# APPENDIX M CASE 10-T-0189 WATERBODY INVENTORY (114A) & WETLAND DELINEATION REPORT

# Wetland & Waterbodies Delineation Report



# Champlain Hudson Power Express Segment 3-Package 2

# Fort Ann - Kingsbury, New York

CHA Project Number: 066076

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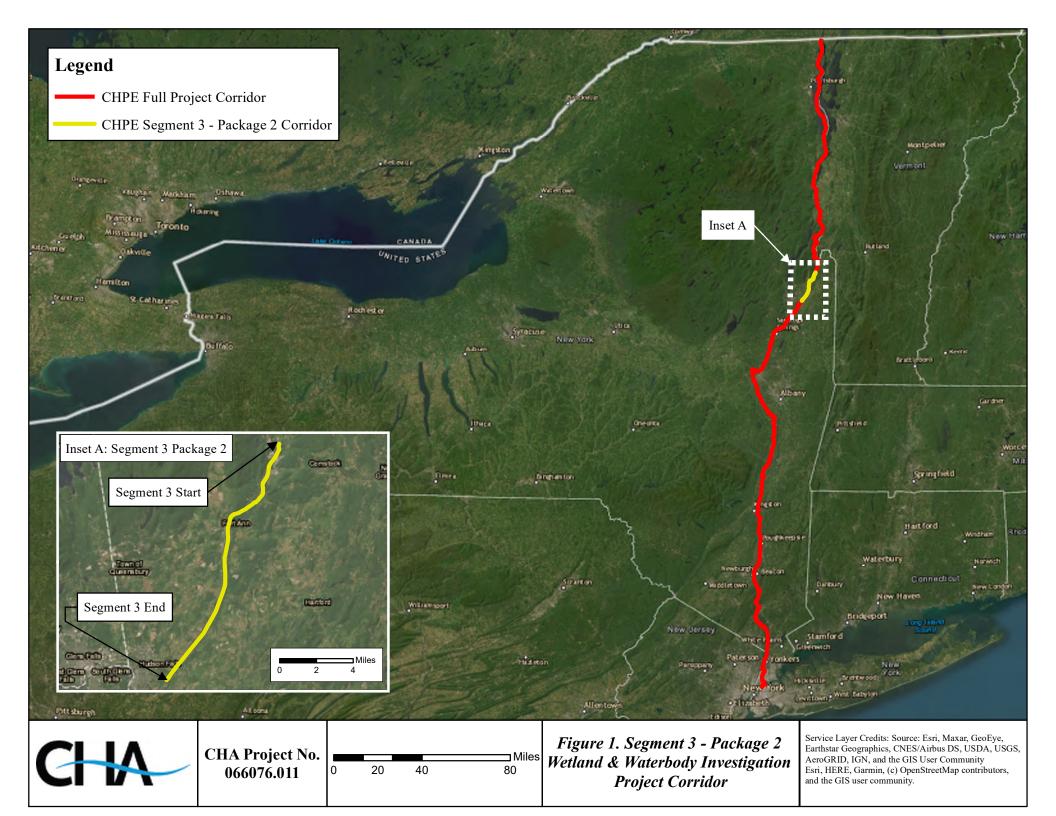
#### 1.0 INTRODUCTION

CHA Consulting, Inc. ("CHA") has prepared this wetland and waterbodies delineation report on behalf of Champlain Hudson Power Express, LLC. ("CHPE, LLC") and Kiewit Construction (Kiewit) for the Champlain Hudson Power Express Project (Project). CHA was retained by Kiewit to identify and delineate jurisdictional wetlands and waterways regulated under Section 404 of the Clean Water Act (CWA), Section 10 of the Rivers and Harbors Act of 1899, New York State Article 15 (Protection of Waters) and Article 24 Freshwater Wetlands Act (FWW) of the Environmental Conservation Law along the overland transmission cable route that follows State, county and local roadways and the Canadian-Pacific ("CP") railroad rights-of-way ("ROW"), herein referred to as the Project Corridor. Delineations were conducted with the objective of verifying and updating previous wetland delineations performed for the Project Corridor as part of the Article VII and Section 10/404 permitting processes. This report describes the wetland delineation methodology and the existing wetland and waterbody resources that were identified in the Project Corridor (also defined as the Jurisdiction Determination (JD) limits) during field surveys for the overland portions of the Project.

#### 2.0 PACKAGE 2 CORRIDOR OVERVIEW

The entire Project Corridor is approximately 339 miles from Montreal, Quebec, Canada to New York City, New York, USA. Figure 1 below shows the route from the Canadian border to New York City and highlights the approximately 15.1 miles of the Package 2 Project Corridor that was investigated for wetlands and waterbodies.

Segment 3 - Package 2 begins at the cross-over from the Canadian Pacific (CP) railroad to a segment of Old Route 4 in the Town of Whitehall, NY, just north of the municipal boundary with the Town of Fort Ann. The Project Corridor extends south on Old Route 4, into the Town of Fort Ann and transitioning back to CP at the southern terminus of this road, for a total of 3.2 miles. The Project Corridor then extends approximately 11.9 miles south through the towns of Fort Ann and Kingsbury to a point approximately at the municipal boundary between the towns of Kingsbury and Fort Edward.



#### 3.0 WETLAND DELINEATION METHODOLOGY

To determine the potential for wetland impacts from construction of the Project, CHA assessed the Project Corridor in the field for the presence of federal (Section 404 CWA & Section 10 of the Rivers and Harbors Act of 1899) and state (Article 24 FWW & Article 15 Protection of Waters) jurisdictional wetlands and waterbodies. Greenman Pedersen, Inc. (GPI) assisted with the field work. The delineation criteria and methodology were performed in accordance with the United States Army Corps of Engineers (USACE) 1987 Wetland Delineation Manual, the Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Northcentral and Northeast Region (January 2012), as well as the New York State Freshwater Wetlands Delineation Manual (Browne et. al., 1995).

The Project Corridor for the surveyed portions of the project included the land within the existing NYS Old Route 4 ROW and the CP railroad ROW. The wetland delineation limits were approximately 50 feet from the edge of pavement and approximately 100 feet from the outside edge of rail, limited to the side of the road or railroad corridor on which the alignment follows and within the ROW of the roads and railroad.

In accordance with the procedures provided in the USACE Wetland Delineation Manual (1987), and the *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Northcentral and Northeast Region*, Version 2.0 (January 2012), the "Routine Wetland Determination" method was used to delineate wetland boundaries.

The wetland boundaries were determined in the field based on the three-parameter approach, whereby an area is a wetland if it exhibits vegetation adapted to wet conditions (hydrophytes), hydric soils, and the presence or evidence of water at or near the soil surface during the growing season (hydrology).

Coded surveyor's ribbons (eg, flag code A-1, A-2, etc.) were placed along the wetland boundaries based on observations of vegetation, soils and hydrologic conditions. Data points were recorded along the wetland boundaries at various locations across different vegetative community types correlating to each wetland. At each location a wetland data point and an upland data point were recorded to show the difference between the wetland and upland habitats. At a minimum, one data

point set (wetland and upland) was collected for each wetland. Additional data points were collected for large wetlands and for changes in vegetative communities. Wetland Determination Data Sheets corresponding to each point can be found in Attachment 1.

Wetlands within the Segment 3 - Package 2 Project Corridor fall under the jurisdiction of the New York State Department of Environmental Conservation (NYSDEC) and/or the U.S. Army Corps of Engineers (USACE). The New York State methodology similarly recognizes the evaluation of the three wetland parameters of vegetation, soils, and hydrology; however, under the New York State methodology the hydrophytic vegetation criterion is mandatory, while the other two parameters are not (Browne et. al. 1995). Wetlands regulated by NYSDEC must be at least 12.4 acres (5 hectares) in size, unless they are deemed to have unusual local importance (Article 24 FWW). The NYSDEC publishes maps of wetland areas under state jurisdiction; however, both agencies use field delineation to determine the precise boundaries of these wetland areas.

Prior to actual field delineations for wetland resources, CHA reviewed USGS 7.5-minute topographic maps, aerial photographs, National Wetland Inventory (NWI) mapping, United States Department of Agriculture (USDA) Natural Resources Conservation Service (NRCS) soil mapping, NYSDEC freshwater wetlands mapping to identify potential wetland features present within the Project Corridor. More importantly, CHA used the previous wetland delineation prepared for this Project Corridor for the purposes of verifying and modifying the previous delineation. Wetland scientists from CHA and GPI conducted wetland delineations from October 2021 to March 2023. Refer to Attachment 2 for NWI and NYSDEC Freshwater Wetlands & Stream Mapping and Attachment 3 for NRCS Soil Mapping.

Waterbodies within the Project Corridor were identified by the presence of an ordinary high-water mark (OHWM) or stream channel. Delineation and flagging were completed to identify the OHWM for most perennial and intermittent streams. Bankfull width and depth were estimated in the field.

This report documents the wetlands and waterbodies potentially under federal and State jurisdiction that were identified in the Segment 3 - Package 2 Project Corridor along the current proposed underground transmission cable route. Summaries of wetlands that were identified are provided in Table 4-1 in Attachment 4. Wetlands and Waterbodies Delineation Mapping is

included in Attachment 5. Wetland determination data forms and photographic documentation of the wetlands are included in Attachment 1.

