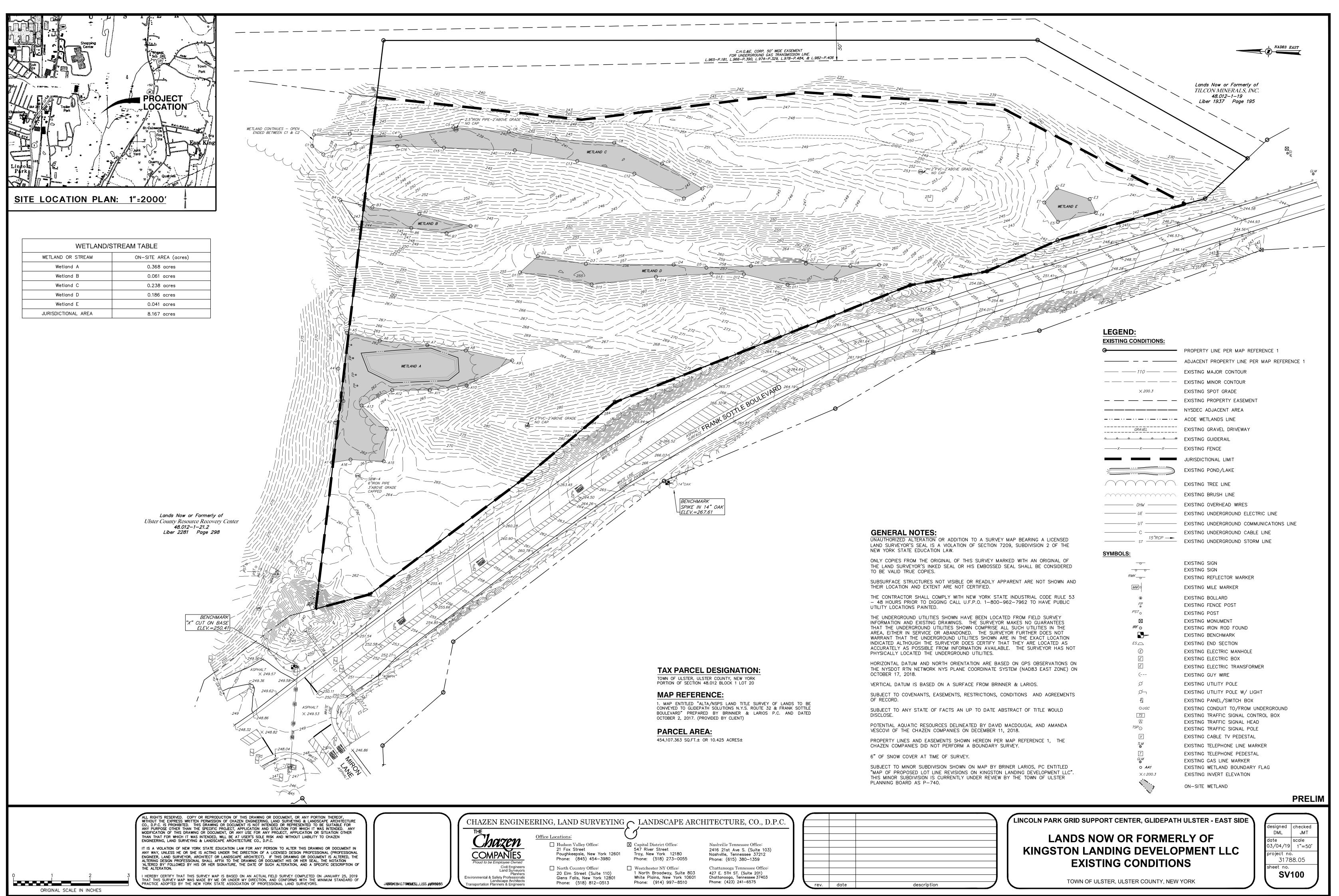


PESTE PSSNEMIE PFONG PEMB KE-7¶ PEME RELEM PROTE PEOUR PERME PFO1EMIE Legend PPONE Lincoln Park Grid Support Center Project Area Project Area NYSDEC Wetlands USFWS NWI Wetlands NYSDEC Streams Tax Parcels

Figure 3 National Wetlands Inventory and NYSDEC Wetlands and Streams Map

APPENDIX B

Wetland Delineation Map



Drawing Name: Z:\projects\31700-31799\31788.05 Glidepath Ulster East Site\SVY\dwg\05_SVY_31788-05_EXIST.dwg
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APPENDIX C

Soils Report



MAP LEGEND

Area of Interest (AOI) Transportation Area of Interest (AOI) Rails Soils Interstate Highways **Soil Rating Polygons** US Routes Hydric (100%) Major Roads Hydric (66 to 99%) Local Roads Hydric (33 to 65%) **Background** Hydric (1 to 32%) Aerial Photography Not Hydric (0%) Not rated or not available Soil Rating Lines Hydric (100%) Hydric (66 to 99%) Hydric (33 to 65%) Hydric (1 to 32%) Not Hydric (0%) Not rated or not available **Soil Rating Points** Hydric (100%) Hydric (66 to 99%) Hydric (33 to 65%) Hydric (1 to 32%) Not Hydric (0%) Not rated or not available **Water Features** Streams and Canals

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:15,800.

Warning: Soil Map may not be valid at this scale.

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

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service

Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Ulster County, New York Survey Area Data: Version 17, Sep 3, 2018

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Oct 7, 2013—Sep 3, 2017

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Hydric Rating by Map Unit

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
BOD	Bath-Nassau-Rock outcrop complex, hilly	0	4.1	38.9%
ML	Made land	5	0.0	0.1%
NBF	Nassau-Bath-Rock outcrop complex, very steep	0	3.5	32.9%
Pa	Palms muck	100	1.6	15.2%
VSB	Volusia channery silt loam, 0 to 8 percent slopes, very stony	5	1.4	12.9%
Totals for Area of Intere	st		10.5	100.0%

Description

This rating indicates the percentage of map units that meets the criteria for hydric soils. Map units are composed of one or more map unit components or soil types, each of which is rated as hydric soil or not hydric. Map units that are made up dominantly of hydric soils may have small areas of minor nonhydric components in the higher positions on the landform, and map units that are made up dominantly of nonhydric soils may have small areas of minor hydric components in the lower positions on the landform. Each map unit is rated based on its respective components and the percentage of each component within the map unit.

The thematic map is color coded based on the composition of hydric components. The five color classes are separated as 100 percent hydric components, 66 to 99 percent hydric components, 33 to 65 percent hydric components, 1 to 32 percent hydric components, and less than one percent hydric components.

In Web Soil Survey, the Summary by Map Unit table that is displayed below the map pane contains a column named 'Rating'. In this column the percentage of each map unit that is classified as hydric is displayed.

Hydric soils are defined by the National Technical Committee for Hydric Soils (NTCHS) as soils that formed under conditions of saturation, flooding, or ponding long enough during the growing season to develop anaerobic conditions in the upper part (Federal Register, 1994). Under natural conditions, these soils are either saturated or inundated long enough during the growing season to support the growth and reproduction of hydrophytic vegetation.

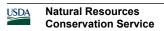
The NTCHS definition identifies general soil properties that are associated with wetness. In order to determine whether a specific soil is a hydric soil or nonhydric soil, however, more specific information, such as information about the depth and duration of the water table, is needed. Thus, criteria that identify those estimated soil properties unique to hydric soils have been established (Federal Register, 2002). These criteria are used to identify map unit components that normally are associated with wetlands. The criteria used are selected estimated soil properties that are described in "Soil Taxonomy" (Soil Survey Staff, 1999) and "Keys to Soil Taxonomy" (Soil Survey Staff, 2006) and in the "Soil Survey Manual" (Soil Survey Division Staff, 1993).

If soils are wet enough for a long enough period of time to be considered hydric, they should exhibit certain properties that can be easily observed in the field. These visible properties are indicators of hydric soils. The indicators used to make onsite determinations of hydric soils are specified in "Field Indicators of Hydric Soils in the United States" (Hurt and Vasilas, 2006).

References:

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Soil Survey Staff. 2006. Keys to soil taxonomy. 10th edition. U.S. Department of Agriculture, Natural Resources Conservation Service.

Rating Options

Aggregation Method: Percent Present

Component Percent Cutoff: None Specified

Tie-break Rule: Lower

APPENDIX D

Plant Table

 Table 1.
 Plants Identified Growing on the Project Site

Colonia None	N	Wetland
Scientific Name*	Common Name	indicator†
Trees	Christa d Marala	FACIL
Acer pensylvanicum	Striped Maple	FACU
Acer rubrum	Red Maple	FAC
Acer saccharum	Sugar Maple	FACU
Betula alleghaniensis	Yellow Birch	FAC
Betula lenta	Sweet Birch	FACU
Betula populifolia	Gray Birch	FAC
Carpinus caroliniana	American Hornbeam	FAC
Carya glabra	Pignut Hickory	FACU
Carya ovata	Shag-Bark Hickory	FACU
Fagus grandifolia	American Beech	FACU
Fraxinus pennsylvanica	Green Ash	FACW
Ostrya virginiana	Eastern Hop-Hornbeam	FACU
Pinus strobus	Eastern White Pine	FACU
Populus deltoides	Eastern Cottonwood	FAC
Populus tremuloides	Quaking Aspen	FACU
Prunus pensylvanica	Fire Cherry	FACU
Prunus serotina	Black Cherry	FACU
Quercus alba	Northern White Oak	FACU
Quercus montana	Chestnut Oak	UPL
Quercus rubra	Northern Red Oak	FACU
Quercus velutina	Black Oak	NL
Robinia pseudoacacia	Black Locust	FACU
Salix nigra	Black willow	OBL
Tsuga canadensis	Eastern Hemlock	FACU
Shrubs		
Berberis thunbergii	Japanese Barberry	FACU
Cornus amomum	Silky Dogwood	FACW
Cornus racemosa	Gray dogwood	FAC
Hamamelis virginiana	American Witch-Hazel	FACU
Ilex verticillata	Winterberry	FACW
Lindera benzoin	Northern Spicebush	FACW
Lonicera morrowii	Morrow's Honeysuckle	FACU
Prunus virginiana	Choke Cherry	FACU
Rosa multiflora	Rambler Rose	FACU
Rubus allegheniensis	Allegheny Blackberry	FACU
Spiraea alba	Meadowsweet	FACW
Vaccinium angustifolium	Lowbush Blueberry	FACU

Scientific Name*	Common Name	Wetland indicator+
Vaccinium corymbosum	Highbush Blueberry	FACW
Viburnum dentatum	Southern Arrow-Wood	FAC
Woody Vines		
Celastrus orbiculatus	Asian Bittersweet	UPL
Clematis virginiana	Devil's-Darning-Needles	FAC
Parthenocissus quinquefolia	Virginia-Creeper	FACU
Toxicodendron radicans	Eastern Poison Ivy	FAC
Vitis sp.	grape	unknown
Herbaceous Plants		
Alliaria petiolata	Garlic-Mustard	FACU
Allium schoenoprasum	Wild Chives	FACU
Anthoxanthum odoratum	Large Sweet Vernal Grass	FACU
Apocynum sp.	Dogbane	unknown
Aquilegia canadensis	Red Columbine	FACU
Aralia nudicaulis	Wild Sarsaparilla	FACU
Artemisia vulgaris	Common Wormwood	UPL
Asplenium platyneuron	Ebony Spleenwort	FACU
Asplenium rhizophyllum	walking fern	NL
Barbarea vulgaris	Garden Yellow-Rocket	FAC
Carex albursina	White Bear Sedge	NL
Carex pensylvanica	Pennsylvania sedge	NL
Carex stricta	Uptight Sedge	OBL
Centaurea stoebe	Spotted Knapweed	NL
Chimaphila maculata	Spotted-Wintergreen	NL
Chrysosplenium americanum	American Golden-Saxifrage	OBL
Danthonia spicata	Poverty Grass	NL
Daucus carota	Queen Anne's-Lace	UPL
Dendrolycopodium obscurum	Princess-Pine	FACU
Dennstaedtia punctilobula	Hay-Scented Fern	UPL
Dichanthelium clandestinum	Deer-Tongue Rosette Grass	FACW
Equisetum arvense	Field Horsetail	FAC
Eurybia divaricata	White Wood-Aster	NL
Fragaria virginiana	Virginia Strawberry	FACU
Galium mollugo	White Bedstraw	FACU
Geum canadense	White Avens	FAC
Glyceria striata	Fowl mana grass	OBL
Impatiens sp.	Touch-me-not	FACW
Lotus corniculatus	Garden Bird's-Foot-Trefoil	FACU
Lysimachia ciliata	Fringed Yellow-Loosestrife	FACW
Lythrum salicaria	Purple Loosestrife	OBL

Scientific Name*	Common Name	Wetland indicator†
Maianthemum canadense	False Lily-of-the-Valley	FACU
Micranthes virginiensis	Early Pseudosaxifrage	FACU
Microstegium vimineum	Japanese Stilt Grass	FAC
Mitchella repens	Partridge-Berry	FACU
Onoclea sensibilis	Sensitive Fern	FACW
Osmundastrum cinnamomeum	Cinnamon Fern	FACW
Parathelypteris noveboracensis	New York Fern	FAC
Pedicularis canadensis	Canadian Lousewort	FACU
Phragmites australis	Common Reed	FACW
Polypodium virginianum	Rock Polypody	NL
Polystichum acrostichoides	Christmas Fern	FACU
Potentilla canadensis	Dwarf Cinquefoil	NL
Pteridium aquilinum	Northern Bracken Fern	FACU
Pyrola americana	American Wintergreen	FAC
Ranunculus acris	Tall Buttercup	FAC
Rubus hispidus	Bristly Dewberry	FACW
Schizachyrium scoparium	Little False Bluestem	FACU
Solidago gigantea	Late Goldenrod	FACW
Solidago juncea	Early Goldenrod	NL
Solidago rugosa	Wrinkle-Leaf Goldenrod	FAC
Stachys byzantina	Lambs ear	FACU
Symplocarpus foetidus	Skunk-Cabbage	OBL
Taraxacum officinale	Common Dandelion	FACU
Thalictrum thalictroides	Rue-Anemone	FACU
Trifolium pratense	Red Clover	FACU
Trifolium repens	White Clover	FACU
Uvularia sessilifolia	Sessile-Leaf Bellwort	FACU
Veratrum viride	American False Hellebore	FACW
Verbascum thapsus	Great Mullein	UPL

^{*}Scientific names, common names, and wetland indicators are obtained from the National Wetland Plant List (US Army Corps of Engineers, 2016). For plants not on the list (i.e. having an "NL" wetland indicator), scientific and common names are taken from Weldy et al. (2018).

Obligate Wetland (OBL) = Almost always occur in wetlands

Facultative Wetland (FACW) = Usually occur in wetlands, but may occur in non-wetlands

Facultative (FAC) = Occur in wetlands or non-wetlands

Facultative Upland (FACU) = Usually occur in non-wetlands, but may occur in wetlands

Obligate Upland (UPL) = Almost never occur in wetlands

Plants not on the list (NL) are considered to be the same as UPL for delineation purposes.

[†]The Wetland Indicator refers to the affinity of the plant for wetland environments:

APPENDIX E

Photographs of the Project Site



Photo #1
Description: View north of Wetland A. This wetland contains forested and ponded habitat.



Photo #2 Description: View east of Wetland A.



Photo #3
Description: View south of the upland forest adjacent to Wetland A.



Photo #4
Description: View west of the upland forest adjacent to Wetland A.



Photo #5
Description: View north of Wetland B a forested wetland.



Photo #6
Description: View south of Wetland B.



Photo #7
Description: View west of the upland forest adjacent to Wetland B.



Photo #8
Description: View north of the upland forest adjacent to Wetland B.



Photo #9

Description: View south of a portion of Wetland C.



Photo #10

Description: View east of the off-site stream that is partially fed by Wetland C.



Photo #11
Description: View east of the upland forest adjacent to Wetland C.



Photo #12
Description: View west of the upland forest adjacent to Wetland C.



Photo #13
Description: View north of Wetland D a forested wetland between rock outcrops.



Photo #14
Description: View south of the southern tip of Wetland D.



Photo #15
Description: View north of the forested upland between Wetlands D and E.



Photo #16
Description: View south of the forested upland between Wetlands D and E.

APPENDIX F

Wetland Determination Data Forms

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Lincoln Park Grid Support Center	City/C	ounty: Town	of Ulster, Uls	ster County Sampling Date: 12/11/2018
Applicant/Owner: Lincoln Park DG, LLC				State: NY Sampling Point: A-15-W
Investigator(s): David MacDougall		Section,	Γownship, Ra	ange: N/A
Landform (hillslope, terrace, etc.): depression	Local R	elief (concave	, convex, no	ne): concave Slope %:1
Subregion (LRR or MLRA): LRR R Latitude	e: 41 5	57′34.78′′°N	Longitud	de: -73 58′53.34″ ° W Datum: WGS 84
Soil Map Unit Name: Volusia channery silt loam, 0 to 8	percent slope	es (VsB)		NWI Classification: PFO
Are climatic/hydrologic conditions on the site typical for the	his time of yea	ar? Ye	es 🗸 No	(If no, explain in Remarks.)
Are Vegetation , Soil , or hydrology significantly	•		"Normal Cir	cumstances" present? Yes
Are Vegetation , Soil , or hydrology naturally pr				ain any answers in remarks.)
				·
SUMMARY OF FINDINGS - Attach site map sho	wing samp			
Hydrophytic Vegetation Present? Yes V No No		Is the Sai	mpled Area	within a Wetland? Yes 🗸 No 🔃
Hydric Soil Present? Yes V No				
Wetland Hydrology Present? Yes ✓ No		If yes, op	tional Wetla	nd Site ID: A
Remarks: (Explain alternative procedures here or in a sepa	arate report.)			
HYDROLOGY				
Wetland Hydrology Indicators:				Secondary Indicators (minimum of 2)
Primary Indicators (minimum of one is required; check all				Surface Soil Cracks (B6)
✓ Surface Water (A1) ✓ High Water Table (A2)	Aquatic Fau	ned Leaves (B9)	Drainage Patterns (B10) Moss Trim Lines (B16)
✓ Saturation (A3)	Marl Depos			Dry-Season Water Table (C2)
Water Marks (B1)	╡ :	ulfide Odor (C	1)	Crayfish Burrows (C8)
Sediment Deposits (B2)	Oxidized Rh	nizospheres or	Living Root	s (C3) Saturation Visible on Aerial (C9)
Drift Deposits (B3)	Presence of	f Reduced Iron	(C4)	Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4)	i	Reduction in	Tilled Soils (
Iron Deposits (B5)	Thin Muck S			Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7)	_ Other (Expi	ain in Remark	5)	Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8) Field Observations:		T		FAC-Neutral Test (D5)
Surface Water Present? Yes V No Depth (inch	es): 10)		
Water Table Present? Yes V No Depth (inch	· ·			
Saturation Present? Yes V No Depth (inch	es): 0		Wetlan	d Hydrology Present? Yes 🗸 No 🗌
(includes capillary fringe)				
Describe Recorded Data (stream gauge, monitoring well, a	aerial photos,	previous insp	ections), if a	vailable:
Water was frozen at the surface, ice 2-3 inches thick				
Remarks:				
VEGETATION - Use Scientific Names of Plants.				
	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 20' radius)	% Cover	Species?	Status	Number of Dominant Species
1 Populus deltoides	8	No	FAC	That Are OBL, FACW, or FAC: 4 (A)
2 Fraxinus pensylvanica	15	Yes	FACW	
3 Salix nigra	30	Yes	OBL	Total Number of Dominant
5				Species Across All Strata: 4 (B)
6				Percent of Dominant Species
7				That Are OBL, FACW, or FAC: 100% (A/B)
(50%/20% = 27 / 11)	53 =	Total Cover		· · · · · · · · · · · · · · · · · · ·
Sapling/Shrub Stratum (Plot size: 15' radius)				Prevalence Index worksheet:
1 Fraxinus pensylvanica	20	Yes	FACW	Total % Cover of: Multiply by:
2			-	OBL species x 1
3			-	FACW species x 2 FAC species x 3
5				FACU species x 4
6				UPL Species x 5
7				Column Totals: (A) (B)
(50%/20% = 10 / 4)	20 =	Total Cover		Prevalence Index = B/A =