#### 4.0 WETLAND & WATERBODIES DELINEATION RESULTS

A total of 70 wetland areas were identified within the Project Corridor totaling approximately 46.3 acres. Table 4-1 in Attachment 4 provides a summary of the wetlands identified along the Project Corridor, including their classification in accordance with Cowardin et al. (1979) and their state or federal jurisdiction. Of these, five (5) wetlands (CBZ, CGZ, GP2-D, P2-CA and G-R-RR) along the Project Corridor correspond with two (2) wetlands mapped by the NYSDEC (FA-13 & HF-10).

Narrative descriptions of wetland vegetation, hydrology, and soils observed within the Project survey area are presented in the following sections. The wetlands delineated within the surveyed areas are summarized in Table 4-1. Table 4-2 summarizes the waterbodies identified within the surveyed areas. Table 4-3 provides the soil series information assembled for the Project Corridor. Refer to Attachment 4 for each of these tables. The Wetlands and Waterbodies Delineation Mapping provided in Attachment 5, displays the locations of delineated wetlands and waterways. Photographs of the waterbodies can be found in Attachment 6.

#### 4.1 VEGETATION

Vegetative communities within wetlands are described according to *Ecological Communities of New York State, Second Edition* (Edinger 2014)<sup>1</sup> and *Classification of Wetlands and Deepwater Habitats of the United States* (Cowardin 1979)<sup>2</sup>. Using this hierarchical wetland classification system three primary cover types were identified for vegetated wetlands in the Project Corridor:

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<sup>&</sup>lt;sup>1</sup> Edinger, G. J., D. J. Evans, S. Gebauer, T. G. Howard, D. M. Hunt, and A. M. Olivero (editors). 2014. *Ecological Communities of New York State*. Second Edition. A revised and expanded edition of Carol Reshke's *Ecological Communities of New York State*. New York Natural Heritage Program, New York State Department of Environmental Conservation, Albany, NY.

<sup>&</sup>lt;sup>2</sup> Cowardin, L. M., V. Carter, F. C. Golet, E. T. LaRoe, 1979. *Classification of wetlands and deepwater habitats of the United States*. U. S. Department of the Interior, Fish and Wildlife Service, Washington, D.C.

palustrine emergent (PEM), palustrine scrub-shrub (PSS), and palustrine forested (PFO) wetlands. Some wetlands contained co-dominant emergent, scrub-shrub, or forested vegetation. Open water areas were identified as palustrine unconsolidated bottom (PUB).

#### 4.1.1 Palustrine Emergent Wetland

The palustrine emergent wetland cover type is characterized by erect, rooted, herbaceous hydrophytes, excluding mosses and lichens (Cowardin et. al., 1979). The freshwater emergent wetlands along the Project Corridor primarily include shallow emergent marshes, deep emergent marshes, common reed/purple loosestrife marshes, and ditch/artificial intermittent stream channels (Edinger et. al., 2014). PEM wetlands occur as a single dominant wetland cover type, and as a codominant wetland type when other plant community types exist within the wetland.

Shallow emergent marshes occur on mineral soils or deep muck soils that are permanently saturated and seasonally flooded. Water depths range from 6 inches to 3.3 feet during flood stages (Edinger et. al., 2014). Characteristic vegetation of shallow emergent marshes within the Project Corridor includes cattails (*Typha* spp.), sedges (*Carex* spp.), goldenrods (*Solidago* spp.), riverbank wild rye (*Elymus riparius*), field horsetail (*Equisetum arvense*), sensitive fern (*Onoclea sensibilis*), and soft rush (*Juncus effusus*). Invasive species observed within the shallow emergent marshes include common reed (*Phragmites australis*) and purple loosestrife (*Lythrum salicaria*).

Deep emergent marshes occur on mineral soils or fine-grained organic soils with water depths ranging from 6 inches to 6.6 feet (Edinger et. al., 2014). Emergent vegetation observed within deep emergent marshes in the Project Corridor includes cattails and bulrushes (*Scirpus spp.*). Common reed and purple loosestrife were observed within some of the deep emergent marshes within the Project Corridor.

Common reed/purple loosestrife marshes consist of disturbed marshes where common reed or purple loosestrife has become dominant (Edinger et. al., 2014). This community was commonly found within disturbed areas adjacent to the CP rail bed.

The ditch/artificial intermittent stream community consists of artificial waterways constructed for drainage or irrigation (Edinger et. al., 2014). Vegetation within the ditches is typically dominated

by grasses and sedges. Invasive species such as common reed, purple loosestrife, and reed canary grass are commonly found within the ditches along the railroad and road ROWs.

#### 4.1.2 Palustrine Scrub-Shrub Wetland

The scrub-shrub wetland cover type includes areas that are dominated by saplings and shrubs that are less than 20 feet tall (Cowardin et. al., 1979). Scrub-shrub wetlands along the Project Corridor were dominated by speckled alder (*Alnus incana*), red osier dogwood (*Cornus sericea*), silky dogwood (*Cornus amomum*), gray dogwood (*Cornus racemosa*), and honeysuckle (*Lonicera spp.*). Other vegetation observed includes green ash (*Fraxinus pennsylvanica*), American cranberry bush (*Viburnum trilobum*), smooth arrowwood (*Viburnum dentatum*), common winterberry (*Ilex verticillata*), and white meadowsweet (*Spirea alba*). Invasive species observed within scrub-shrub wetlands includes honeysuckle and common buckthorn (*Rhamnus cathartica*). PSS wetlands occur as a single dominant wetland cover type, and as a co-dominant wetland type when other plant community types exist within the wetland.

#### 4.1.3 Palustrine Forested Wetland

Forested wetland cover types are dominated by trees and shrubs that have developed a tolerance to a seasonal high-water table. For a community to be characterized as forested, a wetland must be dominated by trees and shrubs that are at least six meters tall (Cowardin et. al., 1979). Forested wetlands typically have a mature tree canopy, and depending upon the species and density, can have a broad range of understory and groundcover community components. Forested wetland communities along the Project Corridor include red maple hardwood swamps and floodplain forest (Edinger et al., 2014). PFO wetlands occur as a single dominant wetland cover type, and as a codominant wetland type when other plant community types exist within the wetland.

Red maple-hardwood swamps occur in poorly drained depressions, usually on inorganic soils. Red maple is either the only dominant tree species or is codominant with one or more hardwoods (Edinger et. al, 2014). Hardwood species observed within this community type within the Project Corridor include green and white ash (*Fraxinus pennsylvanica* and *F. americana*), American elm (*Ulmus americana*), red maple (*Acer rubrum*), eastern cottonwood (*Populus deltoides*), swamp white oak (*Quercus bicolor*), red maple (*Acer rubrum*), speckled alder, and black willow (*Salix nigra*). Shrub species commonly observed within red maple-hardwood swamps in the Project

Corridor include dogwoods, speckled alder, willows (*Salix* spp.), and honeysuckle. The herbaceous layer typically includes sensitive fern, tussock sedge (*Carex stricta*), goldenrods, and field horsetail. Invasive species observed within red maple-hardwood forests included honeysuckle, buckthorn, and purple loosestrife.

Floodplain forests typically occur on mineral soils on low terraces of river floodplains and river deltas (Edinger et al., 2014). Tree species observed within this community type in the Project Corridor include green ash, American elm, speckled alder, and common buckthorn. Shrubs included dogwoods, honeysuckle, speckled alder, and nannyberry (*Viburnum lentago*). Sensitive fern, goldenrods, horsetail (*Equisetum* spp.), and moneywort (*Lysimachia nummularia*) were commonly found in the herbaceous layer. Invasive honeysuckles and buckthorns were also observed in floodplain forests within the Project Corridor.

#### 4.1.4 Open Water

Besides vegetated wetlands, a couple scattered small ponds are located along the transmission cable corridor, adjacent to the railroad and road ROWs as are streams and the Champlain Canal. As previously noted, open water communities are identified as palustrine unconsolidated bottom (PUB). This community is characterized by a vegetation cover of less than 30 percent, although there may often be emergent or shrubby vegetation bordering the open water areas (Edinger et. al., 2014). Characteristic species observed along the edges of these communities were narrow-leaf cattail (*Typha angustifolia*), common duckweed (*Lemna minor*) and a variety of sedge species. Pond substrates consist of be silt, mud, cobble, or sand.

#### 4.2 HYDROLOGY

#### 4.2.1 Streams

Table 4-2 lists the 20 streams (perennial [12], intermittent [8]) identified within the Project Corridor. The overland transmission cable route is located within the Lake Champlain Basin. The Lake Champlain Basin drains the area between the Adirondacks in New York and the Green Mountains in Vermont. Perennial waterbodies within the Project Corridor in this watershed include Halfway Creek, Bond Creek, and several unnamed tributaries to the Champlain Canal.