Vegetation (continued)	Absolute	Dominant	Indicator	Hydrophytic Vegetation Indicators:
Herb Stratum (Plot size: 5' radius)	% Cover	Species?	Status	Rapid Test for Hydrophytic Vegetation
1 Phragmites australis	30	Yes	FACW	Dominance test is >50%
2 Solidago gigantea	5	No	FACW	Prevalence Index is ≤3.0 ¹
3 Cornus racemosa	5	No	FAC	Morphological Adaptations ¹ (Provide Supporting
4				data in Remarks or on a separate sheet)
5				Problematic Hydrophytic Vegetation ¹ (Explain)
6				¹ Indicators of hydric soil and wetland hydrology must
7				be present, unless disturbed or problematic.
(50%/20% = 20 / 8)	40	= Total Cover		Definitions of Vegetation Strata:
Noody Vine Stratum (Plot size: 5' radius)				Tree: Woody plants 3 in. (7.6cm) or more in diameter
1 NONE				at breast height (DBH), regardless of height.
2				Sapling/shrub: Woody plants less than 3 in. DBH
3				and greater than 3.28 ft (1m) tall. Herb: All herbaceous (non-woody) plants, regardless
* 5				of size, and woody plants less than 3.28 ft tall.
5 6				Woody Vines: All woody vines greater than 3.28 ft in
7				height.
(50%/20% = 0 / 0)		= Total Cover		Hydrophytic Vegetation Present? Yes ✓ No
Remarks: (Include photo numbers here or on a separa				,
lerbaceous vegetation was sparse AC Neutral: Yes.				
SOIL				
rofile Description: (Describe to the depth needed to	document the	indicator or conf	firm the abs	sence of indicators.)
Depth Matrix	Redox Featur	es	_	
(inches) Color (moist) % Color (mois	t) %	Type ¹ Loc ²	Textu	ure Remarks
				Not collected
Type: C-Concentration, D-Depletion, RM-Reduced N	Matrix CS-Cove	red or Coated Sa	nd Grains	² Location: DI – Pore Lining M–Matrix
	Matrix, CS=Cove	red or Coated Sa	nd Grains.	² Location: PL=Pore Lining, M=Matrix.
lydric Soil Indicators:				Indicators for Problematic Hydric Soils ³ :
Hydric Soil Indicators: Histosol (A1)	Polyvalue Belo	w Surface (S8) (L		Indicators for Problematic Hydric Soils ³ : 2 cm Muck (A10) (LRR K, L, MLRA 149B)
Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2)	Polyvalue Belo MLRA 149B)	w Surface (S8) (L)	RR R,	Indicators for Problematic Hydric Soils ³ : 2 cm Muck (A10) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R)
Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3)	Polyvalue Belo MLRA 149B) Thin Dark Surfa	w Surface (S8) (L) ace (S9) (LRR R, N	RR R, VILRA 149B)	Indicators for Problematic Hydric Soils ³ : 2 cm Muck (A10) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4)	Polyvalue Belo MLRA 149B Thin Dark Surfa Loamy Mucky I	w Surface (S8) (L) ace (S9) (LRR R, N Mineral (F1) (LRF	RR R, VILRA 149B)	Indicators for Problematic Hydric Soils ³ : 2 cm Muck (A10) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Dark Surface (S7) (LRR K, L)
Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5)	Polyvalue Belo MLRA 149B Thin Dark Surfa Loamy Mucky I Loamy Gleyed	w Surface (S8) (L) ace (S9) (LRR R, N Mineral (F1) (LRF Matrix (F2)	RR R, VILRA 149B)	Indicators for Problematic Hydric Soils ³ : 2 cm Muck (A10) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Dark Surface (S7) (LRR K, L) Polyvalue Below Surface (S8) (LRR K, L)
Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A11)	Polyvalue Belo MLRA 149B Thin Dark Surfa Loamy Mucky I Loamy Gleyed Depleted Matr	w Surface (S8) (L) ace (S9) (LRR R, N Mineral (F1) (LRF Matrix (F2) ix (F3)	RR R, VILRA 149B)	Indicators for Problematic Hydric Soils ³ : 2 cm Muck (A10) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Dark Surface (S7) (LRR K, L) Polyvalue Below Surface (S8) (LRR K, L) Thin Dark Surface (S9) (LRR K, L)
Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thick Dark Surface (A12)	Polyvalue Belo MLRA 149B Thin Dark Surfa Loamy Mucky I Loamy Gleyed Depleted Matr Redox Dark Sur	w Surface (S8) (L) ace (S9) (LRR R, M Mineral (F1) (LRF Matrix (F2) ix (F3) rface (F6)	RR R, VILRA 149B)	Indicators for Problematic Hydric Soils ³ : 2 cm Muck (A10) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Dark Surface (S7) (LRR K, L) Polyvalue Below Surface (S8) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L, R)
Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1)	Polyvalue Belo MLRA 149B, Thin Dark Surfa Loamy Mucky I Loamy Gleyed Depleted Matr Redox Dark Sul Depleted Dark	w Surface (S8) (L) ace (S9) (LRR R, M Mineral (F1) (LRF Matrix (F2) ix (F3) rface (F6) Surface (F7)	RR R, VILRA 149B)	Indicators for Problematic Hydric Soils ³ : 2 cm Muck (A10) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Dark Surface (S7) (LRR K, L) Polyvalue Below Surface (S8) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B
Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4)	Polyvalue Belo MLRA 149B Thin Dark Surfa Loamy Mucky I Loamy Gleyed Depleted Matr Redox Dark Sur	w Surface (S8) (L) ace (S9) (LRR R, M Mineral (F1) (LRF Matrix (F2) ix (F3) rface (F6) Surface (F7)	RR R, VILRA 149B)	Indicators for Problematic Hydric Soils ³ : 2 cm Muck (A10) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Dark Surface (S7) (LRR K, L) Polyvalue Below Surface (S8) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Mesic Spodic (TX6) (MLRA 144A, 145, 149B)
Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5)	Polyvalue Belo MLRA 149B, Thin Dark Surfa Loamy Mucky I Loamy Gleyed Depleted Matr Redox Dark Sul Depleted Dark	w Surface (S8) (L) ace (S9) (LRR R, M Mineral (F1) (LRF Matrix (F2) ix (F3) rface (F6) Surface (F7)	RR R, VILRA 149B)	Indicators for Problematic Hydric Soils ³ : 2 cm Muck (A10) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Dark Surface (S7) (LRR K, L) Polyvalue Below Surface (S8) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Mesic Spodic (TX6) (MLRA 144A, 145, 149B) Red Parent Material (F21)
Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6)	Polyvalue Belo MLRA 149B, Thin Dark Surfa Loamy Mucky I Loamy Gleyed Depleted Matr Redox Dark Sul Depleted Dark	w Surface (S8) (L) ace (S9) (LRR R, M Mineral (F1) (LRF Matrix (F2) ix (F3) rface (F6) Surface (F7)	RR R, VILRA 149B)	Indicators for Problematic Hydric Soils ³ : 2 cm Muck (A10) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Dark Surface (S7) (LRR K, L) Polyvalue Below Surface (S8) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Mesic Spodic (TX6) (MLRA 144A, 145, 149B) Red Parent Material (F21) Very Shallow Dark Surface (TF12)
Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B)	Polyvalue Belo MLRA 149B Thin Dark Surfa Loamy Mucky I Loamy Gleyed Depleted Matr Redox Dark Sur Depleted Dark Redox Depress	w Surface (S8) (L) ace (S9) (LRR R, N Mineral (F1) (LRR Matrix (F2) ix (F3) rface (F6) Surface (F7) ions (F8)	RR R, VILRA 149B) R K, L)	Indicators for Problematic Hydric Soils ³ : 2 cm Muck (A10) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Dark Surface (S7) (LRR K, L) Polyvalue Below Surface (S8) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Mesic Spodic (TX6) (MLRA 144A, 145, 149B) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Other (Explain in Remarks)
Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Redox (S5) Stripped Matrix (S4) Dark Surface (S7) (LRR R, MLRA 149B)	Polyvalue Belo MLRA 149B Thin Dark Surfa Loamy Mucky I Loamy Gleyed Depleted Matr Redox Dark Sur Depleted Dark Redox Depress	w Surface (S8) (L) ace (S9) (LRR R, N Mineral (F1) (LRR Matrix (F2) ix (F3) rface (F6) Surface (F7) ions (F8)	RR R, VILRA 149B) R K, L)	Indicators for Problematic Hydric Soils ³ : 2 cm Muck (A10) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Dark Surface (S7) (LRR K, L) Polyvalue Below Surface (S8) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Mesic Spodic (TX6) (MLRA 144A, 145, 149B) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Other (Explain in Remarks)
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Project/Site: Lincoln Park Grid Support Center	City/Co	ounty: Town	of Ulster, Uls	ster County	Sampling Date:	12/11/2018
Applicant/Owner: Lincoln Park DG, LLC				State: NY	Sampling Point:	A-15-W
Investigator(s): David MacDougall		Section,	Γownship, Ra	ange: N/A		
Landform (hillslope, terrace, etc.): hill slope	Local Re	elief (concave	, convex, no	ne): none	Slop	oe %: 3
Subregion (LRR or MLRA): LRR R Latitude		41 ° N	Longitud	le:	-73. °W Datur	n: WGS 84
Soil Map Unit Name: Volusia channery silt loam, 0 to 8	percent slope	s (VsB)		NWI Cla	assification: None	
Are climatic/hydrologic conditions on the site typical for t	his time of yea	ır? Ye	es 🗸 No	(If no, explain in Re	emarks.)	
Are Vegetation , Soil , or hydrology significantly	disturbed?	Are	"Normal Cir	cumstances" present? Ye	es 🗸 No	
Are Vegetation , Soil , or hydrology naturally pr				ain any answers in remai		
				•	·	
SUMMARY OF FINDINGS - Attach site map sho	wing sampl					
Hydrophytic Vegetation Present? Yes No		Is the Sar	mpled Area	within a Wetland? Ye	es No 🗸	
Hydric Soil Present? Yes No						
Wetland Hydrology Present? Yes No 🗸		If yes, op	tional Wetla	nd Site ID:		
Remarks: (Explain alternative procedures here or in a sepa	arate report.)					
Upland area adjacent to Wetland A.						
HYDROLOGY						
Wetland Hydrology Indicators:					Indicators (minimu	m of 2)
Primary Indicators (minimum of one is required; check all	1	ad Lagues (DO	۸		ace Soil Cracks (B6)	
Surface Water (A1) High Water Table (A2)	Aquatic Faur	ed Leaves (B9 na (B13))	_	nage Patterns (B10) s Trim Lines (B16)	
Saturation (A3)	Marl Deposi	. ,		=	Season Water Table	(C2)
Water Marks (B1)	╡ :	ulfide Odor (C	1)		fish Burrows (C8)	` ,
Sediment Deposits (B2)	Oxidized Rhi	izospheres on	Living Root	s (C3) Satur	ration Visible on Aeı	rial (C9)
Drift Deposits (B3)	₹	Reduced Iron	-	_	ted or Stressed Plan	` '
Algal Mat or Crust (B4)	╡	Reduction in	Tilled Soils (· =	norphic Position (D2)	2)
Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7)	Thin Muck S	ain in Remarks	-1	=	ow Aquitard (D3) otopographic Relief	(D4)
Sparsely Vegetated Concave Surface (B8)] Other (Expla	illi illi ilelliai k	• /		Neutral Test (D5)	(04)
Field Observations:					vedital rest (DS)	
Surface Water Present? Yes No Depth (inch	es):					
	es):					
Saturation Present? Yes No Depth (inch	es):		Wetlan	d Hydrology Present?	Yes No 🗸	
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, a	orial photos	nrovious insp	actions) if a	vailable		
Describe Recorded Data (stream gauge, monitoring well, a	ieriai pilotos, p	previous irispi	ections), ii a	valiable.		
Remarks:						
VEGETATION - Use Scientific Names of Plants.						
	Absolute	Dominant	Indicator	Dominance Test worksh	ieet:	
Tree Stratum (Plot size: 20' radius)	% Cover	Species?		Number of Dominant Sp		
1 Pinus strobus	10	No	FACU	That Are OBL, FACW, or	FAC: 0	(A)
2 Quercus rubra	30 40	Yes Yes	FACU FACU	Total Number of Domina		
3 Tsuga canadensis 4	40	res	FACU	Species Across All Strata		(B)
5				opecies / tel oss / til sti utu		(5)
6				Percent of Dominant Sp	ecies	
7				That Are OBL, FACW, or	FAC: 0%	(A/B)
(50%/20% = 40 / 16)	= 08	Total Cover				
Sapling/Shrub Stratum (Plot size: 15' radius)			FACIL	Prevalence Index works		101 - 1 - 1-
1 Quercus rubra 2 Pinus strobus	2 2	Yes Yes	FACU FACU	Total % Cover of: OBL species	Mu x 1	ltiply by:
3 Vaccinium angustifolium	1	Yes	FACU	FACW species	x1	
4			77.55	FAC species	x3	
5				FACU species	x 4	
6				UPL Species	x 5	
7		T. I. I. C.		Column Totals:	(A)	(B)
(50%/20% = 2.5 / 1)	5 =	Total Cover		Prevalence Index =	: B/A =	



	Absolute	Dominant	Indicator	Hydrophytic Vegetation Indicators:
Herb Stratum (Plot size: 5' radius)	% Cover		Status	Rapid Test for Hydrophytic Vegetation
1 Stachys byzantina	2	No	FACU	Dominance test is >50%
2			TACO	Prevalence Index is ≤3.0 [±]
				4 = .
3				Morphological Adaptations¹ (Provide Supporting
4				data in Remarks or on a separate sheet)
5				Problematic Hydrophytic Vegetation ¹ (Explain)
6				Indicators of hydric soil and wetland hydrology must
7				be present, unless disturbed or problematic.
(50%/20% = 1 / 0.4)	2	= Total Cover		Definitions of Vegetation Strata:
Woody Vine Stratum (Plot size: 5' radius)		_		Tree: Woody plants 3 in. (7.6cm) or more in diameter
1 NONE				at breast height (DBH), regardless of height.
2				Sapling/shrub: Woody plants less than 3 in. DBH
3				and greater than 3.28 ft (1m) tall.
4				Herb: All herbaceous (non-woody) plants, regardless
5	_			of size, and woody plants less than 3.28 ft tall.
6				Woody Vines: All woody vines greater than 3.28 ft in
7				•
·		- Total C		height.
(50%/20% = 0 / 0)	0	= Total Cover		Hydrophytic Vegetation Present? Yes No 🗸
Remarks: (Include photo numbers here or on a separ	ate sheet.)			
Herbaceous layer is mostly absent				
FAC Neutral: No.				
A stratum with less than 5 percent total cover is not o	onsidered in the	e dominance tes	t unless it is	s the only stratum present
A stratum with less than 5 percent total cover is not t	onsidered in the	a dominiance tes	i, uniess it is	s the only stratum present.
SOIL				
Profile Description: (Describe to the depth needed to	document the	indicator or con	firm the abs	sence of indicators.)
Depth Matrix	Redox Featur	es		•
(inches) Color (moist) % Color (moist		Type ¹ Loc ²	Text	ure Remarks
	70	Type Loc	Silt loar	
0 - 8 10YR 5/4 100			Siit ioai	<u>"</u> -
¹ Type: C=Concentration, D=Depletion, RM=Reduced I	Matrix CS-Covo	rad or Coatad Sa		
Type. C-Concentration, D-Depletion, Rivi-Reduced I	viatrix, CS-COVE	red or coated sa	nd Grains.	² Location: PL=Pore Lining, M=Matrix.
	viatrix, C3–Cove	red or coated sa	nd Grains.	-
Hydric Soil Indicators:				Indicators for Problematic Hydric Soils ³ :
Hydric Soil Indicators: Histosol (A1)	Polyvalue Belo	w Surface (S8) (L		Indicators for Problematic Hydric Soils ³ : 2 cm Muck (A10) (LRR K, L, MLRA 149B)
Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2)	Polyvalue Belo MLRA 149B	w Surface (S8) (L)	RR R,	Indicators for Problematic Hydric Soils ³ : 2 cm Muck (A10) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R)
Hydric Soil Indicators: Histosol (A1)	Polyvalue Belo MLRA 149B	w Surface (S8) (L	RR R,	Indicators for Problematic Hydric Soils ³ : 2 cm Muck (A10) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2)	Polyvalue Belo MLRA 149B Thin Dark Surfa	w Surface (S8) (L)	RR R, ∕ILRA 149B)	Indicators for Problematic Hydric Soils ³ : 2 cm Muck (A10) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R)
Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3)	Polyvalue Belo MLRA 149B Thin Dark Surfa	w Surface (S8) (L) ace (S9) (LRR R, I Mineral (F1) (LRF	RR R, ∕ILRA 149B)	Indicators for Problematic Hydric Soils ³ : 2 cm Muck (A10) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5)	Polyvalue Belo MLRA 149B Thin Dark Surfa Loamy Mucky I Loamy Gleyed	w Surface (S8) (L) ace (S9) (LRR R, N Mineral (F1) (LRN Matrix (F2)	RR R, ∕ILRA 149B)	Indicators for Problematic Hydric Soils ³ : 2 cm Muck (A10) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Dark Surface (S7) (LRR K, L)
Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A11)	Polyvalue Belo MLRA 149B Thin Dark Surfa Loamy Mucky I Loamy Gleyed Depleted Matr	w Surface (S8) (L) ace (S9) (LRR R, M Mineral (F1) (LRF Matrix (F2) ix (F3)	RR R, ∕ILRA 149B)	Indicators for Problematic Hydric Soils ³ : 2 cm Muck (A10) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Dark Surface (S7) (LRR K, L) Polyvalue Below Surface (S8) (LRR K, L) Thin Dark Surface (S9) (LRR K, L)
Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thick Dark Surface (A12)	Polyvalue Belo MLRA 149B Thin Dark Surfa Loamy Mucky I Loamy Gleyed Depleted Matr Redox Dark Sur	w Surface (S8) (L) ace (S9) (LRR R, I Mineral (F1) (LRI Matrix (F2) ix (F3) rface (F6)	RR R, ∕ILRA 149B)	Indicators for Problematic Hydric Soils ³ : 2 cm Muck (A10) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Dark Surface (S7) (LRR K, L) Polyvalue Below Surface (S8) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L, R)
Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1)	Polyvalue Belo MLRA 149B, Thin Dark Surfa Loamy Mucky I Loamy Gleyed Depleted Matr Redox Dark Sur	w Surface (S8) (L) ace (S9) (LRR R, I Mineral (F1) (LRI Matrix (F2) ix (F3) rface (F6) Surface (F7)	RR R, ∕ILRA 149B)	Indicators for Problematic Hydric Soils ³ : 2 cm Muck (A10) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Dark Surface (S7) (LRR K, L) Polyvalue Below Surface (S8) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B)
Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4)	Polyvalue Belo MLRA 149B Thin Dark Surfa Loamy Mucky I Loamy Gleyed Depleted Matr Redox Dark Sur	w Surface (S8) (L) ace (S9) (LRR R, I Mineral (F1) (LRI Matrix (F2) ix (F3) rface (F6) Surface (F7)	RR R, ∕ILRA 149B)	Indicators for Problematic Hydric Soils ³ : 2 cm Muck (A10) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Dark Surface (S7) (LRR K, L) Polyvalue Below Surface (S8) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Mesic Spodic (TX6) (MLRA 144A, 145, 149B)
Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Redox (S5)	Polyvalue Belo MLRA 149B, Thin Dark Surfa Loamy Mucky I Loamy Gleyed Depleted Matr Redox Dark Sur	w Surface (S8) (L) ace (S9) (LRR R, I Mineral (F1) (LRI Matrix (F2) ix (F3) rface (F6) Surface (F7)	RR R, ∕ILRA 149B)	Indicators for Problematic Hydric Soils ³ : 2 cm Muck (A10) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Dark Surface (S7) (LRR K, L) Polyvalue Below Surface (S8) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Mesic Spodic (TX6) (MLRA 144A, 145, 149B) Red Parent Material (F21)
Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Redox (S5) Stripped Matrix (S6)	Polyvalue Belo MLRA 149B, Thin Dark Surfa Loamy Mucky I Loamy Gleyed Depleted Matr Redox Dark Sur	w Surface (S8) (L) ace (S9) (LRR R, I Mineral (F1) (LRI Matrix (F2) ix (F3) rface (F6) Surface (F7)	RR R, ∕ILRA 149B)	Indicators for Problematic Hydric Soils ³ : 2 cm Muck (A10) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Dark Surface (S7) (LRR K, L) Polyvalue Below Surface (S8) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Mesic Spodic (TX6) (MLRA 144A, 145, 149B) Red Parent Material (F21) Very Shallow Dark Surface (TF12)
Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Redox (S5)	Polyvalue Belo MLRA 149B, Thin Dark Surfa Loamy Mucky I Loamy Gleyed Depleted Matr Redox Dark Sur	w Surface (S8) (L) ace (S9) (LRR R, I Mineral (F1) (LRI Matrix (F2) ix (F3) rface (F6) Surface (F7)	RR R, ∕ILRA 149B)	Indicators for Problematic Hydric Soils ³ : 2 cm Muck (A10) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Dark Surface (S7) (LRR K, L) Polyvalue Below Surface (S8) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Mesic Spodic (TX6) (MLRA 144A, 145, 149B) Red Parent Material (F21)
Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B)	Polyvalue Belo MLRA 149B Thin Dark Surfa Loamy Mucky I Loamy Gleyed Depleted Matr Redox Dark Sur Depleted Dark Redox Depress	w Surface (S8) (L) ace (S9) (LRR R, N Mineral (F1) (LRN Matrix (F2) ix (F3) rface (F6) Surface (F7) ions (F8)	RR R, //LRA 149B) R K, L)	Indicators for Problematic Hydric Soils ³ : 2 cm Muck (A10) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Dark Surface (S7) (LRR K, L) Polyvalue Below Surface (S8) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Mesic Spodic (TX6) (MLRA 144A, 145, 149B) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Other (Explain in Remarks)
Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Indicators of hydrophytic vegetation and wetland hy	Polyvalue Belo MLRA 149B Thin Dark Surfa Loamy Mucky I Loamy Gleyed Depleted Matr Redox Dark Sur Depleted Dark Redox Depress	w Surface (S8) (L) ace (S9) (LRR R, N Mineral (F1) (LRN Matrix (F2) ix (F3) rface (F6) Surface (F7) ions (F8)	RR R, //LRA 149B) R K, L)	Indicators for Problematic Hydric Soils ³ : 2 cm Muck (A10) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Dark Surface (S7) (LRR K, L) Polyvalue Below Surface (S8) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Mesic Spodic (TX6) (MLRA 144A, 145, 149B) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Other (Explain in Remarks)
Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Indicators of hydrophytic vegetation and wetland hy Restrictive Layer (if observed):	Polyvalue Belo MLRA 149B Thin Dark Surfa Loamy Mucky I Loamy Gleyed Depleted Matr Redox Dark Sur Depleted Dark Redox Depress	w Surface (S8) (L) ace (S9) (LRR R, N Mineral (F1) (LRN Matrix (F2) ix (F3) rface (F6) Surface (F7) ions (F8)	RR R, //LRA 149B) R K, L)	Indicators for Problematic Hydric Soils ³ : 2 cm Muck (A10) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Dark Surface (S7) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Mesic Spodic (TX6) (MLRA 144A, 145, 149B) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Other (Explain in Remarks)
Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Indicators of hydrophytic vegetation and wetland hy Restrictive Layer (if observed): Type: rock gravel	Polyvalue Belo MLRA 149B Thin Dark Surfa Loamy Mucky I Loamy Gleyed Depleted Matr Redox Dark Sur Depleted Dark Redox Depress	w Surface (S8) (L) ace (S9) (LRR R, N Mineral (F1) (LRN Matrix (F2) ix (F3) rface (F6) Surface (F7) ions (F8)	RR R, //LRA 149B) R K, L)	Indicators for Problematic Hydric Soils ³ : 2 cm Muck (A10) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Dark Surface (S7) (LRR K, L) Polyvalue Below Surface (S8) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Mesic Spodic (TX6) (MLRA 144A, 145, 149B) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Other (Explain in Remarks)
Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Indicators of hydrophytic vegetation and wetland hy Restrictive Layer (if observed):	Polyvalue Belo MLRA 149B Thin Dark Surfa Loamy Mucky I Loamy Gleyed Depleted Matr Redox Dark Sur Depleted Dark Redox Depress	w Surface (S8) (L) ace (S9) (LRR R, N Mineral (F1) (LRN Matrix (F2) ix (F3) rface (F6) Surface (F7) ions (F8)	RR R, //LRA 149B) R K, L)	Indicators for Problematic Hydric Soils ³ : 2 cm Muck (A10) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Dark Surface (S7) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Mesic Spodic (TX6) (MLRA 144A, 145, 149B) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Other (Explain in Remarks)
Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Indicators of hydrophytic vegetation and wetland hy Restrictive Layer (if observed): Type: rock gravel Depth (inches): 8	Polyvalue Belo MLRA 149B Thin Dark Surfa Loamy Mucky I Loamy Gleyed Depleted Matr Redox Dark Sur Depleted Dark Redox Depress	w Surface (S8) (L) ace (S9) (LRR R, N Mineral (F1) (LRN Matrix (F2) ix (F3) rface (F6) Surface (F7) ions (F8)	RR R, //LRA 149B) R K, L)	Indicators for Problematic Hydric Soils ³ : 2 cm Muck (A10) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Dark Surface (S7) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Mesic Spodic (TX6) (MLRA 144A, 145, 149B) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Other (Explain in Remarks)
Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Indicators of hydrophytic vegetation and wetland hy Restrictive Layer (if observed): Type: rock gravel	Polyvalue Belo MLRA 149B Thin Dark Surfa Loamy Mucky I Loamy Gleyed Depleted Matr Redox Dark Sur Depleted Dark Redox Depress	w Surface (S8) (L) ace (S9) (LRR R, N Mineral (F1) (LRN Matrix (F2) ix (F3) rface (F6) Surface (F7) ions (F8)	RR R, //LRA 149B) R K, L)	Indicators for Problematic Hydric Soils ³ : 2 cm Muck (A10) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Dark Surface (S7) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Mesic Spodic (TX6) (MLRA 144A, 145, 149B) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Other (Explain in Remarks)
Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) *Indicators of hydrophytic vegetation and wetland hy *Restrictive Layer (if observed): Type: _rock gravel Depth (inches): 8	Polyvalue Belo MLRA 149B Thin Dark Surfa Loamy Mucky I Loamy Gleyed Depleted Matr Redox Dark Sur Depleted Dark Redox Depress	w Surface (S8) (L) ace (S9) (LRR R, N Mineral (F1) (LRN Matrix (F2) ix (F3) rface (F6) Surface (F7) ions (F8)	RR R, //LRA 149B) R K, L)	Indicators for Problematic Hydric Soils ³ : 2 cm Muck (A10) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Dark Surface (S7) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Mesic Spodic (TX6) (MLRA 144A, 145, 149B) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Other (Explain in Remarks)
Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Indicators of hydrophytic vegetation and wetland hy Restrictive Layer (if observed): Type: rock gravel Depth (inches): 8	Polyvalue Belo MLRA 149B Thin Dark Surfa Loamy Mucky I Loamy Gleyed Depleted Matr Redox Dark Sur Depleted Dark Redox Depress	w Surface (S8) (L) ace (S9) (LRR R, N Mineral (F1) (LRN Matrix (F2) ix (F3) rface (F6) Surface (F7) ions (F8)	RR R, //LRA 149B) R K, L)	Indicators for Problematic Hydric Soils ³ : 2 cm Muck (A10) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Dark Surface (S7) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Mesic Spodic (TX6) (MLRA 144A, 145, 149B) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Other (Explain in Remarks)
Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Indicators of hydrophytic vegetation and wetland hy Restrictive Layer (if observed): Type: rock gravel Depth (inches): 8	Polyvalue Belo MLRA 149B Thin Dark Surfa Loamy Mucky I Loamy Gleyed Depleted Matr Redox Dark Sur Depleted Dark Redox Depress	w Surface (S8) (L) ace (S9) (LRR R, N Mineral (F1) (LRN Matrix (F2) ix (F3) rface (F6) Surface (F7) ions (F8)	RR R, //LRA 149B) R K, L)	Indicators for Problematic Hydric Soils ³ : 2 cm Muck (A10) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Dark Surface (S7) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Mesic Spodic (TX6) (MLRA 144A, 145, 149B) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Other (Explain in Remarks)
Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Indicators of hydrophytic vegetation and wetland hy Restrictive Layer (if observed): Type: rock gravel Depth (inches): 8	Polyvalue Belo MLRA 149B Thin Dark Surfa Loamy Mucky I Loamy Gleyed Depleted Matr Redox Dark Sur Depleted Dark Redox Depress	w Surface (S8) (L) ace (S9) (LRR R, N Mineral (F1) (LRN Matrix (F2) ix (F3) rface (F6) Surface (F7) ions (F8)	RR R, //LRA 149B) R K, L)	Indicators for Problematic Hydric Soils ³ : 2 cm Muck (A10) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Dark Surface (S7) (LRR K, L) Polyvalue Below Surface (S8) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Mesic Spodic (TX6) (MLRA 144A, 145, 149B) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Other (Explain in Remarks)
Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Indicators of hydrophytic vegetation and wetland hy Restrictive Layer (if observed): Type: rock gravel Depth (inches): 8	Polyvalue Belo MLRA 149B Thin Dark Surfa Loamy Mucky I Loamy Gleyed Depleted Matr Redox Dark Sur Depleted Dark Redox Depress	w Surface (S8) (L) ace (S9) (LRR R, N Mineral (F1) (LRN Matrix (F2) ix (F3) rface (F6) Surface (F7) ions (F8)	RR R, //LRA 149B) R K, L)	Indicators for Problematic Hydric Soils ³ : 2 cm Muck (A10) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Dark Surface (S7) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Mesic Spodic (TX6) (MLRA 144A, 145, 149B) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Other (Explain in Remarks)
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Project/Site: Lincoln Park Grid Support Center	City/C	County: Town	of Ulster, Ulst	ter County Sar	mpling Date: 12/	11/2018
Applicant/Owner: Lincoln Park DG, LLC				State: NY Sar	mpling Point: E	3-7-W
Investigator(s): David MacDougall		Section,	Township, Ra	nge: N/A		
Landform (hillslope, terrace, etc.): depression	Local P	Relief (concave	e, convex, non	ne): concave	Slope %	s: 0
Subregion (LRR or MLRA): LRR R Latitude	e: 41	57′34.31′′ ° N	Longitude	e: -73 58′50.48	3" ° W Datum:	WGS 84
Soil Map Unit Name: Nassau Bath Rock Outcrop Comp			_	NWI Classifica		
Are climatic/hydrologic conditions on the site typical for t			es 🗸 No	(If no, explain in Remark		
Are Vegetation , Soil , or hydrology significantly	•				7 No	
] 140	
Are Vegetation, Soil, or hydrologynaturally p	robiematice	(17.1	needed, expla	ain any answers in remarks.)		
SUMMARY OF FINDINGS - Attach site map sho	owing samp	oling point l	locations, t	ransects, important feat	tures, etc.	
Hydrophytic Vegetation Present? Yes 🗸 No 🗌		Is the Sa	mpled Area v	vithin a Wetland? Yes 🗸	No 🗌	
Hydric Soil Present? Yes 🗸 No						
Wetland Hydrology Present? Yes V No		If yes, op	otional Wetlar	nd Site ID: B		
Remarks: (Explain alternative procedures here or in a sep	arate report					
(2p.a areare p. 666aa. 65 116. 6 61 11 4 56p	u. u.c epo. c.,					
HYDROLOGY						
Wetland Hydrology Indicators:				Secondary Indica	ators (minimum o	of 2)
Primary Indicators (minimum of one is required; check all	I that apply)				Il Cracks (B6)	
Surface Water (A1)	/ Water Stair	ned Leaves (B	9)	Drainage P	atterns (B10)	
✓ High Water Table (A2)	Aquatic Fau	una (B13)		Moss Trim	Lines (B16)	
Saturation (A3)	Marl Depos	sits (B15)		= '	n Water Table (C2	2)
Water Marks (B1)	= ' ~	Sulfide Odor (C	•	Crayfish Bu	,	
Sediment Deposits (B2)	_	hizospheres or			Visible on Aerial	. ,
Drift Deposits (B3)	=	f Reduced Iron			Stressed Plants (I	D1)
Algal Mat or Crust (B4) Iron Deposits (B5)	=	n Reduction in Surface (C7)	Tilled Solls (C		ic Position (D2) uitard (D3)	
Inundation Visible on Aerial Imagery (B7)	=	lain in Remark	·c)		graphic Relief (D4	1)
Sparsely Vegetated Concave Surface (B8)		iaiii iii Keiliai k	,	✓ FAC-Neutra		*/
Field Observations:				TAC Neutre	11 1636 (123)	
Surface Water Present? Yes No Depth (inch	nes):					
Water Table Present? Yes 🗸 No 🗌 Depth (inch	hes): 1					
Saturation Present? Yes V No Depth (inch	hes): 1	-	Wetland	d Hydrology Present? Yes	✓ No 🗌	
(includes capillary fringe)						
Describe Recorded Data (stream gauge, monitoring well,	aerial photos,	, previous insp	ections), if av	railable:		
Remarks:						
VEGETATION - Use Scientific Names of Plants.						
VEGETATION OSC SCIENTING NAMES OF FIGURES.	Absolute	Dominant	Indicator	Dominance Test worksheet:		
Tree Stratum (Plot size: 20' radius)	% Cover	Species?		Number of Dominant Species		
1 Acer rubrum	30	Yes	FAC	That Are OBL, FACW, or FAC:	4	(A)
2 Quercus rubra	5	No	FACU			
3				Total Number of Dominant		
4				Species Across All Strata:	4	(B)
5						
6				Percent of Dominant Species	4000/	/ A / D \
7 (50%/20% = 18 / 7)	35	= Total Cover		That Are OBL, FACW, or FAC:	100%	(A/B)
Sapling/Shrub Stratum	33	- rotal Cover	<u> </u>	Prevalence Index worksheet:		
1 Acrer rubrum	5	Yes	FAC	Total % Cover of:	Multipl	ly by:
2 Carpinus caroliniana	5	Yes		OBL species	x 1	, · ,
3 Lindera benzoin	10	Yes		FACW species	x 2	
4 Cornus racemosa	2	No	FAC	FAC species	x 3	
5				FACU species	x 4	
6				UPL Species	x 5	
7		T-+-1.0		Column Totals:	(A)	(B)
(50%/20% = 11 / 4.4)	22	= Total Cover		Prevalence Index = B/A =	<u>:</u>	