#### 4.2.2 Wetlands

Site hydrology was examined within each wetland and adjacent upland areas. Indicators of wetland hydrology included inundation (A1) or evidence of inundation (A2 & A3) (such as water-stained leaves (B9) or buttressed tree trunks), trees with shallow roots, saturation within the upper portion of the soil (A3) during the growing season, drainage patterns (B10) and drift lines within wetlands, sediment deposition (B2), and oxidized root channels (C3) in the upper 12 inches of soil (Attachment 1). Hydrologic factors contributing to the presence of wetland hydrology within wetlands in the Project Corridor included inundation with river, pond, or stream water, temporarily ponded runoff, and seasonally to permanently shallow groundwater tables.

Hydrology along the Project Corridor has been historically altered by road and railroad drainage ditches. CHA inspected these ditches for the presence or absence of wetland indicators and hydrologic connectivity to wetlands or streams. Ditches that met the three parameters for wetland delineation (i.e., presence of hydrology, hydric soils, and hydrophytic vegetation) were identified as a wetland community.

#### 4.3 SOILS

The USDA NRCS soil map units for the Project Corridor are provided in Attachment 3. Indicators of hydric soils included muck or evidence of gleyed colors such as histic epipedon (A2), black histic (A3), depleted below dark surface (A11), thick dark surface (A12), sandy redox (S5), dark surface (S7), thin dark surface (S9), loamy gleied matrix (F2), depleted matrix (F3) and redox dark surface (F6) (Attachment 1). Within the Project Corridor, a total of 37 different soil types are mapped by the NRCS. The mapped soil types range from excessively drained to very poorly drained soils. According to the National List of Hydric Soils prepared by the NRCS (2009), eight (8) of the soils mapped within the Project Corridor are classified as hydric soils (Carlisle muck, Catden muck, Covington silty clay loam, Limerick silt loam, Fluvaquents, Palms muck, Saco silt loam and Saprists, Aquepts, and Aquents). Hydric soils are defined 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 of the soil" (Federal Register, 1994). Table 4-3 summarizes the soil series in the Project Corridor and lists the soils that are classified as hydric (or associated with wetland hydrology) in the Project Corridor.

Many soils within the Project Corridor are formed from glacial parent materials including outwash, dense till, loose till, and glaciomarine deposits. In active floodplains, soils are formed in recent alluvium. Anthropogenically disturbed soils, associated with road and railroad construction and operation, are common within the Project Corridor. The disturbed soils consist of disturbed natural deposits or human transported materials.

# 4.4 NATURAL RESOURCE CONSERVATION SERVICE SOIL SERIES DESCRIPTIONS

The following are the abbreviated descriptions of each of the relevant soil types taken from the USDA Web Soil Survey (NRCS, USDA 2022). Soils survey mapping and additional information regarding relevant soil characteristics are provided in Attachment 3.

#### **Belgrade Series (BeB)**

These are very deep, moderately well drained soils formed in glaciolacustrine material. These soils are typically found on terraces. Slopes can range from 0 to 25 percent. The A horizon is typically a very dark grayish brown and very fine sandy loam, with weak fine granular structure, extending 0 to 9 inches deep. The B horizon generally is yellowish brown to brown very fine sandy loam with very weak fine and medium granular structure. This horizon also has fine roots and can be slightly acidic. The C horizon is mixed light olive brown and gray very dine sandy loam to loamy fine sand, with massive common lenses of fine sand and masses of iron accumulation.

#### Carlisle Series (Ca)

These deep and very poorly drained organic soils are formed in woody fibrous material that accumulated in waterlogged bogs. They are nearly level and are found in depressions within glaciated uplands, lake plains, and outwash plains. The surface layer is black organic material 10 inches thick. Below this layer is a 15-inch layer of black, massive, well decomposed organic material. The following 49 inches is composed of dark reddish-brown, massive, well-decomposed organic material. From a depth of 74 to 80 inches is very dusky red, massive, neutral, fibrous organic material. Below 80 inches is a 6-inch layer of light gray, slightly sticky and slightly plastic, calcareous marl and 24 inches of dark-dray, massive, slightly sticky and slightly plastic, calcareous silt.

#### Catden Series (Ca)

These organic/muck soils are characterized as very deep and very poorly drained. They are formed in highly decomposed woody and herbaceous organic materials in depressions on till plains, lake plains, outwash plains, and flood plains. Saturated hydraulic conductivity is moderately high or high with slopes ranging from 0 to 2 percent. The organic material may extend to a depth of 51 inches or more, and surface tiers are characterized with hues of 5YR to 2.5Y, or neutral, values of 1 to 4 and chromas of 0 to 6. It is dominantly muck (sapric material); however, some pedons have surface layers of peat (fibric material) or mucky peat (hemic material). The structure of the surface tier is weak or medium, coarse to fine granular, platy, subangular blocky, or is massive. Subsurface and bottom tiers have hues, values and chromas that are similar to the surface layers.

#### Claverack Series (CIA & CIB)

These are very deep, moderately well drained soils formed in sandy deposits that overlie clayey lacustrine sediments. They are nearly level to sloping soils in shallow deltas on lake plains. The sand, which overlies finer textured sediments, is dominated by quartz and has been derived primarily from non-calcareous sandstone or granite. Slope ranges from 0 to 15 percent. Typically, the A horizon consists of a fine sand and is usually a dark grayish brown color. The B horizon consists of structureless sand. In some places, the lower part of the B horizon has gray or grayish brown redoximorphic features below a depth of 18 inches. The C horizon is a silty clay loam or clay with some sub-horizons of silt or loam, up to 5 inches thick.

#### Cosad Series (Cs)

These are very deep, somewhat poorly drained soils formed in sandy deposits that overlie clayey lacustrine sediments. They are nearly level soils typically found on lake plains. Slopes range from 0 to 8 percent. The A horizon consists of very dark brown loamy fine sand with weak medium to coarse granular structure, to a depth of 9 inches. The B horizon is a brown to pale brown loamy fine sand with few roots and a very thick very weak platy structure, extending to a depth of 30 inches. The C horizon is typically reddish-brown silty clay; moderate very thick plate-like divisions with horizontal faces along depositional varves; faces of plates coated with light gray silt; very firm, sticky; few roots; few fine pores; common medium prominent strong brown soft

masses of iron accumulation, and distinct gray areas of iron depletion; moderately alkaline, strongly effervescent. The C horizon may extend to a depth of 72 inches.

#### **Covington Series (Cv)**

These are very deep and poorly drained soils formed in calcareous clayey glacio-lacustrine or glacio-estuarine deposits on glacial lake plains. These soils are found on broad plains, depressions, and drainageways. Slopes range from 0 to 8 percent. The A horizon consists of very dark brown silty clay or silty clay loam with granular or blocky structure, to a depth of 8 inches. The B horizon is dark gray firm to very firm, sticky or plastic clay with thin sub-horizons of silty clay, extending to a depth of 33 inches. High chroma redoximorphic features are typical of this horizon. The C horizon is typically dark gray firm to very firm, sticky or plastic clay or silty clay, although silt and silt loam varves alternate with clay varves in some pedons. The C horizon may extend to a depth of 65 inches and has redoximorphic features similar to that of the B horizon.

#### Farmington Series (FCC, FCF & FaB)

These are shallow, well drained, and somewhat excessively drained soils formed in till. Slopes range from 0 to 70 percent. The A horizon is dark grayish brown silt loam with granular structure. The B horizon is composed of a yellowish-brown silt loam 6-inches thick, followed by 4-inches of brown loam with redoximorphic features. The texture is very fine sandy loam to silt loam, and the structure is granular to subangular blocky. The R horizon is limestone, dolomite, or dolomitic limestone bedrock.

#### Fluvaquents (FL)

These are deep, level or nearly level, moderately well drained, low lime, sandy soils formed in glacial outwash. The available water capacity is low to moderate. Permeability is rapid.

#### Fredon Series (Fr)

These are very deep, poorly, and somewhat poorly drained soils formed in glaciofluvial materials. Fredon soils are typically found on outwash terraces and outwash plains. Slope ranges from 0 to 8 percent. The A horizon consists of very dark gray silt loam with weak fine granular structure, to a

depth of 7 inches. The B horizon is dark grayish brown to gray silt loam with weak coarse and very coarse prismatic structure parting to moderate fine subangular blocky structure, extending to a depth of 22 inches. The C horizon is typically dark grayish brown to very dark grayish brown gravelly loamy sand to very gravelly sand, consisting of 40 percent rock fragments. The C horizon may extend to a depth of 80 inches.

#### Hartland Series (HcA, HcB, HcC & HcD)

These are deep, well-drained medium texture soils formed in water-sorted silt and very fine sand and occur typically in cultivated areas. Slopes range from 0 to 20 percent. The A horizon is up to 10 inches deep and consists of a dark brown very fine sandy loam with a very weak, fine granular structure. The B horizon is up to 5 inches deep with a yellowish-brown color with a weak, medium, subangular, blocky structure. Depth to bedrock is more than 6 feet.

#### **Hollis Series (HLE & HNC)**

These are shallow, somewhat excessively drained soils formed in glacial till. Slopes range from 0 to 60 percent. The A horizon is dark brown loam 4 inches thick with weak granular structure. The upper 4 inches of the B horizon is strong-brown sandy loam, and the lower 11 inches are yellowish-brown fine sandy loam. The B horizon has weak granular or weak blocky structure. Bedrock is at a depth of 19 inches.