Herb Stratum (Plot size: 5' radius)		Absolute	Dominant	Indicator	Hydrophytic Vegetation Indicators:
Morphological Adaptations' (Provide Supporting data in Remarks or on a separate sheet) Previous (Provide Supporting data in Remarks or on a separate sheet) Provide Supporting data in Remarks or on a separate sheet) Provide Supporting data in Remarks or on a separate sheet) Provide Supporting data in Remarks or on a separate sheet Provide Supporting data in Remarks or on a separate sheet Provide Supporting data in Remarks or on a separate sheet Provide Supporting data in Remarks or on a separate sheet Provide Supporting Matrix Provide Su	Herb Stratum (Plot size: 5' radius)	% Cover	Species?	Status	
Morphological Adaptations* (Provide Supporting data in Remarks or on a separate sheet) data in Remarks or on a separate sheet) Gold Richard Gold Ric					1 —
data in Remarks or on a separate sheet) Problematic Hydrofox (explain) Findicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.	2				Prevalence Index is ≤3.0 [±]
data in Remarks or on a separate sheet) Problematic Hydrofox (explain) Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.					Morphological Adaptations (Provide Supporting
Problematic Hydrophytic Vegetation (Explain)	4				4
Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.	· 5				
Definitions of Vegetation Strate: Noody Vine Stratum					1. —
Soys/20% = 0 / 0 0 Total Cover Definitions of Vegetation Strata: Tree: Woody plants (and Strata) Woody Vines (Plot size: 5' radius) Tree: Woody plants (and Strata) Woody vines (and Strata) Woody plants (and S					, · · ·
Tree: Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height. Suppling/Shrub: Woody plants less than 3 in. DBH and greater than 3.28 ft (1m) tall. Herbs: All herbaceous (non-woody) plants, regardless of height. Herbs: All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft (1m) tall. Herbs: All herbaceous (non-woody) plants, regardless of size, and woody Vines: All woody vines greater than 3.28 ft in. DBH and gr	·		= Total Cover		
at breast height (DBH), regardless of height. Sapling/shrub: Woody plants less than 3 in. DBH and greater than 3.28 ft (Im) tall. Herb: All herbaccous (non-woody) plants, regardless of size, and woody) plants less than 3.28 ft in height. (50%/20% = 0 / 0)	• •				_
Sapling/Arubi: Woody plants ises than 3 in. DBH and greater than 3.28 ft [1m] tall. 4					
and greater than 3.28 ft (1m) tall. Herb: All herbaceous (non-woody) plants, regardless of size, and woody) plants less than 3.28 ft tall. Go dize, and woody plants less than 3.28 ft tall. Woody Vines: All woody vines greater than 3.28 ft in height. For integration in height.					
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of size, and woody plants less than 3.28 ft tail. Woody Vines: All woody vines: All woody vines greater than 3.28 ft tail. Total Cover Hydrophytic Vegetation Present? Yes No No lemarks: (Include photo numbers here or on a separate sheet.) AC Neutral: Yes SOUL Troffie Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Matrix Redox Features (Inches) Color (moist) S Color (moist) Type' Loc' Texture Remarks O-12 10 YR 3/2 100 Silt loam Type: C-Concentration, D-Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: Concentration, D-Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: Concentration, D-Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: Concentration, D-Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: Concentration, D-Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: Concentration, D-Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: Concentration, D-Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Thin Carbon Surface (SD) (LRR R, L) Black Histic Epipedon (A2) Coast Prairie Redox (A16) (LRR K, L), R) Depleted Below Dark Surface (SD) (LRR R, L) Depleted Below Dark Surface (SB) (LRR K, L) Think Dark Surface (SD) (LRR K, L) Thick Dark Surface (SD) (LRR K, L) Thick Dark Surface (SD) (LRR K, L) Polyvalue Below Surface (SB) (LRR K, L) Polyvalue Below Dark Sur	4				
Woody Vines: All woody vines greater than 3.28 ft in height. No leight. No leight.	·				•
height height height hydrophytic Vegetation Present? Yes No	6	_			
Sow/20% = 0 / 0 0 = Total Cover Hydrophytic Vegetation Present? Yes No	7				1
AC Neutral: Yes Colument	(50%/20% = 0 / 0)		= Total Cover		
FAC Neutral: Yes SOIL	· · · · · · · · · · · · · · · · · · ·				Tryurophytic vegetation resent.
Depth (inches) Color (moist) % Color (moist) % Type¹ Loc² Texture Remarks O-12 10 YR 3/2 100 Silt loam Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Thidicators Given Muck (A10) (LRR K, L, MLRA 149B) Dark Surface (A10) (LRR K, L, R) Dark Surface (A10) (LRR K, L, R) Dark Surface (S7) (LRR K, L) Dark Surface (S7) (LRR K, L) Dark Surface (S9) (LRR K, L) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Sandy Mucky Mineral (S1) Depleted Matrix (F3) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: NONE Depth (inches): Hydric Soil Present? Yes V No		document the i	indicator or con	firm the abs	sence of indicators.)
Color (moist) Color (moist				the abs	
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix. Total Case (S8) (LRR R, Depleted Sand Grains. Total Case (S9) (LRR R, L) Total Case			1 1	_ Text	ure Remarks
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Natric Soil Indicators:	<u> </u>	70	Type Loc		
Nydric Soil Indicators: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, Histosol (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Histic Epipedon (A2) MLRA 149B) Som Mucky Peat or Peat (S3) (LRR K, L, R) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) (LRR K, L) Dark Surface (S7) (LRR K, L) Stratified Layers (A5) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Depleted Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L, R) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TX6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Type: NONE Depth (inches): Hydric Soil Present? Yes V No	0-12 10 IN 3/2 100			Jilt Ioai	
Histosol (A1) Polyvalue Below Surface (S8) (LRR R,					
Nydric Soil Indicators: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, Histosol (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) Stratified Layers (A5) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Mesic Spodic (TX6) (MLRA 144A, 145, 149B) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: NONE Depth (inches): Indicators for Problematic Hydric Soils? Indicators for Problematic Hydric Soils? 2 cm Muck (A10) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Coast Prairie Redox (A16) (LRR K, L, R					
Nydric Soil Indicators: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, Histosol (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) Stratified Layers (A5) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Mesic Spodic (TX6) (MLRA 144A, 145, 149B) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: NONE Depth (inches): Indicators for Problematic Hydric Soils? Indicators for Problematic Hydric Soils? 2 cm Muck (A10) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Coast Prairie Redox (A16) (LRR K, L, R					
Histosol (A1) Polyvalue Below Surface (S8) (LRR R,					
Histosol (A1) Polyvalue Below Surface (S8) (LRR R,					
Histosol (A1) Polyvalue Below Surface (S8) (LRR R,	Type: C=Concentration, D=Depletion, RM=Reduced M	Matrix, CS=Cover	red or Coated Sa	nd Grains.	² Location: PL=Pore Lining, M=Matrix.
Histic Epipedon (A2) MIRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) Stratified Layers (A5) Loamy Mucky Mineral (F1) (LRR K, L) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S4) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: NONE Depth (inches): Hydric Soil Present? Yes V No		Natrix, CS=Cover	red or Coated Sa	nd Grains.	
Black Histic (A3)	Hydric Soil Indicators:				Indicators for Problematic Hydric Soils ³ :
Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) (LRR K, L) Stratified Layers (A5) Depleted Below Dark Surface (A11) Depleted Matrix (F2) Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L, R) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Piedmont Floodplain Soils (F19) (MLRA 1498) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 1498) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: NONE Depth (inches): Hydric Soil Present? Yes V No	Hydric Soil Indicators: Histosol (A1)	Polyvalue Belov	w Surface (S8) (L		Indicators for Problematic Hydric Soils ³ : 2 cm Muck (A10) (LRR K, L, MLRA 149B)
Stratified Layers (A5) Depleted Below Dark Surface (A11) Depleted Matrix (F2) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: NONE Depleted Matrix (F2) Polyvalue Below Surface (S8) (LRR K, L) Polyvalue Below Surface (S8) (LRR K, L) Polyvalue Below Surface (S9) (LRR K, L) Polyvalue Below Surface (S9) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L, R) Polyvalue Below Surface (S9) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Polyvalue Below Surface (S9) (LRR K, L) Pinn Dark Surface (S9) (LRR K, L) Pinn Dark Surface (F5) Polyvalue Below Surface (F5) Pinn Dark Surface (F5) Polyvalue Below Surface (F5) Pinn Dark Surface (F5) Polyvalue Below Surface (F5) Pick Dark Surface (F5) Polyvalue Below	Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2)	Polyvalue Belov MLRA 149B)	w Surface (S8) (L	RR R,	Indicators for Problematic Hydric Soils ³ : 2 cm Muck (A10) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R)
Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thick Dark Surface (A12) Finith Dark Surface (S9) (LRR K, L) Finith Dark Surface (F6) Finith Dark Surface (F7) Finith Dark Surface (F7) Finith Dark Surface (F6) Finith Dark Surface (F6) Finith Dark Surface (F6) Finith Dark Surface (F6) Finith Dark	Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3)	Polyvalue Belov MLRA 149B) Thin Dark Surfa	w Surface (S8) (L ace (S9) (LRR R, I	RR R, VILRA 149B)	Indicators for Problematic Hydric Soils ³ : 2 cm Muck (A10) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
Thick Dark Surface (A12)	Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4)	Polyvalue Belov MLRA 149B) Thin Dark Surfa Loamy Mucky N	w Surface (S8) (L ice (S9) (LRR R, I Mineral (F1) (LRI	RR R, VILRA 149B)	Indicators for Problematic Hydric Soils ³ : 2 cm Muck (A10) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Dark Surface (S7) (LRR K, L)
Sandy Mucky Mineral (S1)	Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5)	Polyvalue Belov MLRA 149B) Thin Dark Surfa Loamy Mucky N Loamy Gleyed I	w Surface (S8) (L ice (S9) (LRR R, I Mineral (F1) (LRI Matrix (F2)	RR R, VILRA 149B)	Indicators for Problematic Hydric Soils ³ : 2 cm Muck (A10) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Dark Surface (S7) (LRR K, L) Polyvalue Below Surface (S8) (LRR K, L)
Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TX6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: NONE Depth (inches): Hydric Soil Present? Yes Vo	Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A11)	Polyvalue Belov MLRA 149B) Thin Dark Surfa Loamy Mucky N Loamy Gleyed I Depleted Matri	w Surface (S8) (L nce (S9) (LRR R, I Mineral (F1) (LRI Matrix (F2) x (F3)	RR R, VILRA 149B)	Indicators for Problematic Hydric Soils ³ : 2 cm Muck (A10) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Dark Surface (S7) (LRR K, L) Polyvalue Below Surface (S8) (LRR K, L) Thin Dark Surface (S9) (LRR K, L)
Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: NONE Depth (inches): Red Parent Material (F21) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) Hydric Soil Present? Yes V No	Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thick Dark Surface (A12)	Polyvalue Belov MLRA 149B) Thin Dark Surfa Loamy Mucky N Loamy Gleyed I Depleted Matri Redox Dark Sur	w Surface (S8) (L nce (S9) (LRR R, I Mineral (F1) (LRI Matrix (F2) x (F3) face (F6)	RR R, VILRA 149B)	Indicators for Problematic Hydric Soils ³ : 2 cm Muck (A10) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Dark Surface (S7) (LRR K, L) Polyvalue Below Surface (S8) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L, R)
Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: NONE Depth (inches): Hydric Soil Present? Yes Vo	Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1)	Polyvalue Belov MLRA 149B) Thin Dark Surfa Loamy Mucky N Loamy Gleyed I Depleted Matri Redox Dark Sur Depleted Dark	w Surface (S8) (L lice (S9) (LRR R, I Mineral (F1) (LRI Matrix (F2) ix (F3) face (F6) Surface (F7)	RR R, VILRA 149B)	Indicators for Problematic Hydric Soils ³ : 2 cm Muck (A10) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Dark Surface (S7) (LRR K, L) Polyvalue Below Surface (S8) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B)
Dark Surface (S7) (LRR R, MLRA 149B) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: NONE Depth (inches): Depth (inches): Other (Explain in Remarks) Hydric Soil Present? Yes V No	Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4)	Polyvalue Belov MLRA 149B) Thin Dark Surfa Loamy Mucky N Loamy Gleyed I Depleted Matri Redox Dark Sur Depleted Dark	w Surface (S8) (L lice (S9) (LRR R, I Mineral (F1) (LRI Matrix (F2) ix (F3) face (F6) Surface (F7)	RR R, VILRA 149B)	Indicators for Problematic Hydric Soils ³ : 2 cm Muck (A10) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Dark Surface (S7) (LRR K, L) Polyvalue Below Surface (S8) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Mesic Spodic (TX6) (MLRA 144A, 145, 149B)
Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: NONE Depth (inches): Hydric Soil Present? Yes Vo No	Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Redox (S5)	Polyvalue Belov MLRA 149B) Thin Dark Surfa Loamy Mucky N Loamy Gleyed I Depleted Matri Redox Dark Sur Depleted Dark	w Surface (S8) (L lice (S9) (LRR R, I Mineral (F1) (LRI Matrix (F2) ix (F3) face (F6) Surface (F7)	RR R, VILRA 149B)	Indicators for Problematic Hydric Soils ³ : 2 cm Muck (A10) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Dark Surface (S7) (LRR K, L) Polyvalue Below Surface (S8) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Mesic Spodic (TX6) (MLRA 144A, 145, 149B) Red Parent Material (F21)
Restrictive Layer (if observed): Type: NONE Depth (inches): Type: No Hydric Soil Present? Yes V No	Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Redox (S5) Stripped Matrix (S6)	Polyvalue Belov MLRA 149B) Thin Dark Surfa Loamy Mucky N Loamy Gleyed I Depleted Matri Redox Dark Sur Depleted Dark	w Surface (S8) (L lice (S9) (LRR R, I Mineral (F1) (LRI Matrix (F2) ix (F3) face (F6) Surface (F7)	RR R, VILRA 149B)	Indicators for Problematic Hydric Soils ³ : 2 cm Muck (A10) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Dark Surface (S7) (LRR K, L) Polyvalue Below Surface (S8) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Mesic Spodic (TX6) (MLRA 144A, 145, 149B) Red Parent Material (F21) Very Shallow Dark Surface (TF12)
Type: NONE Hydric Soil Present? Yes V No Depth (inches):	Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B)	Polyvalue Belov MLRA 149B) Thin Dark Surfa Loamy Mucky N Loamy Gleyed I Depleted Matri Redox Dark Sur Depleted Dark Redox Depressi	w Surface (S8) (L nce (S9) (LRR R, I Mineral (F1) (LRI Matrix (F2) ix (F3) face (F6) Surface (F7) ions (F8)	RR R, VILRA 149B) R K, L)	Indicators for Problematic Hydric Soils ³ : 2 cm Muck (A10) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Dark Surface (S7) (LRR K, L) Polyvalue Below Surface (S8) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Mesic Spodic (TX6) (MLRA 144A, 145, 149B) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Other (Explain in Remarks)
Depth (inches):	Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Redox (S5) Stripped Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B)	Polyvalue Belov MLRA 149B) Thin Dark Surfa Loamy Mucky N Loamy Gleyed I Depleted Matri Redox Dark Sur Depleted Dark Redox Depressi	w Surface (S8) (L nce (S9) (LRR R, I Mineral (F1) (LRI Matrix (F2) ix (F3) face (F6) Surface (F7) ions (F8)	RR R, VILRA 149B) R K, L)	Indicators for Problematic Hydric Soils ³ : 2 cm Muck (A10) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Dark Surface (S7) (LRR K, L) Polyvalue Below Surface (S8) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Mesic Spodic (TX6) (MLRA 144A, 145, 149B) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Other (Explain in Remarks)
	Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Andicators of hydrophytic vegetation and wetland hydrestrictive Layer (if observed):	Polyvalue Belov MLRA 149B) Thin Dark Surfa Loamy Mucky N Loamy Gleyed I Depleted Matri Redox Dark Sur Depleted Dark Redox Depressi	w Surface (S8) (L nce (S9) (LRR R, I Mineral (F1) (LRI Matrix (F2) ix (F3) face (F6) Surface (F7) ions (F8)	RR R, VILRA 149B) R K, L)	Indicators for Problematic Hydric Soils ³ : 2 cm Muck (A10) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Dark Surface (S7) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Mesic Spodic (TX6) (MLRA 144A, 145, 149B) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Other (Explain in Remarks)
remarks.	Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Indicators of hydrophytic vegetation and wetland hydrogen strictive Layer (if observed): Type: NONE	Polyvalue Belov MLRA 149B) Thin Dark Surfa Loamy Mucky N Loamy Gleyed I Depleted Matri Redox Dark Sur Depleted Dark Redox Depressi	w Surface (S8) (L nce (S9) (LRR R, I Mineral (F1) (LRI Matrix (F2) ix (F3) face (F6) Surface (F7) ions (F8)	RR R, VILRA 149B) R K, L)	Indicators for Problematic Hydric Soils ³ : 2 cm Muck (A10) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Dark Surface (S7) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Mesic Spodic (TX6) (MLRA 144A, 145, 149B) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Other (Explain in Remarks)
	Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Redox (S5) Stripped Matrix (S4) Dark Surface (S7) (LRR R, MLRA 149B) Indicators of hydrophytic vegetation and wetland hydropet (inches): Type: NONE Depth (inches):	Polyvalue Belov MLRA 149B) Thin Dark Surfa Loamy Mucky N Loamy Gleyed I Depleted Matri Redox Dark Sur Depleted Dark Redox Depressi	w Surface (S8) (L nce (S9) (LRR R, I Mineral (F1) (LRI Matrix (F2) ix (F3) face (F6) Surface (F7) ions (F8)	RR R, VILRA 149B) R K, L)	Indicators for Problematic Hydric Soils ³ : 2 cm Muck (A10) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Dark Surface (S7) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Mesic Spodic (TX6) (MLRA 144A, 145, 149B) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Other (Explain in Remarks)
	Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Redox (S5) Stripped Matrix (S4) Dark Surface (S7) (LRR R, MLRA 149B) Indicators of hydrophytic vegetation and wetland hydropet (inches): Type: NONE Depth (inches):	Polyvalue Belov MLRA 149B) Thin Dark Surfa Loamy Mucky N Loamy Gleyed I Depleted Matri Redox Dark Sur Depleted Dark Redox Depressi	w Surface (S8) (L nce (S9) (LRR R, I Mineral (F1) (LRI Matrix (F2) ix (F3) face (F6) Surface (F7) ions (F8)	RR R, VILRA 149B) R K, L)	Indicators for Problematic Hydric Soils ³ : 2 cm Muck (A10) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Dark Surface (S7) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Mesic Spodic (TX6) (MLRA 144A, 145, 149B) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Other (Explain in Remarks)
	Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Redox (S5) Stripped Matrix (S4) Dark Surface (S7) (LRR R, MLRA 149B) 3Indicators of hydrophytic vegetation and wetland hydropeth (inches): Type: NONE Depth (inches):	Polyvalue Belov MLRA 149B) Thin Dark Surfa Loamy Mucky N Loamy Gleyed I Depleted Matri Redox Dark Sur Depleted Dark Redox Depressi	w Surface (S8) (L nce (S9) (LRR R, I Mineral (F1) (LRI Matrix (F2) ix (F3) face (F6) Surface (F7) ions (F8)	RR R, VILRA 149B) R K, L)	Indicators for Problematic Hydric Soils ³ : 2 cm Muck (A10) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Dark Surface (S7) (LRR K, L) Polyvalue Below Surface (S8) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Mesic Spodic (TX6) (MLRA 144A, 145, 149B) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Other (Explain in Remarks)
	Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Redox (S5) Stripped Matrix (S4) Dark Surface (S7) (LRR R, MLRA 149B) Indicators of hydrophytic vegetation and wetland hydropet (inches): Type: NONE Depth (inches):	Polyvalue Belov MLRA 149B) Thin Dark Surfa Loamy Mucky N Loamy Gleyed I Depleted Matri Redox Dark Sur Depleted Dark Redox Depressi	w Surface (S8) (L nce (S9) (LRR R, I Mineral (F1) (LRI Matrix (F2) ix (F3) face (F6) Surface (F7) ions (F8)	RR R, VILRA 149B) R K, L)	Indicators for Problematic Hydric Soils ³ : 2 cm Muck (A10) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Dark Surface (S7) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Mesic Spodic (TX6) (MLRA 144A, 145, 149B) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Other (Explain in Remarks)
	Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Redox (S5) Stripped Matrix (S4) Dark Surface (S7) (LRR R, MLRA 149B) Indicators of hydrophytic vegetation and wetland hydropet (inches): Type: NONE Depth (inches):	Polyvalue Belov MLRA 149B) Thin Dark Surfa Loamy Mucky N Loamy Gleyed I Depleted Matri Redox Dark Sur Depleted Dark Redox Depressi	w Surface (S8) (L nce (S9) (LRR R, I Mineral (F1) (LRI Matrix (F2) ix (F3) face (F6) Surface (F7) ions (F8)	RR R, VILRA 149B) R K, L)	Indicators for Problematic Hydric Soils ³ : 2 cm Muck (A10) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Dark Surface (S7) (LRR K, L) Polyvalue Below Surface (S8) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Mesic Spodic (TX6) (MLRA 144A, 145, 149B) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Other (Explain in Remarks)
	Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Indicators of hydrophytic vegetation and wetland hydrophytic vegetation and wetland hydrophytic Layer (if observed): Type: NONE Depth (inches):	Polyvalue Belov MLRA 149B) Thin Dark Surfa Loamy Mucky N Loamy Gleyed I Depleted Matri Redox Dark Sur Depleted Dark Redox Depressi	w Surface (S8) (L nce (S9) (LRR R, I Mineral (F1) (LRI Matrix (F2) ix (F3) face (F6) Surface (F7) ions (F8)	RR R, VILRA 149B) R K, L)	Indicators for Problematic Hydric Soils ³ : 2 cm Muck (A10) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Dark Surface (S7) (LRR K, L) Polyvalue Below Surface (S8) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Mesic Spodic (TX6) (MLRA 144A, 145, 149B) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Other (Explain in Remarks)
	Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Redox (S5) Stripped Matrix (S4) Dark Surface (S7) (LRR R, MLRA 149B) Indicators of hydrophytic vegetation and wetland hydropet (inches): Type: NONE Depth (inches):	Polyvalue Belov MLRA 149B) Thin Dark Surfa Loamy Mucky N Loamy Gleyed I Depleted Matri Redox Dark Sur Depleted Dark Redox Depressi	w Surface (S8) (L nce (S9) (LRR R, I Mineral (F1) (LRI Matrix (F2) ix (F3) face (F6) Surface (F7) ions (F8)	RR R, VILRA 149B) R K, L)	Indicators for Problematic Hydric Soils ³ : 2 cm Muck (A10) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Dark Surface (S7) (LRR K, L) Polyvalue Below Surface (S8) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Mesic Spodic (TX6) (MLRA 144A, 145, 149B) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Other (Explain in Remarks)
	Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Redox (S5) Stripped Matrix (S4) Dark Surface (S7) (LRR R, MLRA 149B) Indicators of hydrophytic vegetation and wetland hydropet (inches): Type: NONE Depth (inches):	Polyvalue Belov MLRA 149B) Thin Dark Surfa Loamy Mucky N Loamy Gleyed I Depleted Matri Redox Dark Sur Depleted Dark Redox Depressi	w Surface (S8) (L nce (S9) (LRR R, I Mineral (F1) (LRI Matrix (F2) ix (F3) face (F6) Surface (F7) ions (F8)	RR R, VILRA 149B) R K, L)	Indicators for Problematic Hydric Soils ³ : 2 cm Muck (A10) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Dark Surface (S7) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Mesic Spodic (TX6) (MLRA 144A, 145, 149B) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Other (Explain in Remarks)



Project/Site: Lincoln Park Grid Support Center	City/Co	unty: Town	of Ulster, Uls	ster County	Sampling Date:	12/11/2018
Applicant/Owner: Lincoln Park DG, LLC				State: NY	Sampling Point	:: <u>B-7-Up</u>
Investigator(s): David MacDougall		Section, T	ownship, Ra	ange: N/A		
Landform (hillslope, terrace, etc.): hillslope	Local Re	lief (concave,	convex, noi	ne): none	Slo	ope %: 3
Subregion (LRR or MLRA): LRR R Latitude	 ::	41 ° N	Longitud	le:	-73. ° W Datı	um: WGS 84
Soil Map Unit Name: Nassau Bath Rock Outcrop Comp	lex, very steep	(NBF)	_	NWI Cla	assification: Non	ie
Are climatic/hydrologic conditions on the site typical for t	his time of year	r? Ye	s V No	(If no, explain in Ro	emarks.)	
Are Vegetation , Soil , or hydrology significantly	disturbed?	Are	"Normal Cir	cumstances" present? Yo	es 🗸 No	
Are Vegetation , Soil , or hydrology naturally pr				ain any answers in rema		
			•	•	•	
SUMMARY OF FINDINGS - Attach site map sho	wing sampli					<u>- </u>
Hydrophytic Vegetation Present? Yes No		Is the Sar	npled Area	within a Wetland? Ye	es No 🗸	
Hydric Soil Present? Yes No						
Wetland Hydrology Present? Yes No 🗸		If yes, op	ional Wetla	nd Site ID:		
Remarks: (Explain alternative procedures here or in a sep-	arate report.)					
Upland area adjacent to Wetland B.						
HYDROLOGY						
Wetland Hydrology Indicators:	that and A				/ Indicators (minim	
Primary Indicators (minimum of one is required; check all Surface Water (A1)	· · · · ·	nd Laguas (BO	١	—	ace Soil Cracks (B6)	
High Water Table (A2)	Water Staine Aquatic Faun	•)		nage Patterns (B10 s Trim Lines (B16)	,
Saturation (A3)	Marl Deposit	. ,			Season Water Tabl	e (C2)
Water Marks (B1)	Hydrogen Su	lfide Odor (C	1)	Cray	fish Burrows (C8)	
Sediment Deposits (B2)	Oxidized Rhiz	-	_		ration Visible on A	` ,
Drift Deposits (B3)	Presence of F		-		ted or Stressed Pla	` '
Algal Mat or Crust (B4) Iron Deposits (B5)	Recent Iron F Thin Muck Su		Tilled Soils (C	· =	morphic Position ([low Aquitard (D3)	J2)
Inundation Visible on Aerial Imagery (B7)	Other (Explai		:)		otopographic Relie	of (D4)
Sparsely Vegetated Concave Surface (B8)] other (zwpia)		,		Neutral Test (D5)	(2 .)
Field Observations:						
Surface Water Present? Yes No Depth (inch	ies):					
Water Table Present? Yes No Depth (inch					🗆 🗆	1
Saturation Present? Yes No Depth (inch	es):		Wetlan	d Hydrology Present?	Yes No 🗸	
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, a	aerial nhotos n	revious inspe	ections) if a	vailable:		
Describe necorded bata (stream gauge, momening wen,	zeriai pilotos, p	nevious mape	2001137, 11 0	randore.		
Remarks:						
VEGETATION - Use Scientific Names of Plants.						
	Absolute	Dominant		Dominance Test worksh		
Tree Stratum (Plot size: 20' radius)	% Cover	Species?		Number of Dominant Sp		(4)
1 Quercus rubra 2 Tsuga canadensis	50 10	Yes No	FACU FACU	That Are OBL, FACW, or	FAC: 0) (A)
3 Acer rubrum	8	No	FAC	Total Number of Domin	ant	
4 Quercus alba	5	No	FACU	Species Across All Strata		B (B)
5						
6				Percent of Dominant Sp	ecies	
7				That Are OBL, FACW, or	FAC: 09	% (A/B)
(50%/20% = 37 / 15)	73 =	Total Cover		Prevalence Index works		
Sapling/Shrub Stratum (Plot size: 15' radius) 1 Pinus strobus	2	No	FACU	Total % Cover of:		ultiply by:
2		140	TACO	OBL species	x 1	artiply by.
3				FACW species	x 2	
4				FAC species	x 3	
5				FACU species	x 4	
6				UPL Species	x 5	(D)
(50%/20% = 1 / 0.4)	2 =	Total Cover		Column Totals: Prevalence Index =	(A) = B/A =	(B)
1		. 5		valence mack -	-,	