#### **Hudson Series (HWE, HvC)**

These are very deep, moderately well drained soils formed in clayey and silty lacustrine sediments. These soils are in convex lake plains, lacustrine capped uplands, and on lower valley side-slopes. Slopes can range from 0 to 60 percent. The A horizon is typically brown silt loam and silty clay loam, with granular structure, extending 5 to 12 inches deep. The E horizon, when present, consists of faintly mottled brown, very fine sandy loam or silt loam with blocky or platy structure. The B horizon generally is firm yellowish brown to brown silty clay with moderate or strong blocky structure and may have medium to very coarse prisms. Low and high-chroma redoximorphic features are present but may be faint or absent in the shallower portions. The C horizon is mixed grayish brown and light olive brown silty clay, with massive structure, or plate-like divisions.

#### **Kingsbury Series (KbA & KbB)**

These are very deep, somewhat poorly drained soils formed in clayey glacio-marine or glacio-lacustrine sediments. They are nearly level or gently sloping, ranging from 0 to 8 percent slope. The A horizon is typically very dark grayish brown silt loam, and texture can range from very fine sandy loam to clay. This horizon has granular or blocky structure. The E horizon generally is mixed brown and yellowish-brown silty clay but can be silt loam or very fine sandy loam, with blocky to platy structure. Redoximorphic features occur throughout. The B horizon typically consists of dark grayish brown clay, mixed with yellowish brown clay in the shallower portions. Typically, it has greater than 50 percent redoximorphic depletions on ped faces with concentrations in ped interiors. This horizon generally has blocky structure, within coarse or very coarse prisms. The C horizon generally has similar color to the deeper portions of the B horizon, although redoximorphic features generally have lower contrast. This horizon ranges from silty clay loam to clay in texture, and has massive structure, which, when disturbed, can part into aggregates resembling very fine blocky structure.

#### **Limerick Series (Lm)**

These are deep, poorly drained soils formed in alluvial deposits of silt and very fine sand. They are nearly level and are found in low areas on flood plains. The A horizon is very dark grayish brown about 3 inches thick. The structure of the A horizon is granular. The C horizon is typically a silt loam or very fine sandy loam that extends to a depth of 50 inches or more. The C horizon has grayish brown redoximorphic features to a depth of 14 inches, olive gray redoximorphic features between depths of 14 and 26 inches, and gray redoximorphic features below 26 inches. The C horizon is massive or has a subangular blocky or granular structure.

#### Nassau Series (NAC)

These are shallow, somewhat excessively drained soils formed in channery till derived from acid shale and slate. They are nearly level to very steep soils that overlie shale bedrock at depths of 10 to 20 inches. They are found on summits, shoulders, and backslopes of ridges and hills on glaciated uplands. Slopes range from 0 to 70 percent. The A horizon is dark brown channery silt loam with dry, weak fine granular structure to a depth of 3 inches. The B horizon is composed of a yellowish-

brown very channery silt loam 13-inches thick with weak fine subangular blocky structure. The R horizon is hard brown and greenish gray folded shale interbedded with red and green shale.

#### Oakville Series (OKE, OaB & OaC)

These are very deep and well drained or moderately well drained soils that were formed in water-sorted sand on glacial outwash plains, lake plains, and beach ridges. Slopes range from 0 to 35 percent. The A horizon is dark yellowish brown with a loamy fine sand texture and granular structure. The B horizon is yellowish brown loamy fine sand with subangular blocky structure. The C horizon is typically yellowish brown with a sand or loamy fine sand texture.

#### **Orthents and Psamments (OP)**

This map unit consists of material dredge and pumped from the Hudson River and Champlain Barge Canal. The material is composed of a variable mixture of dominantly fine gravel and sand and some silt and clay.

#### Palms Series (Pm)

These are very deep and very poorly drained soils formed in herbaceous organic materials 16 to 51 inches thick. They are found in the underlying loamy deposits in closed depressions on moraines, lake plains, till plains, outwash plains, hillside seep areas, and on backswamps of flood plains. Slopes range from 0 to 6 percent. The surface layer is black broken face and rubbed muck (sapric material), moderate medium granular structure, slightly sticky, about 20 to 25 percent mineral material, to a depth of 14 inches. Below this layer is a 14-inch layer of black, massive parting to weak coarse subangular blocky structure, slightly sticky, 10 to 20 percent mineral material. The following 7 inches is composed of black rubbed muck, massive, slightly sticky; 10 to 20 percent mineral material. From a depth of 35 to 80 inches is gray clay loam composed of massive, friable, common medium distinct dark yellowish-brown masses of oxidized iron in the matrix, neutral in upper part, slightly effervescent, and moderately alkaline in lower part.

#### **Palatine Series (PaB)**

These are moderately deep, well drained, and somewhat excessively drained soils formed in till with a high component of black, very dark brown, or very dark gray shale. They are nearly level to very steep soils on glacially modified, bedrock-controlled landforms. Shale bedrock is at depths of 20 to 40 inches. Slopes range from 0 to 60 percent. The A horizon is very dark grayish brown silt loam, dry, moderate medium granular structure to a depth of 11 inches. The B horizon is very dark grayish brown channery silt loam, weak medium and fine granular structure, extending to a depth of 18 inches. The C horizon is typically very dark grayish brown very channery silt loam, massive, friable, common roots, 50 percent rock fragments, mainly black shale arranged in bedding planes, and calcareous. The C horizon may extend to a depth of 28 inches. The R horizon is very dark grayish brown calcareous shale bedrock, few roots in within the upper part. The R horizon may be encountered at a minimum depth of 28 inches.

#### Pits, quarry (Ps)

This soil unit consists of areas of bedrock that have been excavated for stone, mostly granite to be used for construction materials. These soils are somewhat excessively drained. The walls and floor of the quarry are typically rock. Areas of this unit are irregular in shape and range from about 5 to 70 acres. Most are smaller than 25 acres. Some parts of this unit, especially the steep banks, have little or no vegetation. These areas have sparse vegetation consisting of xerophytic plants. Other areas are covered with native species. The lack of soil material in the areas of this unit make the unit poorly suited to most uses. Use of the unit requires onsite investigation and evaluation.

#### Saco Series (Sa)

These are very deep, very poorly drained soils formed in recent alluvium on floodplains. Slopes range from 0 to 2 percent. The A horizon is very dark grayish brown silt loam or very fine sandy loam, or their mucky analogs. It is massive or has weak granular structure. Strong brown and grayish brown redoximorphic features are present beginning at a depth of 10 inches. The C horizon is grayish brown or olive gray with a silt loam or very fine sandy loam texture above a depth of 40 inches and loamy fine sand to very gravelly coarse sand texture below 40 inches. The C horizon is massive or has weak structure.

#### Saprists, Aquepts, and Aquents (SB)

These soils consist of low-lying, level deposits of organic and mineral soil material that is ponded with shallow water most of the year. They are mainly found around the edges of lakes and ponds.

#### Vergennes Series (VeB, VeC & VeD)

These are very deep, moderately well drained soils formed in calcareous estuarine and glacio-lacustrine clays. They are on broad plains and on the tops and side-slopes of hills and ridges, with slopes ranging from 0 to 50 percent. The A horizon is generally dark grayish brown clay that has blocky structure. Occasionally, a clay, silty clay, silty clay loam, or silt loam E horizon is present. The B horizon is typically brown clay, with more dark grayish brown color with depth. The C horizon is generally clay with silt and silty clay varves.

#### **Wallington Series (Wa)**

These are very deep, somewhat poorly drained soils formed in silty lacustrine deposits. Typically occurring on lake plains and silt-covered uplands. They are on lacustrine plains or basins that are nearly level or gently sloping soils that range from 0 to 8 percent slope. The A horizon is generally very dark grayish brown silt loam that has fine and medium granular structure. A pinkish gray silt loam is present in the E horizon. The B horizon is typically brown silt loam, with more dark brown grayish color with depth. The C horizon is generally very fine sandy loam.

#### 5.0 SUMMARY

Wetlands identified along the Project Corridor include shallow emergent marshes, deep emergent marshes, common reed/purple loosestrife marshes, scrub-shrub wetlands, and forested wetlands such as red maple-hardwood swamps and floodplain forests. Small ponds, artificial ditches, and watercourses, including small intermittent tributaries to the Champlain Canal, occur within the Project Corridor.

Land use in the Project Corridor is diverse, ranging from rural, agricultural, and forested areas to more developed hamlet residential landscapes. In general, because the Project Corridor is routed along existing railroad corridors and local roads, many wetlands within the Project Corridor are

characterized by previous anthropogenic disturbance and/or the presence of invasive plant species. The Project Corridor is located along the edge between the disturbed railroad or road ROW and more natural vegetated wetland communities that are present adjacent to the railroad and highway rights-of-way. However, there are locations throughout where the corridor diverges from the railroad interface into undeveloped land, fields, etc., in order to accommodate many constraints such as required setbacks, utilities, and difficult terrain.

Confirmation of the wetland boundaries are the responsibility of the involved regulatory agencies with jurisdiction over wetlands and waterbodies within this Phase of the overall project. As previously noted, wetlands within Segment 3 Package 2 are regulated by USACE (Section 10/404) and NYSDEC (Article 24). Streams and other waterbodies are regulated by USACE (Section 10/404). Based on review of the NYSDEC wetland mapping, 5 delineated wetlands (CBZ, CGZ, GP2-D, P2-CA and G-R-RR) areas are identified as regulated under Article 24. These wetlands correspond to 2 mapped wetlands regulated by NYSDEC (FA-13 & HF-10). It is anticipated that USACE will take jurisdiction over all the wetlands delineated within the Project Corridor. Final jurisdictional determinations will be made by the respective agencies.

#### 6.0 REFERENCES

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- United States Army Corps of Engineers. 2012. *Regional Supplement to the Corps of Engineers Wetland Manual: Northcentral and Northeast Region (Version 2.0).* ERDC/EL TR-12-1. Vicksburg, MS: U.S. Army Engineer Research and Development Center.

# ATTACHMENT 1 WETLAND DETERMINATION DATA SHEETS AND WETLAND PHOTOGRAPHS

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

Project/Site: CHPE	City/County: Whitehall / Washington Sampling Date: 11/15/21
Applicant/Owner: TDI	State: NY Sampling Point: WETCJJJ-2
Investigator(s): J. Greaves, C. Scrivner	Section, Township, Range:
Landform (hillside, terrace, etc.): Depression Local r	relief (concave, convex, none): Concave Slope %: 3
Subregion (LRR or MLRA): LRR R Lat: 43-28-37.13N	Long: _73-25-48.48W
Soil Map Unit Name: OP - Orthents and Psamments	NWI classification: PEM1
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes X No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly disturb	<del></del>
Are Vegetation, Soil, or Hydrologynaturally problemate	tic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sam	pling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes X No	Is the Sampled Area
Hydric Soil Present? Yes X No	within a Wetland? Yes X No
Wetland Hydrology Present? Yes X No	If yes, optional Wetland Site ID: Near Flag CJJJ-2
Palustrine Emergent Marsh - Cattail Marsh. Edinger classification: Shallow I	Emergent Marsh.
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
X Surface Water (A1) Water-Stained Leaves (B	Drainage Patterns (B10)
X High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)
X Saturation (A3) Marl Deposits (B15)	Dry-Season Water Table (C2)
Water Marks (B1) Hydrogen Sulfide Odor (C	C1) Crayfish Burrows (C8)
Sediment Deposits (B2)  X Oxidized Rhizospheres o	on Living Roots (C3) Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B3) Presence of Reduced Iro	on (C4) Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4) Recent Iron Reduction in	Tilled Soils (C6) X Geomorphic Position (D2)
Iron Deposits (B5) Thin Muck Surface (C7)	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remark	ks) Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8)	X FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes X No Depth (inches):	1
Water Table Present? Yes X No Depth (inches):	0
Saturation Present? Yes X No Depth (inches):	0 Wetland Hydrology Present? Yes X No
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, prev	vious inspections), if available:
Remarks:	

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

<u>Tree Stratum</u> (Plot size: 30' )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
Fraxinus pennsylvanica	2	No	FACW	
2.				Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)
3.				
				Total Number of Dominant Species Across All Strata: 2 (B)
5.				
6.				Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
7.				Prevalence Index worksheet:
	2	=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15' )		-		OBL species 100 x 1 = 100
1. Cornus sericea	35	Yes	FACW	FACW species 37 x 2 = 74
2. Cornus racemosa	5	No	FAC	FAC species 5 x 3 = 15
3.				FACU species 0 x 4 = 0
4.				UPL species 0 x 5 = 0
5.				Column Totals: 142 (A) 189 (B)
6.				Prevalence Index = B/A = 1.33
7.				Hydrophytic Vegetation Indicators:
	40	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5' )		_		X 2 - Dominance Test is >50%
1. Typha latifolia	95	Yes	OBL	X 3 - Prevalence Index is ≤3.0 <sup>1</sup>
2. Lythrum salicaria	5	No	OBL	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
3.				data in Remarks or on a separate sheet)
4.				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5.				<sup>1</sup> Indicators of hydric soil and wetland hydrology must be
6.				present, unless disturbed or problematic.
7				Definitions of Vegetation Strata:
8.				Tree – Woody plants 3 in. (7.6 cm) or more in diameter
9.				at breast height (DBH), regardless of height.
10				Sapling/shrub – Woody plants less than 3 in. DBH
11				and greater than or equal to 3.28 ft (1 m) tall.
12				Herb – All herbaceous (non-woody) plants, regardless
	100	=Total Cover		of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size:)				Woody vines – All woody vines greater than 3.28 ft in
1				height.
2				Understadie
3		_		Hydrophytic Vegetation
4		_		Present? Yes X No No
		=Total Cover		
Remarks: (Include photo numbers here or on a separa	ate sheet.)			

Sampling Point: WET CJJJ-2

**SOIL** Sampling Point: WET CJJJ-2

Depth	Matrix	o the dep		x Featur		tor or co	nfirm the absence of	indicators.)		
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks		
0-3	10YR 2/1	80	10YR 5/3	20	С	М	Loamy/Clayey	Distinct redox concentrations		
3-10	N 4/	78	10YR 2/1	2	С	М	Loamy/Clayey	Distinct redox concentrations		
			10YR 5/4	5	С	М		Prominent redox concentrations		
			10YR 4/6	15	С	PL		Prominent redox concentrations		
10-16	N 4/	70	10YR 5/3	20	С	M	Loamy/Clayey	Prominent redox concentrations		
			10YR 4/4	10	C	M		Prominent redox concentrations		
			1011( 4/4			101		1 Tohillett Tedax concentrations		
	oncentration, D=Depl	etion, RM-	=Reduced Matrix, M	S=Mask	ed Sand	Grains.		L=Pore Lining, M=Matrix.		
Hydric Soil I			Ball all a Ball	0 (	(00) (			or Problematic Hydric Soils <sup>3</sup> :		
Histosol	(A1) ipedon (A2)		Polyvalue Below		ce (S8) (I	LKK K,		rairia Paday (A16) (LRR K, L, MLRA 149B)		
Black His			Thin Dark Surfa	,	(LRR R	. MLRA 1	Coast Prairie Redox (A16) (LRR K, L, R)  49B)  5 cm Mucky Peat or Peat (S3) (LRR K, L, R)			
	n Sulfide (A4)		High Chroma S					ue Below Surface (S8) (LRR K, L)		
	Layers (A5)		Loamy Mucky N					rk Surface (S9) ( <b>LRR K, L</b> )		
X Depleted	Below Dark Surface	(A11)	X Loamy Gleyed	Matrix (F	<del>-</del> 2)		Iron-Manganese Masses (F12) (LRR K, L, R)			
Thick Da	rk Surface (A12)		Depleted Matrix	x (F3)			Piedmont Floodplain Soils (F19) (MLRA 149B)			
	lucky Mineral (S1)		Redox Dark Su	ırface (F	6)		Mesic Spodic (TA6) ( <b>MLRA 144A, 145, 149B</b> )			
	leyed Matrix (S4)		Depleted Dark		` '		Red Parent Material (F21)			
	edox (S5)		Redox Depress		3)		Very Shallow Dark Surface (F22)			
	Matrix (S6)		Marl (F10) ( <b>LR</b>	RK,L)			Other (Explain in Remarks)			
Dark Sur	face (S7)									
<sup>3</sup> Indicators of	hydrophytic vegetati	ion and we	etland hydrology mus	st be pre	esent, unl	less distu	rbed or problematic.			
	ayer (if observed):				•					
Type:										
Depth (ir	nches):						Hydric Soil Preser	nt? Yes_X No		
Remarks:	<u> </u>		<u></u>							

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

Project/Site: CHPE	City/County: Whitehall / Washington Sampling Date: 11/15/21
Applicant/Owner: TDI	State: NY Sampling Point: WETCJJ-9
Investigator(s): J. Greaves, C. Scrivner	Section, Township, Range:
Landform (hillside, terrace, etc.): Depression Local	relief (concave, convex, none): Convex Slope %: 2
Subregion (LRR or MLRA): LRR R Lat: 43-28-36.18N	Long: <u>73-25-46.79W</u> Datum: <u>WGS 84</u>
Soil Map Unit Name: OP - Orthents and Psamments	NWI classification: PEM1
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes X No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly disturb	
Are Vegetation , Soil , or Hydrology naturally problems	
	npling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes X No	Is the Sampled Area
Hydric Soil Present? Yes X No	within a Wetland? Yes X No
Wetland Hydrology Present? Yes X No	If yes, optional Wetland Site ID: Near Flag CJJJ-9
Palustrine Emergent Marsh - Common reed marsh. Edinger classification: (	Common Reed Marsh.
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) Water-Stained Leaves (I	<u> </u>
High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)
X Saturation (A3) Marl Deposits (B15)	Dry-Season Water Table (C2)
Water Marks (B1)  Hydrogen Sulfide Odor (	
Sediment Deposits (B2)  X Oxidized Rhizospheres (CR)	<u> </u>
Drift Deposits (B3) Presence of Reduced Iro	· /
Algal Mat or Crust (B4)  Iron Deposits (B5)  Recent Iron Reduction in Thin Muck Surface (C7)	
Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Thin Muck Surface (C7) Other (Explain in Remar	
Sparsely Vegetated Concave Surface (B8)	X FAC-Neutral Test (D5)
	A FACTIVE UITAL TEST (D3)
Field Observations:	
Surface Water Present? Yes No X Depth (inches):	
Water Table Present?       Yes       No       X       Depth (inches):         Saturation Present?       Yes       X       No       Depth (inches):	
(includes capillary fringe)	Wedand Hydrology Fresent: Fes No
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	
Dosonibo (tooordoo Daid (oliodin gaago, monitoling 1.5, actial prizate, p. 2	vious inspections), ii availasie.
Remarks:	