Vegetation (continued) Indicator **Hydrophytic Vegetation Indicators:** Absolute **Dominant** Herb Stratum (Plot size: 5' radius) % Cover Species? Status Rapid Test for Hydrophytic Vegetation Dominance test is >50% 1 Vaccinium angustifolium 3 Yes **FACU** Prevalence Index is $\leq 3.0^{\circ}$ 2 Polystichum acrostichoides Yes **FACU** Morphological Adaptations¹ (Provide Supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain) ¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. (50%/20% = 2.5 / **Total Cover Definitions of Vegetation Strata:** Tree: Woody plants 3 in. (7.6cm) or more in diameter Woody Vine Stratum (Plot size: 5' radius) 1 NONE at breast height (DBH), regardless of height. Sapling/shrub: Woody plants less than 3 in. DBH and greater than 3.28 ft (1m) tall. Herb: All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody Vines: All woody vines greater than 3.28 ft in height (50%/20% = 0 = Total Cover **Hydrophytic Vegetation Present?** No ✓ 0 / Remarks: (Include photo numbers here or on a separate sheet.) FAC Neutral: No. A stratum with less than 5 percent total cover is not considered in the dominance test, unless it is the only stratum present. SOIL Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Matrix **Redox Features** (inches) Color (moist) % Color (moist) % Type¹ Loc² Texture Remarks 0 - 8 10YR 5/4 100 Silt loam Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: Indicators for Problematic Hydric Soils³: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) (LRR K, L) Dark Surface (S7) (LRR K, L) Polyvalue Below Surface (S8) (LRR K, L) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Redox Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L, R) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TX6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) 5 Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: rock gravel **Hydric Soil Present?** Yes No 🗸 Depth (inches): 0 Remarks:



Project/Site: Lincoln Park Grid Support Center	City/C	County: Town	of Ulster, Uls	ster County	Sampling D	ate: <u>12</u>	/11/2018
Applicant/Owner: Lincoln Park DG, LLC				State: NY	Sampling Po	oint:	C-16-W
Investigator(s): David MacDougall		Section,	Township, Ra	ange: N/A			
Landform (hillslope, terrace, etc.):	Local R	elief (concave	, convex, no	ne): concave		Slope 9	%: 1
Stepregistrom(LRR or MLRA): LRR R Latitude	: 41 !	57'49.10'' ° N	Longitud	le: -73 5	8'32.84'' ° W	Datum:	WGS 84
Soil Map Unit Name: Nassau Bath Rock Outcrop Compl	ex, very steep	o (NBF)		NWI C	lassification: F	PFO	
Are climatic/hydrologic conditions on the site typical for the	nis time of ye	ar? Ye	es 🗸 No 🛭	(If no, explain in F	Remarks.)		
Are Vegetation , Soil , or hydrology significantly	disturbed?	Are	"Normal Cir	 cumstances" present? \	Yes ✓ No]	
Are Vegetation, Soil, or hydrology naturally pro	oblematic?	(If r	eeded, expl	ain any answers in rema	arks.)		
CUMANAA DV OF FINDINGS Attack site was also		line e e e in t			- 		
SUMMARY OF FINDINGS - Attach site map sho	wing samp					1	
Hydrophytic Vegetation Present? Yes V No		is the Sai	mpled Area	within a Wetland? Y	'es ☑ No _]	
Hydric Soil Present? Yes ✓ No ☐							
Wetland Hydrology Present? Yes 🗸 No 🔝			tional Wetla	nd Site ID: C			
Remarks: (Explain alternative procedures here or in a sepa	rate report.)						
LIVEROLOGY							
HYDROLOGY Wetland Hydrology Indicators:				Cocondar	u Indicators (mi	nimum	of 2)
Primary Indicators (minimum of one is required; check all	that apply)				y Indicators (mi face Soil Cracks (01 2)
✓ Surface Water (A1)		ned Leaves (B9))	=	inage Patterns (
High Water Table (A2)	Aquatic Fau	•	•		ss Trim Lines (B1	,	
✓ Saturation (A3)	Marl Depos			Dry-	-Season Water T	able (C	2)
Water Marks (B1)		Julfide Odor (C	•		yfish Burrows (C		
Sediment Deposits (B2)	i	nizospheres or	_		uration Visible o		` ,
Drift Deposits (B3) Algal Mat or Crust (B4)	i	f Reduced Iror Reduction in	-	=	nted or Stressed Imorphic Positio		(D1)
Iron Deposits (B5)	i	Surface (C7)	Tilled Jolis (. =	llow Aquitard (D		
Inundation Visible on Aerial Imagery (B7)	i	ain in Remark	s)	=	rotopographic R		4)
Sparsely Vegetated Concave Surface (B8)				✓ FAC	-Neutral Test (D	5)	
Field Observations:							
Surface Water Present? Yes V No Depth (inch	· ·						
Water Table Present? Yes ✓ No Depth (inches			347.11.	du dada Barra	Y		
Saturation Present? Yes V No Depth (inche (includes capillary fringe)	es): 0		wetian	d Hydrology Present?	Yes ✓ No		
Describe Recorded Data (stream gauge, monitoring well, a	erial photos,	previous insp	ections), if a	vailable:			
	, ,		,,				
Remarks:							
VEGETATION - Use Scientific Names of Plants.	Alexal II	D	L. P. L.	5			1
Tree Stratum (Plot size: 20' radius)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test works Number of Dominant S			
1 Acer rubrum	30	Yes	FAC	That Are OBL, FACW, o	•	3	(A)
2 Quercus rubra	10	Yes	FACU	, .			(* ')
3				Total Number of Domi	nant		
4				Species Across All Strat	:a:	4	(B)
5							
6				Percent of Dominant S	•	750/	(A (D)
7 (50%/20% = 20 / 8)	40	= Total Cover		That Are OBL, FACW, o	r FAC:	75%	(A/B)
Sapling/Shrub Stratum (Plot size: 15' radius)	40	- Total Cover		Prevalence Index work	sheet:		
1 Carpinus caroliniana	10	Yes	FAC	Total % Cover of:		Multip	oly by:
2				OBL species	x 1		
3				FACW species	x 2		
4				FAC species	x 3		
5				FACU species UPL Species	x 4		
6				Column Totals:	x 5 (A)		(B)
(50%/20% = 5 / 2)	10	Total Cover		Prevalence Index			



Vegetation (continued) Absolute Indicator **Hydrophytic Vegetation Indicators: Dominant** Herb Stratum (Plot size: 5' radius) % Cover Species? Status Rapid Test for Hydrophytic Vegetation OBL Dominance test is >50% 1 Glyceria striata 10 Yes Prevalence Index is $\leq 3.0^{\circ}$ Morphological Adaptations¹ (Provide Supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain) ¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. (50%/20% = **Total Cover Definitions of Vegetation Strata:** Tree: Woody plants 3 in. (7.6cm) or more in diameter Woody Vine Stratum (Plot size: 5' radius) 1 NONE at breast height (DBH), regardless of height. Sapling/shrub: Woody plants less than 3 in. DBH and greater than 3.28 ft (1m) tall. Herb: All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody Vines: All woody vines greater than 3.28 ft in height (50%/20% = 0 = Total Cover **Hydrophytic Vegetation Present?** No 0 / Yes Remarks: (Include photo numbers here or on a separate sheet.) FAC Neutral: Yes. SOIL Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Matrix **Redox Features** (inches) Color (moist) % Color (moist) Type¹ Loc2 Texture Remarks % Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: Indicators for Problematic Hydric Soils³: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) (LRR K, L) Dark Surface (S7) (LRR K, L) Polyvalue Below Surface (S8) (LRR K, L) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Redox Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L, R) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TX6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) 5 Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: NONE **Hydric Soil Present?** Yes 🗸 No Depth (inches): Remarks: Soils were frozen, a large portion of this wetland was inundated to a depth of several inches. Hydric soils can be assumed to be present.



Project/Site: Lincoln Park Grid Support Center	City/Co	ounty: Town	of Ulster, Uls	ter County	Sampling Date: 12	/11/2018
Applicant/Owner: Lincoln Park DG, LLC				State: NY	Sampling Point:	C-16-Up
Investigator(s): David MacDougall		Section,	Township, Ra	ange: N/A		
Landform (hillslope, terrace, etc.): hillslope	Local Re	elief (concave,	, convex, nor		Slope 9	%: 3
Subregion (LRR or MLRA): LRR R Latitude	:	41 ° N	Longitud	e:	-73. °W Datum:	WGS 84
Soil Map Unit Name: Nassau Bath Rock Outcrop Comple		(NBF)	_	NWI CI	assification: None	
Are climatic/hydrologic conditions on the site typical for the			es 🗸 No	(If no, explain in R		
Are Vegetation , Soil , or hydrology significantly	•			cumstances" present? Y		
Are Vegetation , Soil , or hydrology naturally pro				ain any answers in rema	_ _	
				•	•	
SUMMARY OF FINDINGS - Attach site map sho	wing samp	ling point l	ocations, t	ransects, importan	nt features, etc.	
Hydrophytic Vegetation Present? Yes No 🗸		Is the Sar	mpled Area v	within a Wetland? Yo	es No 🗸	
Hydric Soil Present? Yes No 🗸						
Wetland Hydrology Present? Yes No 🗸		If yes, op	tional Wetla	nd Site ID:		
Remarks: (Explain alternative procedures here or in a sepa	rate report.)					
Upland area adjacent to Wetland C.						
HYDROLOGY						
Wetland Hydrology Indicators:				Secondary	y Indicators (minimum	of 2)
Primary Indicators (minimum of one is required; check all	that apply)			Surfa	ace Soil Cracks (B6)	
Surface Water (A1)	7	ed Leaves (B9))		nage Patterns (B10)	
High Water Table (A2)	Aquatic Fau				ss Trim Lines (B16)	
Saturation (A3)	Marl Deposi		·4\		Season Water Table (Carrier Rurrows (CS)	2)
Water Marks (B1) Sediment Deposits (B2)	i -	ulfide Odor (C izospheres on			rfish Burrows (C8) Iration Visible on Aerial	(Ca)
Drift Deposits (B3)	7	Reduced Iron	_		nted or Stressed Plants	. ,
Algal Mat or Crust (B4)	ī	Reduction in	-		morphic Position (D2)	(=-,
Iron Deposits (B5)	Thin Muck S				low Aquitard (D3)	
Inundation Visible on Aerial Imagery (B7)	Other (Expla	ain in Remarks	s)	Micr	rotopographic Relief (D	4)
Sparsely Vegetated Concave Surface (B8)				FAC-	-Neutral Test (D5)	
Field Observations:						
Surface Water Present? Yes No Depth (inche	es):					
	es):		Motlane	d Hydrology Present?	Yes No 🗸	
Saturation Present? Yes No Depth (inche (includes capillary fringe)	es):		Wetiani	3 Hydrology Present:	Yes No 🔨	
Describe Recorded Data (stream gauge, monitoring well, a	erial photos,	previous insp	ections), if av	vailable:		
, , , ,	•		.,			
Remarks:	_	_	_	_		_
VEGETATION - Use Scientific Names of Plants.						
	Absolute	Dominant		Dominance Test works		
Tree Stratum (Plot size: 20' radius)	% Cover	Species?		Number of Dominant S	•	(.)
1 Quercus rubra	50	Yes		That Are OBL, FACW, or	r FAC: 0	(A)
2 Tsuga canadensis 3 Acer rubrum	<u>10</u> 8	No No	FACU FAC	Total Number of Domin	+	
4 Quercus alba	8 5	No No		Species Across All Strata		(B)
5		140	IACO	species moross mis su au	a	
6			-	Percent of Dominant Sp	pecies	
7				That Are OBL, FACW, or	r FAC: 0%	(A/B)
(50%/20% = 37 / 15)	73 =	Total Cover		_		
Sapling/Shrub Stratum (Plot size: 15' radius)				Prevalence Index works		_
1 Pinus strobus	2	No	FACU	Total % Cover of:	Multip	oly by:
2				OBL species	x 1	
3				FAC species	x 2	
5				FAC species FACU species	x 3 x 4	
6						
				LIPI Species	x 5	
7				UPL Species Column Totals:	x 5	(B)



	Absolute	Dominant	Indicator	Hydrophytic Vegetation Indicators:
Herb Stratum (Plot size: 5' radius)	% Cover		Status	Rapid Test for Hydrophytic Vegetation
1 Vaccinium angustifolium	3	Yes	FACU	Dominance test is >50%
2 Polystichum acrostichoides		Yes	FACU	Prevalence Index is ≤3.0 ¹
3		103	17100	Morphological Adaptations ¹ (Provide Supporting
4				data in Remarks or on a separate sheet)
5				Problematic Hydrophytic Vegetation ¹ (Explain)
6	_			Indicators of hydric soil and wetland hydrology must
6	_			be present, unless disturbed or problematic.
(50%/20% = 2.5 / 1)	5	= Total Cover		Definitions of Vegetation Strata:
Woody Vine Stratum (Plot size: 5' radius)		_ = 10tal covel		Tree: Woody plants 3 in. (7.6cm) or more in diameter
1 NONE				at breast height (DBH), regardless of height.
2	_			Sapling/shrub: Woody plants less than 3 in. DBH
3				and greater than 3.28 ft (1m) tall.
4	_			Herb: All herbaceous (non-woody) plants, regardless
5	_			of size, and woody plants less than 3.28 ft tall.
6	_			Woody Vines: All woody vines greater than 3.28 ft in
7	_			height.
(50%/20% = 0 / 0)		= Total Cover		Hydrophytic Vegetation Present? Yes No
Remarks: (Include photo numbers here or on a separat		_ = 10tal covel		nydrophytic vegetation Present: Yes No
A stratum with less than 5 percent total cover is not co SOIL Profile Description: (Describe to the depth needed to o				
Depth Matrix	Redox Featur			
(inches) Color (moist) % Color (moist)		Type ¹ Loc ²	_ Texti	ure Remarks
0 - 8 10YR 5/4 100		.,,,,	Silt loar	
			5.11.104.1	··
Type: C=Concentration, D=Depletion, RM=Reduced Ma	atrix, CS=Cove	red or Coated Sa	nd Grains.	² Location: PL=Pore Lining, M=Matrix.
Type: C=Concentration, D=Depletion, RM=Reduced Ma	atrix, CS=Cove	red or Coated Sa	nd Grains.	² Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils ³ :
Hydric Soil Indicators:				Indicators for Problematic Hydric Soils ³ :
Hydric Soil Indicators: Histosol (A1)	Polyvalue Belo	w Surface (S8) (L		
Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2)	Polyvalue Belo MLRA 149B)	w Surface (S8) (L	RR R,	Indicators for Problematic Hydric Soils ³ : 2 cm Muck (A10) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R)
Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3)	Polyvalue Belo MLRA 149B Thin Dark Surfa	w Surface (S8) (L	RR R, VILRA 149B)	Indicators for Problematic Hydric Soils ³ : 2 cm Muck (A10) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R)
Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4)	Polyvalue Belo MLRA 149B Thin Dark Surfa	w Surface (S8) (L) ace (S9) (LRR R, I Mineral (F1) (LRF	RR R, VILRA 149B)	Indicators for Problematic Hydric Soils ³ : 2 cm Muck (A10) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5)	Polyvalue Belo MLRA 149B Thin Dark Surfa Loamy Mucky I	w Surface (S8) (L) ace (S9) (LRR R, N Mineral (F1) (LRR Matrix (F2)	RR R, VILRA 149B)	Indicators for Problematic Hydric Soils ³ : 2 cm Muck (A10) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Dark Surface (S7) (LRR K, L)
Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A11)	Polyvalue Belo MLRA 149B Thin Dark Surfa Loamy Mucky I Loamy Gleyed	w Surface (S8) (L ace (S9) (LRR R, I Mineral (F1) (LRF Matrix (F2) ix (F3)	RR R, VILRA 149B)	Indicators for Problematic Hydric Soils ³ : 2 cm Muck (A10) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Dark Surface (S7) (LRR K, L) Polyvalue Below Surface (S8) (LRR K, L)
Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thick Dark Surface (A12)	Polyvalue Belo MLRA 149B Thin Dark Surfa Loamy Mucky I Loamy Gleyed Depleted Matr	w Surface (S8) (L) ace (S9) (LRR R, M Mineral (F1) (LRM Matrix (F2) ix (F3) rface (F6)	RR R, VILRA 149B)	Indicators for Problematic Hydric Soils ³ : 2 cm Muck (A10) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Dark Surface (S7) (LRR K, L) Polyvalue Below Surface (S8) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L, R)
Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1)	Polyvalue Belo MLRA 149B Thin Dark Surfa Loamy Mucky I Loamy Gleyed Depleted Matr Redox Dark Su	w Surface (S8) (L) ace (S9) (LRR R, I Mineral (F1) (LRF Matrix (F2) ix (F3) rface (F6) Surface (F7)	RR R, VILRA 149B)	Indicators for Problematic Hydric Soils ³ : 2 cm Muck (A10) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Dark Surface (S7) (LRR K, L) Polyvalue Below Surface (S8) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L, R)
Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1)	Polyvalue Belo MLRA 149B, Thin Dark Surfa Loamy Mucky I Loamy Gleyed Depleted Matr Redox Dark Sur Depleted Dark	w Surface (S8) (L) ace (S9) (LRR R, I Mineral (F1) (LRF Matrix (F2) ix (F3) rface (F6) Surface (F7)	RR R, VILRA 149B)	Indicators for Problematic Hydric Soils ³ : 2 cm Muck (A10) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Dark Surface (S7) (LRR K, L) Polyvalue Below Surface (S8) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B)
Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4)	Polyvalue Belo MLRA 149B, Thin Dark Surfa Loamy Mucky I Loamy Gleyed Depleted Matr Redox Dark Sur Depleted Dark	w Surface (S8) (L) ace (S9) (LRR R, I Mineral (F1) (LRF Matrix (F2) ix (F3) rface (F6) Surface (F7)	RR R, VILRA 149B)	Indicators for Problematic Hydric Soils ³ : 2 cm Muck (A10) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Dark Surface (S7) (LRR K, L) Polyvalue Below Surface (S8) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Mesic Spodic (TX6) (MLRA 144A, 145, 149B)
Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Redox (S5)	Polyvalue Belo MLRA 149B, Thin Dark Surfa Loamy Mucky I Loamy Gleyed Depleted Matr Redox Dark Sur Depleted Dark	w Surface (S8) (L) ace (S9) (LRR R, I Mineral (F1) (LRF Matrix (F2) ix (F3) rface (F6) Surface (F7)	RR R, VILRA 149B)	Indicators for Problematic Hydric Soils ³ : 2 cm Muck (A10) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Dark Surface (S7) (LRR K, L) Polyvalue Below Surface (S8) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Mesic Spodic (TX6) (MLRA 144A, 145, 149B) Red Parent Material (F21)
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Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Indicators of hydrophytic vegetation and wetland hydrometric series are series.	Polyvalue Belo MLRA 149B Thin Dark Surfa Loamy Mucky I Loamy Gleyed Depleted Matr Redox Dark Sur Depleted Dark Redox Depress	w Surface (S8) (L) ace (S9) (LRR R, I Mineral (F1) (LRI Matrix (F2) ix (F3) rface (F6) Surface (F7) ions (F8)	RR R, VILRA 149B) R K, L)	Indicators for Problematic Hydric Soils ³ : 2 cm Muck (A10) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Dark Surface (S7) (LRR K, L) Polyvalue Below Surface (S8) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Mesic Spodic (TX6) (MLRA 144A, 145, 149B) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Other (Explain in Remarks)
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Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Indicators of hydrophytic vegetation and wetland hydromatic stripper of the section of t	Polyvalue Belo MLRA 149B Thin Dark Surfa Loamy Mucky I Loamy Gleyed Depleted Matr Redox Dark Sur Depleted Dark Redox Depress	w Surface (S8) (L) ace (S9) (LRR R, I Mineral (F1) (LRI Matrix (F2) ix (F3) rface (F6) Surface (F7) ions (F8)	RR R, VILRA 149B) R K, L)	Indicators for Problematic Hydric Soils ³ : 2 cm Muck (A10) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Dark Surface (S7) (LRR K, L) Polyvalue Below Surface (S8) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Mesic Spodic (TX6) (MLRA 144A, 145, 149B) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Other (Explain in Remarks)
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Project/Site: Lincoln Park Grid Support Center	City/Co	ounty: Town	of Ulster, Uls	ter County	Sampling D)ate: <u>12</u>	/11/2018
Applicant/Owner: Lincoln Park DG, LLC				State: NY	Sampling P	oint:	D-14-W
Investigator(s): David MacDougall		Section, 7	Γownship, Ra	nge: N/A			
Landform (hillslope, terrace, etc.): depression	Local Re	elief (concave	, convex, nor	ne): concave	!	Slope 9	%: 2
Subregion (LRR or MLRA): LRR R Latitude	 e: 41.5	57′51.20′′ ° N	Longitud	e: -73 !	58'30.59'' ° W	Datum:	WGS 84
Soil Map Unit Name: Bath Nassau Rock Outcrop (BOD)			_	NWI C	Classification:	PFO	
Are climatic/hydrologic conditions on the site typical for t	his time of yea	ar? Ye	es 🗸 No	(If no, explain in	Remarks.)		
Are Vegetation , Soil , or hydrology significantly	•		"Normal Circ	cumstances" present?	Yes 🗸 No	7	
Are Vegetation , Soil , or hydrology naturally pr				ain any answers in rem		_	
			•	•			
SUMMARY OF FINDINGS - Attach site map sho	wing samp						
Hydrophytic Vegetation Present? Yes V No		Is the Sar	mpled Area v	vithin a Wetland?	res ☑ No ☐	J	
Hydric Soil Present? Yes V No							
Wetland Hydrology Present? Yes 🗸 No 📗		If yes, op	tional Wetla	nd Site ID: D			
Remarks: (Explain alternative procedures here or in a sep-	arate report.)						
HYDROLOGY				Consider			- f 2)
Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all	that annly)				ry Indicators (m face Soil Cracks		or 2)
Surface Water (A1)	1	ed Leaves (B9))	=	inage Patterns		
✓ High Water Table (A2)	Aquatic Fau	,	,		ss Trim Lines (B	` '	
Saturation (A3)	Marl Depos	its (B15)		Dry	-Season Water	Table (C	2)
Water Marks (B1)	≓ ′ °	ulfide Odor (C	•	=	yfish Burrows (0	28)	
Sediment Deposits (B2)	=	izospheres on	_		uration Visible o		` '
Drift Deposits (B3)	╡	Reduced Iron	-	=	nted or Stressed		(D1)
Algal Mat or Crust (B4) Iron Deposits (B5)	Thin Muck S	Reduction in	Tillea Solis (C		omorphic Position Illow Aquitard (I		
Inundation Visible on Aerial Imagery (B7)	╡	ain in Remarks	s)	=	crotopographic I		4)
Sparsely Vegetated Concave Surface (B8)	(,		C-Neutral Test (-	,
Field Observations:							
Surface Water Present? Yes No Depth (inch	es):						
Water Table Present? Yes V No Depth (inch							
Saturation Present? Yes V No Depth (inch	ies): 1		Wetland	d Hydrology Present?	Yes 🗸 No	' Ш	
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well,	aerial photos	nrevious inspe	ections), if av	railable:			
Second new sate (or cam gauge, moments new)	p	p. c 1. c us s p.		and a let			
Remarks:							
VEGETATION - Use Scientific Names of Plants.							
	Absolute	Dominant		Dominance Test work			
Tree Stratum (Plot size: 20' radius) 1 Acer rubrum	% Cover 20	Species?		Number of Dominant S	•	_	(4)
2 Fraxinus pennsylvanica	10	Yes	FACW	That Are OBL, FACW, o	FAC:	5	(A)
3		163		Total Number of Domi	nant		
4				Species Across All Stra	ta:	5	(B)
5							<u></u>
6				Percent of Dominant S	•		
7		T-1-1-C-		That Are OBL, FACW, o	r FAC:	100%	(A/B)
(50%/20% = 15 / 6) Sapling/Shrub Stratum (Plot size: 15' radius)	30 =	Total Cover		Prevalence Index worl	kshoot:		
1 Carpinus caroliniana (Flot size. 13 Taulus)	30	Yes	FAC	Total % Cover of:	isileet.	Multip	olv bv:
2 Acer rubrum	5	No		OBL species	x 1	•	, ~,.
3				FACW species	x 2		
4				FAC species	x 3		
5				FACU species	x 4		
6				UPL Species Column Totals:	x 5	·	(D)
(50%/20% = 18 / 7)	35 =	Total Cover		Prevalence Index	(A) (= B/A =		(B)
					-,··		