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

Tree Stratum (Plot size:)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1		·		Number of Dominant Species That Are OBL, FACW, or FAC: (A)
3				Total Number of Dominant Species Across All Strata:(B)
<ul><li>5.</li><li>6.</li></ul>				Percent of Dominant Species That Are OBL, FACW, or FAC:(A/B)
7.				Prevalence Index worksheet:
		=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size:)				OBL species 0 x 1 = 0
1. Cornus amomum	5	Yes	FACW	FACW species 105 x 2 = 210
2.				FAC species 0 x 3 = 0
3.				FACU species 3 x 4 = 12
4				UPL species0 x 5 =0
5				Column Totals: 108 (A) 222 (B)
6.				Prevalence Index = B/A = 2.06
7				Hydrophytic Vegetation Indicators:
	5	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5' )				X 2 - Dominance Test is >50%
1. Phragmites australis	100	Yes	FACW	X 3 - Prevalence Index is ≤3.0 <sup>1</sup>
2.				4 - Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)
4.				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
<ul><li>5.</li><li>6.</li></ul>		·		<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
7.				Definitions of Vegetation Strata:
9.				<b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
10 11				Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
12.				Herb – All herbaceous (non-woody) plants, regardless
	100	=Total Cover		of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size: 30')		•		Mandustines All woods wines greater them 2.20 ft in
Vitis aestivalis	3	No	FACU	<b>Woody vines</b> – All woody vines greater than 3.28 ft in height.
2.				
3.				Hydrophytic Vegetation
4				Present?
	3	=Total Cover		
Remarks: (Include photo numbers here or on a separ-	ate sheet.)			

Sampling Point: WET CJJJ-9

SOIL Sampling Point: WET CJJJ-9

Depth	Matrix			x Featur	es		onfirm the absence of	•	
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks	
0-6	10YR 3/1	96	10YR 4/2	2	С	M	Loamy/Clayey	Faint redox concentrations	
			10YR 5/6	2	С	Pl		Prominent redox concentrations	
6-16	2.5Y 4/1	60	10YR 4/6	20	С	M	Mucky Loam/Clay	Prominent redox concentrations	
			10YR 5/4	20	С	М		Prominent redox concentrations	
			•						
			-						
1T.may C. Ca			Dadwood Motrix M			Crains	2l acation, Di	L. Doro Lining M. Matrix	
Hydric Soil I	oncentration, D=Deple	etion, Rivi	=Reduced Matrix, Mi	5=Mask	ea Sana	Grains.		L=Pore Lining, M=Matrix.  or Problematic Hydric Soils <sup>3</sup> :	
Histosol			Polyvalue Belo	w Surfac	ce (S8) ( <b>I</b>	_RR R,		ick (A10) (LRR K, L, MLRA 149B)	
	pipedon (A2)		MLRA 149B	)				rairie Redox (A16) (LRR K, L, R)	
Black Hi	stic (A3)		Thin Dark Surfa	ace (S9)	(LRR R	, MLRA 1	5 cm Mucky Peat or Peat (S3) (LRR K, L, R)		
Hydroge	n Sulfide (A4)		High Chroma S	ands (S	11) ( <b>LRF</b>	R K, L)	Polyvalu	e Below Surface (S8) (LRR K, L)	
Stratified	Layers (A5)		Loamy Mucky I	Mineral (	F1) ( <b>LRF</b>	R K, L)	Thin Dar	k Surface (S9) (LRR K, L)	
	Below Dark Surface	(A11)	Loamy Gleyed Matrix (F2)				Iron-Manganese Masses (F12) (LRR K, L, R)		
	ark Surface (A12)		X Depleted Matrix					nt Floodplain Soils (F19) (MLRA 149B)	
	lucky Mineral (S1)		X Redox Dark Su					podic (TA6) ( <b>MLRA 144A, 145, 149B</b> )	
	leyed Matrix (S4)		Depleted Dark Surface (F7)  Redox Depressions (F8)				Red Parent Material (F21)		
	edox (S5)				3)		Very Shallow Dark Surface (F22)		
	Matrix (S6)		Marl (F10) ( <b>LRR K, L</b> )				Other (Explain in Remarks)		
Dark Sui	face (S7)								
<sup>3</sup> Indicators of	hydrophytic vegetation	on and w	etland hydrology mus	st be pre	sent, unl	ess distu	ırbed or problematic.		
	_ayer (if observed):								
Type:									
Depth (ir	nches):						Hydric Soil Presen	nt? Yes X No	
Remarks:									



Wetland CJJJ-9 View facing northwest



Wetland CJJJ-9 Soils

Segment 3 - Package 2

# **SITE PHOTOGRAPHS**

**Champlain Hudson Power Express** 

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

Project/Site: CHPE	City/County: Whitehall / Washington Sampling Date: 11/15/21
Applicant/Owner: TDI	State: NY Sampling Point: WET CJJJ-18
Investigator(s): J. Greaves, C. Scrivner	Section, Township, Range:
Landform (hillside, terrace, etc.): Depression Local r	relief (concave, convex, none): Concave Slope %: 2
Subregion (LRR or MLRA): LRR R Lat: 43-28-33.37N	Long: 73-25-46.23W Datum: WGS 84
Soil Map Unit Name: OP - Orthents and Psamments	NWI classification: PSS1
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes X No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly disturb	ped? Are "Normal Circumstances" present? Yes X No
Are Vegetation , Soil , or Hydrology naturally problemat	atic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sam	
Hydrophytic Vegetation Present? Yes X No	Is the Sampled Area
Hydric Soil Present? Yes X No	within a Wetland? Yes X No
Wetland Hydrology Present? Yes X No	If yes, optional Wetland Site ID: Near Flag CJJJ-18
Palustrine Scrubshrub Wetland. Edinger classification: Shrub Swamp.	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
X Surface Water (A1) Water-Stained Leaves (B	
X High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)
X Saturation (A3) Marl Deposits (B15)	Dry-Season Water Table (C2)
Water Marks (B1) Hydrogen Sulfide Odor (C	
Sediment Deposits (B2)  Oxidized Rhizospheres o	
Drift Deposits (B3) Presence of Reduced Iro	` '
Algal Mat or Crust (B4)  Iron Deposits (B5)  Recent Iron Reduction in Thin Muck Surface (C7)	
Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Thin Muck Surface (C7) Other (Explain in Remark	Shallow Aquitard (D3)  Ks)  Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8)	X FAC-Neutral Test (D5)
	A I NOTIGUILLI 1001 (DO)
Field Observations:  Surface Water Present? Ves. V. No. Donth (inches):	
Surface Water Present? Yes X No Depth (inches): Water Table Present? Yes X No Depth (inches):	
Saturation Present? Yes X No Depth (inches):  Output  Depth (inches):  Depth (inches):	
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, prev	vious inspections), if available:
Remarks:	
Tomane.	

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

Tree Stratum (Plot size: 30' )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. Fraxinus pennsylvanica	10	Yes	FACW	Number of Deminant Chasins
2. Populus deltoides	5	Yes	FAC	Number of Dominant Species That Are OBL, FACW, or FAC: (A)
3. 4.				Total Number of Dominant Species Across All Strata:6(B)
5				Percent of Dominant Species
6.				That Are OBL, FACW, or FAC: 83.3% (A/B)
7				Prevalence Index worksheet:
	15	=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size:)				OBL species 3 x 1 = 3
1. Cornus sericea	70	Yes	FACW	FACW species 100 x 2 = 200
2. Lonicera morrowii	15	No	FACU	FAC species10 x 3 =30
3.				FACU species 25 x 4 = 100
4.				UPL species 0 x 5 = 0
5.				Column Totals: 138 (A) 333 (B)
6.				Prevalence Index = B/A = 2.41
7.				Hydrophytic Vegetation Indicators:
	85	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5' )				X 2 - Dominance Test is >50%
1. Solidago gigantea	10	Yes	FACW	X 3 - Prevalence Index is ≤3.0 <sup>1</sup>
Cornus amomum	10	Yes	FACW	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
Symphyotrichum ericoides	5	No	FACU	data in Remarks or on a separate sheet)
Cornus racemosa	<u>5</u>	No	FAC	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5. Carex vulpinoidea	3	No	OBL	<u> </u>
6.		140		<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
7				Definitions of Vegetation Strata:
8.				Tree – Woody plants 3 in. (7.6 cm) or more in diameter
9.				at breast height (DBH), regardless of height.
10.				Sapling/shrub – Woody plants less than 3 in. DBH
11				and greater than or equal to 3.28 ft (1 m) tall.
12.				Herb – All herbaceous (non-woody) plants, regardless
	33	=Total Cover		of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size: 30')				Woody vines – All woody vines greater than 3.28 ft in
1. Vitis aestivalis	5	Yes	FACU	height.
2				
3.				Hydrophytic Vegetation
4.				Present? Yes X No
	5	=Total Cover		
Remarks: (Include photo numbers here or on a separa	ate sheet.)			
(	,			

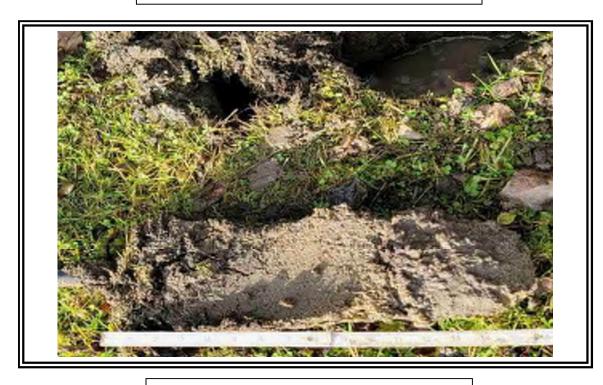
Sampling Point: WET CJJJ-18

**SOIL** Sampling Point: WET CJJJ-18

Depth	Matrix			x Featur			nfirm the absence of indi	<b>-</b>	
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks	
0-5	10YR 2/1	90	7.5YR 4/6	10	С	М	Sandy	Prominent redox concentrations	
5-16	N 4/	60	10YR 5/3	30	С	M	Sandy	Prominent redox concentrations	
			10YR 4/6	10	С	М		Prominent redox concentrations	
							·		
<sup>1</sup> Type: C=Co	oncentration, D=Depl	etion, RM	=Reduced Matrix, M	S=Mask	ed Sand	Grains.	<sup>2</sup> Location: PL=P	ore Lining, M=Matrix.	
Hydric Soil	Indicators:							roblematic Hydric Soils <sup>3</sup> :	
Histosol			Polyvalue Belo		ce (S8) (I	LRR R,		A10) ( <b>LRR K, L, MLRA 149B</b> )	
	pipedon (A2)		MLRA 149B	,	/I DD D	MIDAA	Coast Prairie Redox (A16) (LRR K, L, R)		
Black Hi	stic (A3) en Sulfide (A4)		Thin Dark Surface (S9) (LRR R, MLRA 1 High Chroma Sands (S11) (LRR K, L)				49B)5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Polyvalue Below Surface (S8) (LRR K, L)		
	d Layers (A5)			icky Mineral (F1) ( <b>LRR K, L</b> )			Thin Dark Surface (S9) (LRR K, L)		
	d Below Dark Surface	(A11)	Loamy Gleyed			· · · · · · · ·		nese Masses (F12) (LRR K, L, R)	
	ark Surface (A12)	,	Depleted Matrix (F3)				Piedmont Floodplain Soils (F19) (MLRA 149B)		
Sandy M	lucky Mineral (S1)		Redox Dark Surface (F6)				Mesic Spodic (TA6) ( <b>MLRA 144A, 145, 149B</b> )		
X Sandy G	Gleyed Matrix (S4)		Depleted Dark Surface (F7)				Red Parent Material (F21)		
X Sandy R	, ,		Redox Depressions (F8)				Very Shallow Dark Surface (F22)		
	Matrix (S6)		Marl (F10) ( <b>LR</b>	R K, L)			Other (Explain in Remarks)		
Dark Su	rface (S7)								
<sup>3</sup> Indicators o	f hydrophytic vegetati	on and we	etland hydrology mu	st be pre	sent. unl	less distu	rbed or problematic.		
	Layer (if observed):		<u>, , , , , , , , , , , , , , , , , , , </u>		,				
Type:									
Depth (ii	nches):						Hydric Soil Present?	Yes X No	
Remarks:									



Wetland CJJJ-18 View facing north



Wetland CJJJ-18 Soils

Segment 3 - Package 2

# **SITE PHOTOGRAPHS**

**Champlain Hudson Power Express** 

## WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: CHPE	City/County: Whitehall / Washington Sampling Date: 11/15/21
Applicant/Owner: TDI	State: NY Sampling Point: UPL CJJJ
Investigator(s): J. Greaves, C. Scrivner	Section, Township, Range:
- ' -	relief (concave, convex, none): Concave Slope %: 5
Subregion (LRR or MLRA): LRR R Lat: 43-28-34,87N	Long: 73-25-46.44W Datum: WGS 84
Soil Map Unit Name: OP - Orthents and Psamments	NWI classification: NA
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes X No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly distur	
Are Vegetation, Soil, or Hydrology naturally problems	
SUMMARY OF FINDINGS – Attach site map showing sam	pling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes X No	Is the Sampled Area
Hydric Soil Present? Yes X No	within a Wetland? Yes No X
Wetland Hydrology Present? Yes No X	If yes, optional Wetland Site ID:
Successional Old Field. Upland for CJJJ-2, CJJJ-9 and CJJJ-18.	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) Water-Stained Leaves (	B9) Drainage Patterns (B10)
High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)
Saturation (A3) — Marl Deposits (B15)	Dry-Season Water Table (C2)
Water Marks (B1) Hydrogen Sulfide Odor (	(C1) Crayfish Burrows (C8)
Sediment Deposits (B2)  Oxidized Rhizospheres	
Drift Deposits (B3) Presence of Reduced In	
Algal Mat or Crust (B4)  Recent Iron Reduction in	
Iron Deposits (B5) — Thin Muck Surface (C7)	<del></del>
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remar	<del></del>
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No _X Depth (inches)	: <u></u> _
Water Table Present? Yes No X Depth (inches)	:
Saturation Present? Yes No _X Depth (inches)	: Wetland Hydrology Present? Yes No _X
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	evious inspections), if available:
Remarks:	

<u>Tree Stratum</u> (Plot size: 30' )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. Populus deltoides	8	Yes	FAC	
2				Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)
				That Ale GBE, FAGW, OF FAG.
				Total Number of Dominant
4.				Species Across All Strata:3(B)
5		<del></del>		Percent of Dominant Species That Are OBL, FACW, or FAC: 66.7% (A/B)
-				Prevalence Index worksheet:
/		=Total Cover		
Osalia a (Obash Otsahara - (Dish sisar - 45)	8	- Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15' )				OBL species 0 x 1 = 0
1.				FACW species 0 x 2 = 0
2				FAC species48 x 3 =144
3				FACU species 25 x 4 = 100
4				UPL species40 x 5 =200
5				Column Totals: 113 (A) 444 (B)
6				Prevalence Index = B/A = 3.93
7				Hydrophytic Vegetation Indicators:
		=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size:)				X 2 - Dominance Test is >50%
1. Daucus carota	40	Yes	UPL	3 - Prevalence Index is ≤3.0 <sup>1</sup>
2. Setaria pumila	40	Yes	FAC	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
3. Lotus corniculatus	20	No	FACU	data in Remarks or on a separate sheet)
4. Symphyotrichum ericoides	5	No	FACU	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5.				1 Indicators of budgie call and watered budgelong moves
6.				<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
7.				Definitions of Vegetation Strata:
Q				
9.				Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
10.				
44				Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
				and greater than or equal to 3.20 ft (1 m) tail.
12	405	-T-1-1 O		Herb – All herbaceous (non-woody) plants, regardless
W 1 15 01 1 (DI 1 )	105	=Total Cover		of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size: 30' )				Woody vines – All woody vines greater than 3.28 ft in
1.		<del>-</del>		height.
2				Hydrophytic
3				Vegetation
4				Present?
		=Total Cover		
Remarks: (Include photo numbers here or on a sepa	rate sheet.)			

Sampling Point:

UPL CJJJ

SOIL Sampling Point UPL CJJJ

Depth	Matrix			x Featur	es		onfirm the absence o	,
(inches)	Color (moist)	%	Color (moist)	%_	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-5	10YR 4/2	98	10YR 5/4	2	<u>C</u>	M	Loamy/Clayey	Distinct redox concentrations
5-11	10YR 5/1	80	7.5YR 4/6		<u>C</u>	<u>M</u>	Sandy	Prominent redox concentrations
				_				
<sup>1</sup> Type: C=Ce <b>Hydric Soil</b>	oncentration, D=Depl	etion, RM	=Reduced Matrix, M	/IS=Mas	ked Sand	d Grains.		L=Pore Lining, M=Matrix.  or Problematic Hydric Soils <sup>3</sup> :
Black Hi Hydroge Stratified Depleted Thick Da Sandy M Sandy G X Sandy R Stripped Dark Su	pipedon (A2) stic (A3) in Sulfide (A4) d Layers (A5) d Below Dark Surface ark Surface (A12) ducky Mineral (S1) deleyed Matrix (S4) dedox (S5) Matrix (S6) rface (S7)		Polyvalue Belo MLRA 149B Thin Dark Surfa High Chroma S Loamy Mucky Loamy Gleyed X Depleted Matri Redox Dark Su Depleted Dark Redox Depress Marl (F10) (LR	) ace (S9) Sands (S Mineral Matrix ( x (F3) urface (F Surface sions (F8 R K, L)	(LRR R 611) (LRI (F1) (LRI F2) 66) (F7)	, MLRA 1 R K, L) R K, L)	Coast Pi 5 cm Mu Polyvalu Thin Dar Iron-Mar Piedmor Mesic Si Red Par Very Sha	ick (A10) (LRR K, L, MLRA 149B) rairie Redox (A16) (LRR K, L, R) icky Peat or Peat (S3) (LRR K, L, R) ie Below Surface (S8) (LRR K, L) inganese Masses (F12) (LRR K, L, R) int Floodplain Soils (F19) (MLRA 149B) podic (TA6) (MLRA 144A, 145, 149B) ent Material (F21) allow Dark Surface (F22) explain in Remarks)
Type: Depth (ii	Roc nches):	<u>k</u> 11					Hydric Soil Preser	nt? Yes X No
Remarks:								<u> </u>