	Absolute	Dominant	Indicator	Hydrophytic Vegetation Indicators:
Herb Stratum (Plot size: _ 5' radius)	% Cover	Species?	Status	Rapid Test for Hydrophytic Vegetation
1 Spiraea alba	20	Yes	FACW	Dominance test is >50%
2 Onoclea sensibilis	5	No	FACW	Prevalence Index is ≤3.0 ¹
3 Cornus amomum	10	Yes	FACW	Morphological Adaptations ¹ (Provide Supporting
4				data in Remarks or on a separate sheet)
5				Problematic Hydrophytic Vegetation ¹ (Explain)
6				¹ Indicators of hydric soil and wetland hydrology must
7				be present, unless disturbed or problematic.
(50%/20% = 18 / 7)	35	= Total Cover		Definitions of Vegetation Strata:
Noody Vine Stratum (Plot size: 5' radius)				Tree: Woody plants 3 in. (7.6cm) or more in diameter
1 None				at breast height (DBH), regardless of height.
2				Sapling/shrub: Woody plants less than 3 in. DBH
3				and greater than 3.28 ft (1m) tall.
4 5				Herb: All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
5 6				Woody Vines: All woody vines greater than 3.28 ft in
0				height.
(50%/20% = 0 / 0)		= Total Cover		Hydrophytic Vegetation Present? Yes V No
Remarks: (Include photo numbers here or on a separa				Trydrophlytic vegetation resent.
SOIL (David Land Land Land Land Land Land Land Lan	de de la companya de		· · · · · ·	
Profile Description: (Describe to the depth needed to			firm the abs	ence of indicators.)
Depth Matrix	Redox Featur	1 2		Domovi-
(inches) Color (moist) % Color (moist	<u> </u>	~ —	Text	
0-12 10 YR 4/1 95 10 YR 4/6		<u>C</u> <u>M</u>	Silty cla	y loain
				
				
				
Type: C=Concentration, D=Depletion, RM=Reduced M	atrix, CS=Cove	red or Coated Sa	nd Grains.	² Location: PL=Pore Lining, M=Matrix.
lydric Soil Indicators:				Indicators for Problematic Hydric Soils ³ :
		- 6 () (-		
	Polyvalue Belo	w Surface (S8) (L	RR R,	2 cm Muck (A10) (LRR K, L, MLRA 149B)
	Polyvalue Belo MLRA 149B)		RR R,	2 cm Muck (A10) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R)
Histosol (A1) Histic Epipedon (A2)	MLRA 149B)			Coast Prairie Redox (A16) (LRR K, L, R)
Histosol (A1) Histic Epipedon (A2) Black Histic (A3)	MLRA 149B) Thin Dark Surfa)	MLRA 149B)	Coast Prairie Redox (A16) (LRR K, L, R)
Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4)	MLRA 149B) Thin Dark Surfa) ace (S9) (LRR R, I Mineral (F1) (LRF	MLRA 149B)	Coast Prairie Redox (A16) (LRR K, L, R) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5)	MLRA 149B) Thin Dark Surfa Loamy Mucky I) ace (S9) (LRR R, I Mineral (F1) (LRF Matrix (F2)	MLRA 149B)	Coast Prairie Redox (A16) (LRR K, L, R) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Dark Surface (S7) (LRR K, L)
Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A11)	MLRA 149B) Thin Dark Surfa Loamy Mucky I Loamy Gleyed) ace (S9) (LRR R, I Mineral (F1) (LRF Matrix (F2) ix (F3)	MLRA 149B)	Coast Prairie Redox (A16) (LRR K, L, R) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Dark Surface (S7) (LRR K, L) Polyvalue Below Surface (S8) (LRR K, L)
Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thick Dark Surface (A12)	MLRA 149B) Thin Dark Surfa Loamy Mucky I Loamy Gleyed Depleted Matr) ace (S9) (LRR R, N Mineral (F1) (LRN Matrix (F2) ix (F3) rface (F6)	MLRA 149B)	Coast Prairie Redox (A16) (LRR K, L, R) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Dark Surface (S7) (LRR K, L) Polyvalue Below Surface (S8) (LRR K, L) Thin Dark Surface (S9) (LRR K, L)
Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1)	MLRA 149B) Thin Dark Surfa Loamy Mucky I Loamy Gleyed Depleted Matr Redox Dark Sur) ace (S9) (LRR R, I Mineral (F1) (LRF Matrix (F2) ix (F3) rface (F6) Surface (F7)	MLRA 149B)	Coast Prairie Redox (A16) (LRR K, L, R) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Dark Surface (S7) (LRR K, L) Polyvalue Below Surface (S8) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L, R)
Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1)	MLRA 149B) Thin Dark Surfa Loamy Mucky I Loamy Gleyed Depleted Matr Redox Dark Sur Depleted Dark) ace (S9) (LRR R, I Mineral (F1) (LRF Matrix (F2) ix (F3) rface (F6) Surface (F7)	MLRA 149B)	Coast Prairie Redox (A16) (LRR K, L, R) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Dark Surface (S7) (LRR K, L) Polyvalue Below Surface (S8) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 1498)
Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6)	MLRA 149B) Thin Dark Surfa Loamy Mucky I Loamy Gleyed Depleted Matr Redox Dark Sur Depleted Dark) ace (S9) (LRR R, I Mineral (F1) (LRF Matrix (F2) ix (F3) rface (F6) Surface (F7)	MLRA 149B)	Coast Prairie Redox (A16) (LRR K, L, R) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Dark Surface (S7) (LRR K, L) Polyvalue Below Surface (S8) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Mesic Spodic (TX6) (MLRA 144A, 145, 149B) Red Parent Material (F21) Very Shallow Dark Surface (TF12)
Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5)	MLRA 149B) Thin Dark Surfa Loamy Mucky I Loamy Gleyed Depleted Matr Redox Dark Sur Depleted Dark) ace (S9) (LRR R, I Mineral (F1) (LRF Matrix (F2) ix (F3) rface (F6) Surface (F7)	MLRA 149B)	Coast Prairie Redox (A16) (LRR K, L, R) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Dark Surface (S7) (LRR K, L) Polyvalue Below Surface (S8) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Mesic Spodic (TX6) (MLRA 144A, 145, 149B) Red Parent Material (F21)
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Project/Site: Lincoln Park Grid Support Center	City/Co	ounty: Town	of Ulster, Uls	ster County Sampling Date: 12/11/2018
Applicant/Owner: Lincoln Park DG, LLC				State: NY Sampling Point: D-9-Up
Investigator(s): David MacDougall		Section,	Township, Ra	ange: N/A
Landform (hillslope, terrace, etc.): terrace	Local Re	elief (concave	e, convex, no	one): none Slope %: 5
Subregion (LRR or MLRA): LRR R Latitude:		41 ° N	Longitud	de: -73. ° W Datum: WGS 84
Soil Map Unit Name: Bath Nassau Rock Outcrop (BOD)			_	NWI Classification: None
Are climatic/hydrologic conditions on the site typical for this	s time of yea	ar? Y	es 🗸 No 🛚	(If no, explain in Remarks.)
Are Vegetation , Soil , or hydrology significantly d	listurbed?	Are	 e "Normal Cir	rcumstances" present? Yes
Are Vegetation , Soil , or hydrology naturally prob				lain any answers in remarks.)
			-	
SUMMARY OF FINDINGS - Attach site map show	/Ing sampi			
Hydrophytic Vegetation Present? Yes No		IS the Sa	mpiea Area	within a Wetland? Yes No V
Hydric Soil Present? Yes No		رو		100 10
Wetland Hydrology Present? Yes No 🗸		It yes, op	otional Wetla	and Site ID:
Remarks: (Explain alternative procedures here or in a separa Upland area between Wetlands D and E.	ate report.)			
opianu area between wenanus b and L.				
HYDROLOGY				
Wetland Hydrology Indicators:				Secondary Indicators (minimum of 2)
Primary Indicators (minimum of one is required; check all th	nat apply)			Surface Soil Cracks (B6)
		ed Leaves (B	∍)	Drainage Patterns (B10)
	Aquatic Faur			Moss Trim Lines (B16)
	Marl Deposi	its (B15) ulfide Odor (C	~1\	Dry-Season Water Table (C2) Crayfish Burrows (C8)
		izospheres or		
		Reduced Iron	_	Stunted or Stressed Plants (D1)
		Reduction in		
Iron Deposits (B5)	Thin Muck S	urface (C7)		Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7)	Other (Expla	ain in Remark	:s)	Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8)		-		FAC-Neutral Test (D5)
Field Observations: Surface Water Present? Yes No Depth (inches	-1.			
Water Table Present? Yes No Depth (inches	s):			
Saturation Present? Yes No Depth (inches	s):		Wetlan	nd Hydrology Present? Yes No 🗸
(includes capillary fringe)				
Describe Recorded Data (stream gauge, monitoring well, ae	rial photos, p	previous insp	ections), if a	vailable:
Remarks:				
VEGETATION - Use Scientific Names of Plants.				
	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 20' radius)	% Cover	Species?	Status	Number of Dominant Species
1 Pinus strobus	8	Yes	FACU	That Are OBL, FACW, or FAC: 0 (A)
2 Acer saccharum 3 Tsuga canadensis	25 8	Yes No	FACU FACU	Total Number of Dominant
3 Isuga canaaensis 4		INU	FACU	Species Across All Strata: 3 (B)
5		-		
6				Percent of Dominant Species
7				That Are OBL, FACW, or FAC: 0% (A/B)
(50%/20% = 21 / 8.2)	41 =	: Total Cover		
Sapling/Shrub Stratum (Plot size: 15' radius) 1 Pinus strobus	5	Yes	FACU	Prevalence Index worksheet: Total % Cover of: Multiply by:
1 Pinus strobus 2		165	FACO	Total % Cover of: Multiply by: OBL species x 1
3				FACW species x 2
4				FAC species x 3
5				FACU species x 4
6				UPL Species x 5
7 (50%/20% = 2.5 / 1)		Total Cover		Column Totals: (A) (B) Prevalence Index = B/A =
1 (50%/70% = 7.5.7.1.1)	5 =	: Total Cover		Prevalence index = B/A =



Herb Stratum Plot size: S' radius		Absolute	Dominant	Indicator	Hydrophytic Vegetation Indicators:
1 MONE 2 2 3 3 4 4 5 5 5 7 7 8 7 8 8 8 8 9 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1	Herb Stratum (Plot size: 5' radius)				
Morphological Agostations? (Provide Supporting data in Remarks or on a separate sheet). Problematic Hydrophytic Vegetation (Explain)					
Morphological Agaptations? (Provide Supporting data in Remarks or on a separate heat) Problematic Hydrophytic Vegetation (Explain)				-	. .
data in Remarks or on a separate sheet! data in Remarks or on a separate sheet					1
Problematic Hydrophytic Vegetation (Explain)	4			-	
Indicators of hydric soil and wetband hydrology must be present, unless disturbed or problematic.	· 5			-	
Depresent, unless disturbed or problematic.					1,
Definitions of Vegetation Strata: Voody Vines Statum (Plot size: 5' radius)				-	,
Tree: Woody plants 3 in. (7,6cm) or more in diameter at breast height (DBH), regardless of height. Supling/shrub: Woody plants less than 3 in. DBH and greater than 3.28 ft (Im) tall.	·	<u> </u>			
at breast height (DBH), regardless of height. Sapling/shrub: Woody plants less than 3 in. DBH and greater than 3.2 8 ft (am) tall. Herb: All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft (all) tall. Woody Vines: All woody vines greater than 3.28 ft (all) tall. Woody Vines: All woody vines greater than 3.28 ft (all) tall. Herbaceous layer is absent in this area. AC Neutral: No. SOIL Troffile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Matrix Redox Features (Inches) Color (moist) % Color (moist) % Type Loc Sit loam Polyvalue Below Surface (S9) (LRR R, MLRA 1498) Black Histic (A3) Dhark Surface (A11) Depleted Matrix (F3) Depth Matrix (F3) Depth Multa (A4) Loamy Mucky Mineral (F1) (LRR K, L) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Polyvalue Below Surface (F7) Piedmont Floodplain Soils (F19) (MLRR A, L8, R) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Piedmont Floodplain Soils (F19) (MLRR A, L98) Mesic Spoid; (TKR K, L) Polyvalue Matrix (F3) Piedmont Floodplain Soils (F19) (MLRR A, L98) Mesic Spoid; (TKR K, L) Piedmont Floodplain Soils (F19) (MLRR A, L98) Mesic Spoid; (TKR) (MLRR A, L48, L48) Mesic Spoid; (TKR) (MLRR A, L48, L48) Mesic Spoid; (TKR) (MLRR A, L48, L48) Mesic Spoid; (TKR) (MLRR A, L48, L48, L48) Mesic Spoid; (TKR) (MLRR A, L48, L48, L48, L48, L48, L48, L48, L48	• • •		_ = 10tal Cover		l —
Sapling/Shrub: Woody plants less than 3 in. DBH and greater than 3.28 ft (im) tall. 4 Herb: All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall woody vines greater than 3.28 ft tall woody vines greater than 3.28 ft in height. 7 (50%/20% = 0 / 0)					l i i i i i i i i i i i i i i i i i i i
and greater than 3.28 ft (Im) tall. Herb: All herbaceous (non-woody) plants, regardles of size, and woody vines; All woody vines greater than 3.28 ft tall. Woody vines: All woody vines greater than 3.28 ft tall. Woody vines: All woody vines greater than 3.28 ft tall. Woody vines: All woody vines greater than 3.28 ft tall. Herb: All herbaceous language in the leight. Woody vines: All woody vines greater than 3.28 ft tall. Woody vines: All woody vines greater than 3.28 ft all. Woody vines: All woody vines greater than 3.28 ft all. Woody vines: All woods all wood					3 (" 3
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Woody Vines: All woody vines greater than 3.28 ft in height. h			_		
height. height. height. height. height. height. hydrophytic Vegetation Present? Yes No No No No No No No N					1
Som/20% = 0 / 0 0 = Total Cover Hydrophytic Vegetation Present? Yes No were marks: (Include photo numbers here or on a separate sheet.)					· · ·
emarks: (Include photo numbers here or on a separate sheet.) therbaceous layer is absent in this area. AC Neutral: No. OIL					
Ac Neutral: No. SOIL	(50%/20% = 0 / 0)	0	= Total Cover		Hydrophytic Vegetation Present? Yes No
AC Neutral: No. OIL rofile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Matrix Redox Features (inches) Color (moist) % Color (moist) % Type¹ Loc² Texture Remarks O-8 10 YR 5/4 100 Silt loam Fype: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Indicators for Problematic Hydric Soils¹: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, MIRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic Epipedon (A2) MIRA 149B) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Polyvalue Below Surface (S9) (LRR R, MLRA 149B) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Polyvalue Below Surface (S9) (LRR K, L) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Polyvalue Below Surface (S9) (LRR K, L) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Sandy Mucky Mineral (S1) Peleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Sandy Mucky Mineral (S1) Peleted Dark Surface (F6) Piedmont Floodplain Soils (F19) (MIRA 149B) Sandy Mucky Mineral (S1) Redox Depressions (F8) Mesic Spodic (TX6) (MIRA 144A, 145, 149B) Sandy Redox (S5) Redox Depressions (F8) Mesic Spodic (TX6) (MIRA 144A, 145, 149B) ondicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.	emarks: (Include photo numbers here or on a sep	parate sheet.)			
OIL rofile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Matrix Redox Features (inches) Color (moist) % Color (moist) % Type¹ Loc² Texture Remarks Nation	herbaceous layer is absent in this area.				
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Thought	AC Neutral: No.				
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Thought					
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Thought					
Depth Matrix Redox Features Color (moist) % Color (moist) % Type¹ Loc² Texture Remarks Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: Sitt loam Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: Matrix (Sa) Depletic Gard, Matrix (F3) Deple	OIL				
Color (moist)	rofile Description: (Describe to the depth needed	d to document the	indicator or conf	irm the abs	sence of indicators.)
Silt loam	Depth Matrix	Redox Featur	es	_	
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Very Calculation Polyvalue Below Surface (58) (LRR R, Coation: PL=Pore Lining, M=Matrix.	(inches) Color (moist) % Color (m	noist) %	Type ¹ Loc ²	Text	ure Remarks
ydric Soil Indicators: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, Histosol (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) Stratified Layers (A5) Depleted Below Dark Surface (A11) Depleted Below Dark Surface (A12) Redox Dark Surface (F6) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S4) Redox Depressions (F8) Redox Dep	0-8 10 YR 5/4 100			Silt loar	n
Indicators: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, Histosol (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Histic Epipedon (A2) MLRA 149B) Stratified Layers (A5) Depleted Below Dark Surface (A11) Depleted Below Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Stripped Matrix (S6) Dark Surface (S7) (LRR K, L) Redox Depressions (F8) Redox Depressions (F8) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Stripped Matrix (S6) Dark Surface (S7) (LRR K, L) Redox Depressions (F8) Redox Depressions (F					
Histosol (A1)	 -				
Histosol (A1) Polyvalue Below Surface (S8) (LRR R,				-	
Histosol (A1)					
Histosol (A1)					
Histosol (A1)	Type: C-Concentration, D-Depletion, PM-Reduce	od Matrix, CS=Covo	rod or Coatod Sa		21tion: DI Dona Lining AA AA-tuir
Histosol (A1) Polyvalue Below Surface (S8) (LRR R, Coast Prairie Redox (A10) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic Epipedon (A2) Thin Dark Surface (S9) (LRR R, MLRA 149B) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Black Histic (A3) Dark Surface (S7) (LRR K, L) Dark Surface (S8) (LRR K, L) Dark Surface (S8) (LRR K, L) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Redox Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L, R) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Redox (S5) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Itestrictive Layer (if observed): Type: N/A Hydric Soil Present? Yes No ✓				nd Grains	
Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) Stratified Layers (A5) Loamy Mucky Mineral (F1) (LRR K, L) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (F6) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: N/A Depth (inches): MCAS Grairie Redox (A16) (LRR K, L, R) Coast Prairie Redox (A16) (LRR K, L, R) StrM Mucky Mineral (S3) (LRR K, L, R) Dark Surface (S9) (LRR K, L, L) Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L, R) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Mesic Spodic (TX6) (MLRA 144A, 145, 149B) Mesic Spodic (TX6) (MLRA 144A, 145, 149B) Other (Explain in Remarks) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: N/A Depth (inches):		, , , , , , , , , ,		nd Grains.	-
Black Histic (A3)	lydric Soil Indicators:				Indicators for Problematic Hydric Soils ³ :
Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) (LRR K, L) Stratified Layers (A5) Depleted Below Dark Surface (A11) Depleted Matrix (F2) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR K, L) Redox Depressions (F8) Mesic Spodic (TX6) (MLRA 144A, 145, 149B) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: N/A Depth (inches): Hydric Soil Present? Yes No	Hydric Soil Indicators: Histosol (A1)				Indicators for Problematic Hydric Soils ³ : 2 cm Muck (A10) (LRR K, L, MLRA 149B)
Stratified Layers (A5) Depleted Below Dark Surface (A11) Depleted Matrix (F2) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: N/A Depth (inches):	Hydric Soil Indicators: Histosol (A1)	Polyvalue Belo	w Surface (S8) (L	RR R,	Indicators for Problematic Hydric Soils ³ : 2 cm Muck (A10) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R)
Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thick Dark Surface (A12) Redox Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L, R) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Piedmont Floodplain Soils (F19) (MLRA 149I Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TX6) (MLRA 144A, 145, 149B) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: N/A Depth (inches): Hydric Soil Present? Yes No	Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2)	Polyvalue Belo	w Surface (S8) (L	RR R,	Indicators for Problematic Hydric Soils ³ : 2 cm Muck (A10) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R)
Thick Dark Surface (A12) Redox Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L, R) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Piedmont Floodplain Soils (F19) (MLRA 1491 Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TX6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Sestrictive Layer (if observed): Type: N/A Depth (inches): Hydric Soil Present? Yes No	lydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3)	Polyvalue Belo MLRA 149B Thin Dark Surfa	w Surface (S8) (L) ace (S9) (LRR R, N	RR R, ∕ILRA 149B)	Indicators for Problematic Hydric Soils ³ : 2 cm Muck (A10) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
Thick Dark Surface (A12) Redox Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L, R) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Piedmont Floodplain Soils (F19) (MLRA 1491 Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TX6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: N/A Depth (inches): Hydric Soil Present? Yes No	Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4)	Polyvalue Belo MLRA 149B Thin Dark Surfa Loamy Mucky I	w Surface (S8) (L) ace (S9) (LRR R, N Mineral (F1) (LRF	RR R, ∕ILRA 149B)	Indicators for Problematic Hydric Soils ³ : 2 cm Muck (A10) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Dark Surface (S7) (LRR K, L)
Sandy Mucky Mineral (S1)	Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5)	Polyvalue Belo MLRA 149B Thin Dark Surfa Loamy Mucky I	w Surface (S8) (L ace (S9) (LRR R, N Mineral (F1) (LRR Matrix (F2)	RR R, ∕ILRA 149B)	Indicators for Problematic Hydric Soils ³ : 2 cm Muck (A10) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Dark Surface (S7) (LRR K, L) Polyvalue Below Surface (S8) (LRR K, L)
Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TX6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: N/A Depth (inches): Hydric Soil Present? Yes No	Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A11)	Polyvalue Belo MLRA 149B Thin Dark Surfa Loamy Mucky I Loamy Gleyed Depleted Matr	w Surface (S8) (L ace (S9) (LRR R, N Mineral (F1) (LRF Matrix (F2) ix (F3)	RR R, ∕ILRA 149B)	Indicators for Problematic Hydric Soils ³ : 2 cm Muck (A10) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Dark Surface (S7) (LRR K, L) Polyvalue Below Surface (S8) (LRR K, L) Thin Dark Surface (S9) (LRR K, L)
Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: N/A Depth (inches): Red Parent Material (F21) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) Hydric Soil Present? Yes No	Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thick Dark Surface (A12)	Polyvalue Belo MLRA 149B Thin Dark Surfa Loamy Mucky I Loamy Gleyed Depleted Matr Redox Dark Sur	w Surface (S8) (L) ace (S9) (LRR R, N Mineral (F1) (LRF Matrix (F2) ix (F3) rface (F6)	RR R, ∕ILRA 149B)	Indicators for Problematic Hydric Soils ³ : 2 cm Muck (A10) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Dark Surface (S7) (LRR K, L) Polyvalue Below Surface (S8) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L, R)
Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Undicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: N/A Depth (inches): Hydric Soil Present? Yes No	Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1)	Polyvalue Belo MLRA 149B Thin Dark Surfa Loamy Mucky I Loamy Gleyed Depleted Matr Redox Dark Sul Depleted Dark	w Surface (S8) (L) ace (S9) (LRR R, M Mineral (F1) (LRF Matrix (F2) ix (F3) rface (F6) Surface (F7)	RR R, ∕ILRA 149B)	Indicators for Problematic Hydric Soils ³ : 2 cm Muck (A10) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Dark Surface (S7) (LRR K, L) Polyvalue Below Surface (S8) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B
Dark Surface (S7) (LRR R, MLRA 149B) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: N/A Depth (inches): Hydric Soil Present? Yes No	Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4)	Polyvalue Belo MLRA 149B Thin Dark Surfa Loamy Mucky I Loamy Gleyed Depleted Matr Redox Dark Sul Depleted Dark	w Surface (S8) (L) ace (S9) (LRR R, M Mineral (F1) (LRF Matrix (F2) ix (F3) rface (F6) Surface (F7)	RR R, ∕ILRA 149B)	Indicators for Problematic Hydric Soils ³ : 2 cm Muck (A10) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Dark Surface (S7) (LRR K, L) Polyvalue Below Surface (S8) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Mesic Spodic (TX6) (MLRA 144A, 145, 149B)
Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: N/A Depth (inches): Hydric Soil Present? Yes No ✓	Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Redox (S5)	Polyvalue Belo MLRA 149B Thin Dark Surfa Loamy Mucky I Loamy Gleyed Depleted Matr Redox Dark Sul Depleted Dark	w Surface (S8) (L) ace (S9) (LRR R, M Mineral (F1) (LRF Matrix (F2) ix (F3) rface (F6) Surface (F7)	RR R, ∕ILRA 149B)	Indicators for Problematic Hydric Soils ³ : 2 cm Muck (A10) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Dark Surface (S7) (LRR K, L) Polyvalue Below Surface (S8) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Mesic Spodic (TX6) (MLRA 144A, 145, 149B) Red Parent Material (F21)
Restrictive Layer (if observed): Type: N/A Depth (inches): Hydric Soil Present? Yes No	Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Redox (S5)	Polyvalue Belo MLRA 149B Thin Dark Surfa Loamy Mucky I Loamy Gleyed Depleted Matr Redox Dark Sul Depleted Dark	w Surface (S8) (L) ace (S9) (LRR R, M Mineral (F1) (LRF Matrix (F2) ix (F3) rface (F6) Surface (F7)	RR R, ∕ILRA 149B)	Indicators for Problematic Hydric Soils ³ : 2 cm Muck (A10) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Dark Surface (S7) (LRR K, L) Polyvalue Below Surface (S8) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Mesic Spodic (TX6) (MLRA 144A, 145, 149B) Red Parent Material (F21)
Restrictive Layer (if observed): Type: N/A Depth (inches): Hydric Soil Present? Yes No ✓	Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Redox (S5) Stripped Matrix (S6)	Polyvalue Belo MLRA 149B Thin Dark Surfa Loamy Mucky I Loamy Gleyed Depleted Matr Redox Dark Sul Depleted Dark	w Surface (S8) (L) ace (S9) (LRR R, M Mineral (F1) (LRF Matrix (F2) ix (F3) rface (F6) Surface (F7)	RR R, ∕ILRA 149B)	Indicators for Problematic Hydric Soils ³ : 2 cm Muck (A10) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Dark Surface (S7) (LRR K, L) Polyvalue Below Surface (S8) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Mesic Spodic (TX6) (MLRA 144A, 145, 149B) Red Parent Material (F21) Very Shallow Dark Surface (TF12)
Type: N/A Depth (inches): Hydric Soil Present? Yes No V	Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B)	Polyvalue Belo MLRA 149B Thin Dark Surfa Loamy Mucky I Loamy Gleyed Depleted Matr Redox Dark Sur Depleted Dark Redox Depress	w Surface (S8) (L) ace (S9) (LRR R, N Mineral (F1) (LRF Matrix (F2) ix (F3) rface (F6) Surface (F7) ions (F8)	RR R, //LRA 149B) 8 K, L)	Indicators for Problematic Hydric Soils ³ : 2 cm Muck (A10) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Dark Surface (S7) (LRR K, L) Polyvalue Below Surface (S8) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Mesic Spodic (TX6) (MLRA 144A, 145, 149B) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Other (Explain in Remarks)
Depth (inches):	Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Indicators of hydrophytic vegetation and wetland	Polyvalue Belo MLRA 149B Thin Dark Surfa Loamy Mucky I Loamy Gleyed Depleted Matr Redox Dark Sur Depleted Dark Redox Depress	w Surface (S8) (L) ace (S9) (LRR R, N Mineral (F1) (LRF Matrix (F2) ix (F3) rface (F6) Surface (F7) ions (F8)	RR R, //LRA 149B) 8 K, L)	Indicators for Problematic Hydric Soils ³ : 2 cm Muck (A10) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Dark Surface (S7) (LRR K, L) Polyvalue Below Surface (S8) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Mesic Spodic (TX6) (MLRA 144A, 145, 149B) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Other (Explain in Remarks)
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Project/Site: Lincoln Park Grid Support Center	City/C	ounty: Town	of Ulster, Uls	ster County Sampling Date: 12/11/2018
Applicant/Owner: Lincoln Park DG, LLC	_	-		State: NY Sampling Point: E-2-W
Investigator(s): David MacDougall		Section,	Township, Ra	ange: N/A
Landform (hillslope, terrace, etc.): depression	Local R	elief (concave	, convex, no	ne): concave Slope %: 1
Subregion (LRR or MLRA): LRR R Latitude:	41 !	57'49.88'' ° N	Longitud	de: -73 58'25.83" ° W Datum: WGS 84
Soil Map Unit Name: Bath Nassau Rock Outcrop (BOD)			_	NWI Classification: PSS
Are climatic/hydrologic conditions on the site typical for th	is time of ve	ar? Yo	es 🗸 No	(If no, explain in Remarks.)
Are Vegetation , Soil , or hydrology significantly	-			cumstances" present? Yes
Are Vegetation , Soil , or hydrology naturally pro				ain any answers in remarks.)
			·	
SUMMARY OF FINDINGS - Attach site map show	wing samp	ling point l	ocations,	transects, important features, etc.
Hydrophytic Vegetation Present? Yes 🗸 No 🔛		Is the Sa	mpled Area	within a Wetland? Yes 🗸 No 🔃
Hydric Soil Present? Yes V No				
Wetland Hydrology Present? Yes 🗸 No 🗌		If yes, op	tional Wetla	nd Site ID: E
Remarks: (Explain alternative procedures here or in a sepa	rate report.)			
HYDROLOGY				
Wetland Hydrology Indicators:				Secondary Indicators (minimum of 2)
Primary Indicators (minimum of one is required; check all t	hat apply)			Surface Soil Cracks (B6)
Surface Water (A1)		ned Leaves (BS	9)	Drainage Patterns (B10)
High Water Table (A2)	Aquatic Fau			Moss Trim Lines (B16)
✓ Saturation (A3)	Marl Depos	its (B15) ulfide Odor (C	11	Dry-Season Water Table (C2) Crayfish Burrows (C8)
Water Marks (B1) Sediment Deposits (B2)		nizospheres or		
Drift Deposits (B3)		Reduced Iror	_	Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4)		Reduction in		
Iron Deposits (B5)	Thin Muck	Surface (C7)		Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7)	Other (Expl	ain in Remark	s)	Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8)				FAC-Neutral Test (D5)
Field Observations:	-1			
Surface Water Present? Yes No Depth (inche Water Table Present? Yes No Depth (inche	· -			
Saturation Present? Yes V No Depth (inche			Wetlan	d Hydrology Present? Yes 🗸 No
(includes capillary fringe)				
Describe Recorded Data (stream gauge, monitoring well, a	erial photos,	previous insp	ections), if a	vailable:
Remarks:				
VEGETATION - Use Scientific Names of Plants.				
Trace Characteristics (Distriction 20) and the h	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 20' radius) 1 Acer rubrum	% Cover 15	Species? Yes	Status FAC	Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)
2		163	TAC	That Are Obt, FACW, OF FAC.
3				Total Number of Dominant
4				Species Across All Strata: 2 (B)
5				
6				Percent of Dominant Species
7				That Are OBL, FACW, or FAC: 100% (A/B)
(50%/20% = 7.5 / 3)	15=	= Total Cover		
Sapling/Shrub Stratum (Plot size: 15' radius) 1 Lindera benzoin	60	Voc	FACW	Prevalence Index worksheet: Total % Cover of: Multiply by:
2 Ilex verticillata	5	Yes No	FACW	Total % Cover of: Multiply by: OBL species x 1
3		140	IACVV	FACW species x 2
4			-	FAC species x 3
5				FACU species x 4
6				UPL Species x 5
7				Column Totals: (A) (B)
(50%/20% = 33 / 13)	65 =	Total Cover		Prevalence Index = B/A =



Herb Stratum (Plot size: 5' radius)	Vegetation (continued)	Absolute	Dominant	Indicator	Hydrophytic Vegetation Indicators:
Prevalence Index is \$3.0¹ Amorphological Adaptations (Provide Support data in Remarks or on a separate sheet) Amorphological Adaptations (Provide Support data in Remarks or on a separate sheet) Amorphytic Vegetation (Explair of Support of Suppor	Herb Stratum (Plot size: 5' radius)				
Morphological Adaptations* (Provide Support data in Remarks or on a separate Support data in Remarks or on a separate Support data in Remarks or on a separate Support (Explain (1974)) Provide Support data in Remarks or on a separate Support (1974) Provide Support data in Remarks or on a separate Support (1974) Provide Support data in Remarks or on a separate Support (1974) Provide Support data in Remarks or on a separate Support data in Remarks or on Support data in Remarks or on a separate Support data in Remarks or on a separate Support data in Remarks or on Support data in Rema	1 NONE				Dominance test is >50%
data in Remarks or on a separate sheet) GoSM/20% = 0 / 0 0 0 Total Cover Tere: Woody plants Situs/Bed or problematic.	2				Prevalence Index is ≤3.0 ¹
Problematic Hydrophytic Vegetation (Explair Indicators of hydric soil and with dydrology must be present, unless disturbed or problematic. Definitions of Vegetation Strata: Tree: Woody plans is disturbed or problematic. Definitions of Vegetation Strata: Tree: Woody plans is problematic. Definitions of Vegetation Strata: Tree: Woody plans is problematic. Definitions of Vegetation Strata: Tree: Woody plans is problematic. Sapling/shrub: Woody plans is problematic. Sapling/shrub: Woody plans is plant is est and a 1 in. DBH and greater than 3.28 ft (1m) tall. Herb: All herbaceous (non-woody) plants, regardle of size, and woody plants is than 3.28 ft tall. Goody Vines: All woody vines: greater than 3.28 ft (1m) tall. Woody Vines: All woody vines: shrub a.28 ft tall. Woody Vines: All woody vines: shrub a.28 ft tall. Woody Vines: All woody vines: shrub a.28 ft tall. Woody Vines: All woody vines: shrub a.28 ft tall. Woody Vines: All woody vines: shrub a.28 ft tall. Woody Vines: All woody vines: shrub a.28 ft tall. Woody Vines: All woody vines:	3				Morphological Adaptations ¹ (Provide Supporting
Indicators of hydric soil and wetland hydrology method by the present, unless disturbed or problematic.	4				
be present, unless disturbed or problematic.	5				Problematic Hydrophytic Vegetation ¹ (Explain)
Comparison of	6				¹ Indicators of hydric soil and wetland hydrology must
Tree: Woody plants 3 in. (7.6 cm) or more in diame at breast height (DBH), regardless of height.	7				be present, unless disturbed or problematic.
at breast height (DBH), regardless of height. Sapfing/firrub: Woody plants less than 3 in. DBH and greater than 3.2 ft (1m) tall. Herb: All herbaceous (non-woody) plants, regardles of size, and woody plants less than 3 sg. ft tall. Woody Vines: All woody vines greater than 3.28 ft tall. Woody Vines: All woody vines greater than 3.28 ft tall. Woody Vines: All woody vines greater than 3.28 ft tall. Woody Vines: All woody vines greater than 3.28 ft height. To fish Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Popth Matrix Redox Features Octor (moist) Color (moist) Redox Features (inches) Color (moist) Color (moist) Texture Remarks Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated S	(50%/20% = 0 / 0)	0	= Total Cover		Definitions of Vegetation Strata:
Sapling/shrub: Woody plants less than 3 in. DBH and greater than 3.28 ft (1m) tall. Herb: All herbaceous (non-woody) plants, regardle of size, and woody plants less than 3.28 ft tall. Woody Vines: All woody vines greater than 3.28 ft tall. Woody Vines: All woody vines greater than 3.28 ft tall. Woody Vines: All woody vines greater than 3.28 ft tall. Na herbaceous layer was absent. Ac Neutral: Yes. SOIL Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Matrix Redox Features (inches) Color (moist) % Color (moist) % Type! Loc Texture Remarks (inches) Color (moist) % Color (moist) % Type! Loc Silt loam Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=	Woody Vine Stratum (Plot size: 5' radius)				Tree: Woody plants 3 in. (7.6cm) or more in diameter
and greater than 3.28 ft (m) tall. Herb: All herbaceous (non-woody) plants, regardle of size, and woody plants less than 3.28 ft tall. Governments: (Include photo numbers here or on a separate sheet.) Alerbaceous layer was absent. AC Neutral: Yes Color (moist) AC Neutral: Yes	1 NONE				at breast height (DBH), regardless of height.
Herb: All herbaceous (non-woody) plants, regardle of size, and woody yines stest han 3.28 ft tall. Woody vines (set stan 3.28 ft tall. Woody vines (set stan 3.28 ft tall. Woody vines (set stan 3.28 ft tall. New poody vines (set stan 3.28 ft tall.	2				Sapling/shrub: Woody plants less than 3 in. DBH
of size, and woody plants less than 3.28 ft tail. Woody Vines: All woody vines greater than 3.28 ft tail. Total Cover	3				
Woody Vines: All woody vines greater than 3.28 ft height. Woody Vines: All woody vines greater than 3.28 ft No	4				
Reight Reight Remarks Remark	_				• •
Som/20% = 0 / 0 0 = Total Cover Hydrophytic Vegetation Present? Yes Natemarks: (Include photo numbers here or on a separate sheet.)					
Remarks: (Include photo numbers here or on a separate sheet.) A herbaceous layer was absent. AC Neutral: Yes. COIL Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth					
A herbaceous layer was absent. AC Neutral: Yes. SOIL Frofile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Matrix Redox Features (Inches) Color (moist) % Color (moist) % Type¹ Loc² Texture Remarks 0-4 10 YR 3/2 100 Silt loam 4-12 10 YR 7/2 95 10 YR 4/6 5 C M Silt loam Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. **Location: PL=Pore Lining, M=Matrix. Redmarks Indicators of Problematic Hydric Soils³: Alist Capital	(50%/20% = 0 / 0)	0	= Total Cover		Hydrophytic Vegetation Present? Yes 🗸 No
AC Neutral: Yes. Coll	lemarks: (Include photo numbers here or on a sepa	arate sheet.)			
Depth Matrix Redox Features Matrix Redox Features Color (moist) % Color (moist) % Type Loc Texture Remarks	herbaceous layer was absent.				
Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Matrix Redox Features (inches) Color (moist) Color (moist) Type¹ Loc² Texture Remarks O-4 10 YR 3/2 100 Silt loam 4-12 10 YR 7/2 95 10 YR 4/6 5 C M Silt loam Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Polyvalue Below Surface (S8) (LRR R, Indicators for Problematic Hydric Soils³: Indicators for Problematic Hydric Soils³: Indicators (LRR K, L) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) MIRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) Sc m Mucky Peat or Peat (S3) (LRR K, L, Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) (LRR K, L) Dark Surface (S7) (LRR K, L) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L) Sandy Mucky Mineral (S1) Redox Depressions (F8) Redox Depressions (F8) Redox Class (S0) (LRR R, MLRA 149B) Medicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Estrictive Layer (if observed): Type: N/A Depth (inches):	AC Neutral: Yes.				
Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Matrix Redox Features (inches) Color (moist) Color (moist) Type¹ Loc² Texture Remarks O-4 10 YR 3/2 100 Silt loam 4-12 10 YR 7/2 95 10 YR 4/6 5 C M Silt loam Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Polyvalue Below Surface (S8) (LRR R, Indicators for Problematic Hydric Soils³: Indicators for Problematic Hydric Soils³: Indicators (LRR K, L) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) MIRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) Sc m Mucky Peat or Peat (S3) (LRR K, L, Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) (LRR K, L) Dark Surface (S7) (LRR K, L) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L) Sandy Mucky Mineral (S1) Redox Depressions (F8) Redox Depressions (F8) Redox Class (S0) (LRR R, MLRA 149B) Medicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Estrictive Layer (if observed): Type: N/A Depth (inches):					
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Color (moist) Color (moist				iiiii tile abs	ience of malcators.
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depleted Matrix, CS=Covered or Coated Sand Grains. Thid care Sand Muck (A10) (LRR K, L, MIRA 149B) This Dark Surface (A10) (LRR K, L, MIRA 149B) Thin Dark Surface (S9) (LRR R, MLRA 149B) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A11) Depleted Below Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Depleted Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Redox (S5) Red Dark Surface (F7) Peidmont Floodplain Soils (F19) (MLRA 144A, 145, 14 Mesic Spodic (TX6) (MLRA 144A, 14			1 7	_ Tevti	ire Remarks
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Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Natric Soil Indicators: Indicators for Problematic Hydric Soils ³ : Indicators for Problematic Hydric Soils ³ : Indicators for Problematic Hydric Soils ³ : 2 cm Muck (A10) (LRR K, L, MLRA 1498) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 1498) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Dark Surface (S7) (LRR K, L) Dark Surface (S7) (LRR K, L) Dark Surface (S7) (LRR K, L) Depleted Below Dark Surface (S9) (LRR K, L) Depleted Below Dark Surface (A11) Depleted Matrix (F2) Polyvalue Below Surface (S9) (LRR K, L) Thick Dark Surface (A12) Redox Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Piedmont Floodplain Soils (F19) (MLRA Sandy Redox (S5) Red Parent Material (F21) Very Shallow Dark Surface (TT21) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 1498) Other (Explain in Remarks) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Hydric Soil Present? Yes No Depth (inches): NA Depth (inches): Hydric Soil Present? Yes No Depth (inches): NA Depth (inches): NA Depth (inches): Na Na Na Na Na Na Na N		/6 5			
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Histosol (A1)	Type: C=Concentration, D=Depletion, RM=Reduced	d Matrix. CS=Cove	red or Coated Sa	nd Grains.	² Location: PL=Pore Lining, M=Matrix.
Histosol (A1)					
Histic Epipedon (A2) MIRA 149B) □ Coast Prairie Redox (A16) (LRR K, L, R) □ Black Histic (A3) □ Thin Dark Surface (S9) (LRR R, MLRA 149B) □ S cm Mucky Peat or Peat (S3) (LRR K, L, L) □ Stratified Layers (A5) □ Loamy Mucky Mineral (F1) (LRR K, L) □ Depleted Below Dark Surface (S9) (LRR K, L) □ Depleted Below Dark Surface (A11) □ Depleted Matrix (F3) □ Thick Dark Surface (A12) □ Sandy Mucky Mineral (S1) □ Sandy Mucky Mineral (S1) □ Depleted Dark Surface (F6) □ Iron-Manganese Masses (F12) (LRR K, L) □ Sandy Gleyed Matrix (S4) □ Sandy Redox (S5) □ Stripped Matrix (S6) □ Dark Surface (S7) (LRR R, MLRA 149B) □ Other (Explain in Remarks) □ Other (Explain in Remarks) □ Other (Explain in Remarks) □ N/A □ Depth (inches): □ Hydric Soil Present? Yes ✓ No □		7 Polyvalue Belo	w Surface (SR) (I	DD D	
Black Histic (A3)	_ ` '	-		ш,	
Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) (LRR K, L) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (F6) Stripped Matrix (S6) Dark Surface (F7) Thick Dark Surface (F7) Piedmont Floodplain Soils (F19) (MLRA 144A, 145, 145, 147) Redox Depressions (F8) Redox Depressions (F8) Other (Explain in Remarks) And Calculators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: N/A Depth (inches): Hydric Soil Present? Yes V No				ΛΙ RΛ 1/10R\	
Stratified Layers (A5) Depleted Below Dark Surface (A11) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (F2) Depleted Dark Surface (F6) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: N/A Depth (inches):		=			
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Thick Dark Surface (A12) Redox Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L, Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Piedmont Floodplain Soils (F19) (MLRA Sandy Mesic Spodic (TX6) (MLRA 144A, 145, 145, 146) Redox Depressions (F8) Redox (S5) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: N/A Depth (inches): Hydric Soil Present? Yes V No					
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Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TX6) (MLRA 144A, 145, 145, 145, 145, 145, 145, 145, 145			` '		
Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: N/A Depth (inches): Red Parent Material (F21) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) Hydric Soil Present? Yes V No		= '			
Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Undicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: N/A Depth (inches): Hydric Soil Present? Yes V No		Redox Depress	ions (F8)		\mathbf{H}
Dark Surface (S7) (LRR R, MLRA 149B) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: N/A Depth (inches): Hydric Soil Present? Yes Vo					
Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: N/A Depth (inches): Hydric Soil Present? Yes Volume No	H '' '				
Restrictive Layer (if observed): Type: N/A Depth (inches): Hydric Soil Present? Yes V No	L L Dork Curtoso (C7) (LDD D MIDA 140D)				Other (Explain in Remarks)
Type: N/A Depth (inches): Hydric Soil Present? Yes V No	Dark Surface (S7) (LRR R, MLRA 149B)		present, unless	disturbed o	or problematic.
Depth (inches):		hydrology must be			
	Indicators of hydrophytic vegetation and wetland h	hydrology must be			
Remarks:	Indicators of hydrophytic vegetation and wetland bestrictive Layer (if observed):	hydrology must be			Hydric Soil Present? Yes 🗸 No 🗌
	Indicators of hydrophytic vegetation and wetland has received. Restrictive Layer (if observed): Type: N/A	hydrology must be			Hydric Soil Present? Yes 🗸 No 🗌
	Indicators of hydrophytic vegetation and wetland has restrictive Layer (if observed): Type: N/A Depth (inches):	hydrology must be			Hydric Soil Present? Yes 🗸 No 🗌
	Indicators of hydrophytic vegetation and wetland he Restrictive Layer (if observed): Type: N/A Depth (inches):	hydrology must be			Hydric Soil Present? Yes 🗸 No 🗌
	Indicators of hydrophytic vegetation and wetland he Restrictive Layer (if observed): Type: N/A Depth (inches):	hydrology must be			Hydric Soil Present? Yes 🗸 No 🗌
	Indicators of hydrophytic vegetation and wetland he Restrictive Layer (if observed): Type: N/A Depth (inches):	hydrology must be			Hydric Soil Present? Yes 🗸 No 🗌
	Indicators of hydrophytic vegetation and wetland he Restrictive Layer (if observed): Type: N/A Depth (inches):	hydrology must be			Hydric Soil Present? Yes 🗸 No 🗌
	Indicators of hydrophytic vegetation and wetland he Restrictive Layer (if observed): Type: N/A Depth (inches):	hydrology must be			Hydric Soil Present? Yes V No
	Indicators of hydrophytic vegetation and wetland he Restrictive Layer (if observed): Type: N/A Depth (inches):	hydrology must be			Hydric Soil Present? Yes 🗸 No 🗌
	Indicators of hydrophytic vegetation and wetland he Restrictive Layer (if observed): Type: N/A Depth (inches):	hydrology must be			Hydric Soil Present? Yes V No



APPENDIX G

2015 WOTUS

2015 Clean Water Rule Cheat Sheet

WATERS OF THE U.S.: The term "waters of the United States" means:

- (a)(1) All waters which are currently used, were used in the past, or may be susceptible to use in <u>interstate or foreign commerce</u>, including all waters which are <u>subject to the ebb and flow of the tide</u>;
- (a)(2) All interstate waters, including interstate wetlands;
- (a)(3) The territorial seas;
- (a)(4) All impoundments of waters otherwise identified as waters of the United States under this section:
- (a)(5) All tributaries, as defined in paragraph (c)(3) of this section, of waters identified in paragraphs (a)(1) through (3) of this section;
 - (c)(3) Tributary and tributaries. The terms tributary and tributaries each mean a water that contributes flow, either directly or through another water (including an impoundment identified in paragraph (a)(4) of this section), to a water identified in paragraphs (a)(1) through (3) of this section that is characterized by the presence of the physical indicators of a bed and banks and an ordinary high water mark.
- (a)(6) All waters <u>adjacent</u> to a water identified in paragraphs (a)(1) through (5) of this section, including wetlands, ponds, lakes, oxbows, impoundments, and similar waters;
 - (c)(1) Adjacent. The term adjacent means <u>bordering</u>, <u>contiguous</u>, <u>or neighboring</u> a water identified in paragraphs (a)(1) through (5) of this definition, including waters separated by constructed dikes or barriers, natural river berms, beach dunes, and the like.
 - (c)(2) Neighboring. The term neighboring means:
 - (c)(2)(i) All waters located within 100 feet of the ordinary high water mark of a water identified in paragraphs (a)(1) through (5) of this section. The entire water is neighboring if a portion is located within 100 feet of the ordinary high water mark;
 - (c)(2)(ii) All waters located within the 100-year floodplain of a water identified in paragraphs (a)(1) through (5) of this section and not more than 1,500 feet from the ordinary high water mark of such water. The entire water is neighboring if a portion is located within 1,500 feet of the ordinary high water mark and within the 100-year floodplain;
 - (c)(2)(iii) All waters located within 1,500 feet of the high tide line of a water identified in paragraphs (a)(1) or (a)(3) of this section, and all waters within 1,500 feet of the ordinary high water mark of the Great Lakes. The entire water is neighboring if a portion is located within 1,500 feet of the high tide line or within 1,500 feet of the ordinary high water mark of the Great Lakes.
- (a)(7) All waters in paragraphs (a)(7)(i) through (v) of this section where they are determined, on a case-specific basis, to have a significant nexus to a water identified in paragraphs (a)(1) through (3) of this section.

 (a)(7)(i) Prairie potholes.
 - (a)(7)(ii) Carolina bays and Delmarva bays.
 - (a)(7)(iii) Pocosins.
 - (a)(7)(iv) Western vernal pools.
 - (a)(7)(v) Texas coastal prairie wetlands.
- (a)(8) All waters located within the 100- year floodplain of a water identified in paragraphs (a)(1) through (3) of this section and all waters located within 4,000 feet of the high tide line or ordinary high water mark of a water identified in paragraphs (a)(1) through (5) of this section where they are determined on a case-specific basis to have a significant nexus to a water identified in paragraphs (a)(1) through (3) of this section.

2015 Clean Water Rule Cheat Sheet

- EXCLUSIONS: 33CFR328.3(b) The following are not "waters of the United States" even where they otherwise meet the terms of paragraphs (a)(4) through (8) of this section.
- (b)(1) Waste treatment systems, including treatment ponds or lagoons designed to meet the requirements of the Clean Water Act.
- (b)(2) Prior converted cropland. Notwithstanding the determination of an area's status as prior converted cropland by any other Federal agency, for the purposes of the Clean Water Act, the final authority regarding Clean Water Act jurisdiction remains with EPA.
- **(b)(3)** The following ditches:
 - (b)(3)(i) Ditches with ephemeral flow that are not a relocated tributary or excavated in a tributary.
 - (b)(3)(ii) Ditches with intermittent flow that are not a relocated tributary, excavated in a tributary, or drain wetlands.
 - (b)(3)(iii) Ditches that do not flow, either directly or through another water, into a water identified in paragraphs (a)(1) through (3) of this section.
- (b)(4) The following features:
 - (b)(4)(i) Artificially irrigated areas that would revert to dry land should application of water to that area cease;
 - (b)(4)(ii) Artificial, constructed lakes and ponds created in dry land such as farm and stock watering ponds, irrigation ponds, settling basins, fields flooded for rice growing, log cleaning ponds, or cooling ponds;
 - (b)(4)(iii) Artificial reflecting pools or swimming pools created in dry land;
 - (b)(4)(iv) Small ornamental waters created in dry land;
 - (b)(4)(v) Water-filled depressions created in dry land incidental to mining or construction activity, including pits excavated for obtaining fill, sand, or gravel that fill with water;
 - (b)(4)(vi) Erosional features, including gullies, rills, and other ephemeral features that do not meet the definition of tributary, non-wetland swales, and lawfully constructed grassed waterways; and
 - (b)(4)(vii) Puddles.
- (b)(5) Groundwater, including groundwater drained through subsurface drainage systems.
- (b)(6) Stormwater control features constructed to convey, treat, or store stormwater that are created in dry land.
- (b)(7) Wastewater recycling structures constructed in dry land; detention and retention basins built for wastewater recycling; groundwater recharge basins; percolation ponds built for wastewater recycling; and water distributary structures built for wastewater recycling.

APPENDIX H

Landowner Forms

PRELIMINARY JURISDICTIONAL DETERMINATION FORM

This preliminary JD finds that there "may be" waters of the United States on the subject project site, and identifies all aquatic features on the site that could be affected by the proposed activity, based on the following information:

District Office New York - NY File/ORM #	PJD Date: Feb 8, 2019
State NY City/County Town of Ulster / Ulster Count	Name/ Lincolli Faik DO, LLC
Nearest Waterbody: Esopus Creek	Address of Person Person 132 N, York Street, Suite 3L Elmhurst, IL 60126
Location: TRS, LatLong or UTM: 41o57'51.20" and -73o58'30.59	Requesting PJD Consultant: The Chazen Companies, Attn: Barbara Beall 20 Elm St - Suite 110, Glens Falls NY 12801
Identify (Estimate) Amount of Waters in the Review Area: Non-Wetland Waters: Stream Flow: N/A N/A	Name of Any Water Bodies Tidal: none on the Site Identified as Section 10 Waters: none
Wetlands: 0.9 acre(s) Cowardin Class: Palustrine, forested	☐ Office (Desk) Determination ☐ Field Determination: Date of Field Trip:
Maps, plans, plots or plat submitted by or on behalf of the □ Data sheets prepared/submitted by or on behalf of the □ Office concurs with data sheets/delineation □ Office does not concur with data sheets/delineation □ Data sheets prepared by the Corps □ Corps navigable waters' study: □ U.S. Geological Survey Hydrologic Atlas: □ USGS NHD data. □ USGS 8 and 12 digit HUC maps. □ U.S. Geological Survey map(s). Cite quad name: □ USDA Natural Resources Conservation Service Soil □ National wetlands inventory map(s). Cite name: USFV	e applicant/consultant. report. neation report. GS National Map Kingston East Survey. Citation: Soil Survey of Ulster County 1979 WS GIS Data
 ✓ State/Local wetland inventory map(s): NYSDEC GIS I ☐ FEMA/FIRM maps: FIRM 36111C0480E ☐ 100-year Floodplain Elevation is: ✓ Photographs: ✓ Aerial (Name & Date): Esri, DigitalG ✓ Other (Name & Date): Site Photos tage ☐ Previous determination(s). File no. and date of respon ☐ Other information (please specify): 	lobe, GeoEye, Earthstar Geographic
IMPORTANT NOTE: The information recorded on this form has not necessarily	been verified by the Corps and should not be relied upon for later jurisdictional determinations.
Signature and Date of Regulatory Project Manager (REQUIRED)	Signature and Date of Person Requesting Preliminary JD (REQUIRED, unless obtaining the signature is impracticable)

${\bf EXPLANATION\ OF\ PRELIMINARY\ AND\ APPROVED\ JURISDICTIONAL\ DETERMINATIONS:}$

- 1. The Corps of Engineers believes that there may be jurisdictional waters of the United States on the subject site, and the permit applicant or other affected party who requested this preliminary JD is hereby advised of his or her option to request and obtain an approved jurisdictional determination (JD) for that site. Nevertheless, the permit applicant or other person who requested this preliminary JD has declined to exercise the option to obtain an approved JD in this instance and at this time.
- 2. In any circumstance where a permit applicant obtains an individual permit, or a Nationwide General Permit (NWP) or other general permit verification requiring "preconstruction notification" (PCN), or requests verification for a non-reporting NWP or other general permit, and the permit applicant has not requested an approved JD for the activity, the permit applicant is hereby made aware of the following: (1) the permit applicant has elected to seek a permit authorization based on a preliminary JD, which does not make an official determination of jurisdictional waters; (2) that the applicant has the option to request an approved JD before accepting the terms and conditions of the permit authorization, and that basing a permit authorization on an approved JD could possibly result in less compensatory mitigation being required or different special conditions; (3) that the applicant has the right to request an individual permit rather than accepting the terms and conditions of the NWP or other general permit authorization; (4) that the applicant can accept a permit authorization and thereby agree to comply with all the terms and conditions of that permit, including whatever mitigation requirements the Corps has determined to be necessary; (5) that undertaking any activity in reliance upon the subject permit authorization without requesting an approved JD constitutes the applicant's acceptance of the use of the preliminary JD, but that either form of JD will be processed as soon as is practicable; (6) accepting a permit authorization (e.g., signing a proffered individual permit) or undertaking any activity in reliance on any form of Corps permit authorization based on a preliminary JD constitutes agreement that all wetlands and other water bodies on the site affected in any way by that activity are jurisdictional waters of the United States, and precludes any challenge to such jurisdiction in any administrative or judicial compliance or enforcement action, or in any administrative appeal or in any Federal court; a

CONSENT OF PROPERTY OWNER(S)

DATE:

1 2	e Route 32, Ulster, NY lber: 48.12-1-20	
authorized to gr noted property	G, LLC is the owner of the above noted property. I certify rant the US Army Corps of Engineers (ACOE) access for the purpose of determining the limits of federal jurischer waters of the United States on said property.	to the above
Signed:		
Printed:		
Title:		