Upland CJJJ-2, CJJJ-9 and CJJJ-18 View facing north



Upland CJJJ-2, CJJJ-9 and CJJJ-18 Soils

Segment 3 - Package 2

**SITE PHOTOGRAPHS** 

## WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

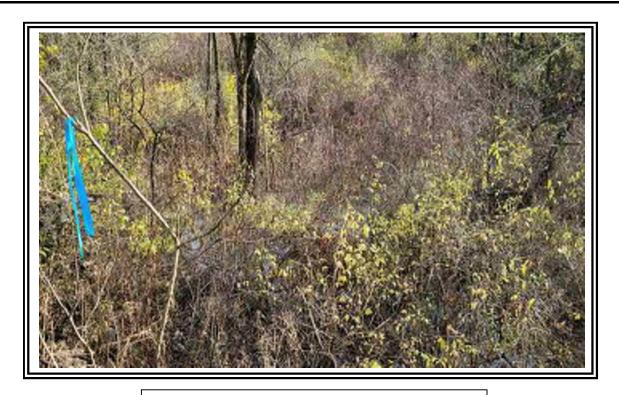
Project/Site: CHPE	City/County: Whitehall / Washington Sampling Date: 11/15/21
Applicant/Owner: TDI	State: NY Sampling Point: WET CKKK-5
Investigator(s): J. Greaves, C. Scrivner	Section, Township, Range:
Landform (hillside, terrace, etc.): Depression Local r	relief (concave, convex, none): Concave Slope %: 5
Subregion (LRR or MLRA): LRR R Lat: 43-28-28.40N	Long: _73-25-48.08W
Soil Map Unit Name: OP - Orthents and Psamments	NWI classification: PSS1
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes X No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly disturb	
Are Vegetation, Soil, or Hydrologynaturally problemate	
SUMMARY OF FINDINGS – Attach site map showing samp	pling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes X No	Is the Sampled Area
Hydric Soil Present? Yes X No	within a Wetland? Yes X No
Wetland Hydrology Present? Yes X No	If yes, optional Wetland Site ID: Near Flag CKKK-5
Palustrine Scrubshrub Wetland. Edinger classification: Shrub Swamp.	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
X Surface Water (A1) X Water-Stained Leaves (B	<del></del>
X High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)
X Saturation (A3) — Marl Deposits (B15)	Dry-Season Water Table (C2)
Water Marks (B1) Hydrogen Sulfide Odor (C	
X Sediment Deposits (B2) — Oxidized Rhizospheres o	
Drift Deposits (B3) Presence of Reduced Iro	
Algal Mat or Crust (B4)  Iron Deposits (B5)  Recent Iron Reduction in Thin Muck Surface (C7)	Tilled Soils (C6) X Geomorphic Position (D2) Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7)  Other (Explain in Remark	<del></del>
X Sparsely Vegetated Concave Surface (B8)	X FAC-Neutral Test (D5)
	A FAC-Neutral Test (D3)
Field Observations:	40
Surface Water Present? Yes X No Depth (inches):	$\frac{12}{0}$
Water Table Present? Yes X No Depth (inches): Saturation Present? Yes X No Depth (inches):	0 Wetland Hydrology Present? Yes Y No
Saturation Present? Yes X No Depth (inches): (includes capillary fringe)	Wetland Hydrology Present? Yes X No
Describe Recorded Data (stream gauge, monitoring well, aerial photos, prev	vious inspections) if available:
Describe Necorded Data (Stream gauge, memoring well, dental prieses, pre-	vious inspections), it available.
Remarks:	

Trace Chieffing (Diet size) 201	Absolute	Dominant	Indicator	Description of Test were less to			
Tree Stratum (Plot size: 30')	% Cover	Species?	Status	Dominance Test worksheet:			
<ol> <li>Fraxinus pennsylvanica</li> <li></li> </ol>	30	Yes	FACW	Number of Dominant Species That Are OBL, FACW, or FAC:4 (A)			
3. 4.				Total Number of Dominant Species Across All Strata:4(B)			
<ul><li>5.</li><li>6.</li></ul>				Percent of Dominant Species That Are OBL, FACW, or FAC:(A/B)			
7				Prevalence Index worksheet:			
	30	=Total Cover		Total % Cover of: Multiply by:			
Sapling/Shrub Stratum (Plot size:)				OBL species0 x 1 =0			
1. Cornus sericea	70	Yes	FACW	FACW species 130 x 2 = 260			
2. Lonicera morrowii	5	No	FACU	FAC species 0 x 3 = 0			
3				FACU species 5 x 4 = 20			
4				UPL species0 x 5 =0			
5.				Column Totals: 135 (A) 280 (B)			
6.				Prevalence Index = B/A = 2.07			
7.				Hydrophytic Vegetation Indicators:			
	 75	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation			
Herb Stratum (Plot size: 5' )		•		X 2 - Dominance Test is >50%			
1. Cornus sericea	15	Yes	FACW	X 3 - Prevalence Index is ≤3.0 <sup>1</sup>			
2. Onoclea sensibilis	15	Yes	FACW	4 - Morphological Adaptations <sup>1</sup> (Provide supporting			
2				data in Remarks or on a separate sheet)			
4.				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)			
5				<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.			
7.				Definitions of Vegetation Strata:			
8 9				Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.			
10				Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.			
12.							
	30	=Total Cover		Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.			
Woody Vine Stratum (Plot size: 30' )				Woody vines – All woody vines greater than 3.28 ft in			
1.				height.			
2.				Hydrophytic			
3.				Vegetation			
4				Present? Yes X No			
		=Total Cover					
Remarks: (Include photo numbers here or on a separ	ate sheet.)						

Sampling Point: WET CKKK-5

**SOIL** Sampling Point WET CKKK-5

		the dep				tor or co	onfirm the absence of ind	licators.)
Depth (inches)	Matrix			x Featur		1 2	Tautuma	Domonika
(inches)	Color (moist)		Color (moist)		Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
1							2	
'Type: C=Co	ncentration, D=Deple	tion, RM	=Reduced Matrix, N	/IS=Mas	ked Sand	l Grains.		ore Lining, M=Matrix. roblematic Hydric Soils <sup>3</sup> :
Histosol			Polyvalue Belo	w Surfa	ce (S8) (I	LRR R.		A10) (LRR K, L, MLRA 149B)
	ipedon (A2)	•	MLRA 149B		00 (00) (.			e Redox (A16) ( <b>LRR K, L, R</b> )
Black His			Thin Dark Surf	ace (S9)	(LRR R	, MLRA 1		Peat or Peat (S3) (LRR K, L, R)
Hydroger	n Sulfide (A4)		High Chroma S	Sands (S	611) ( <b>LRF</b>	R K, L)	Polyvalue Be	elow Surface (S8) ( <b>LRR K, L</b> )
	Layers (A5)		Loamy Mucky			R K, L)		urface (S9) ( <b>LRR K, L</b> )
	Below Dark Surface	(A11)	Loamy Gleyed		F2)			ese Masses (F12) (LRR K, L, R)
	rk Surface (A12) ucky Mineral (S1)		Depleted Matri Redox Dark Su		·6)			c (TA6) ( <b>MLRA 144A, 145, 149B</b> )
	eyed Matrix (S4)		Depleted Dark					Material (F21)
	edox (S5)		Redox Depress					/ Dark Surface (F22)
	Matrix (S6)		 Marl (F10) ( <b>LR</b>	RK,L)			X Other (Expla	
Dark Sur	face (S7)						<del></del> -	
3								
	hydrophytic vegetation ayer (if observed):	on and we	etland hydrology mu	ist be pr	esent, ur	iless dist	urbed or problematic.	
Type:	ayer (ii observed).							
Depth (in	ches):						Hydric Soil Present?	Yes X No
Remarks:								
	ected due to having a	foot of in	undation and domi	nance of	f FACW s	species.		



Wetland CKKK-5 View facing south

Segment 3 - Package 2

**SITE PHOTOGRAPHS** 

## WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: CHPE	City/County: Whitehall / Washington Sampling Date: 11/15/21
Applicant/Owner: TDI	State: NY Sampling Point: upl сккк-5
Investigator(s): J. Greaves, C. Scrivner	Section, Township, Range:
Landform (hillside, terrace, etc.): Hillslope	Local relief (concave, convex, none): Convex Slope %: 40
Subregion (LRR or MLRA): LRR R Lat: 43-28-	-28.51N Long: 73-25-48.32W Datum: WGS 84
Soil Map Unit Name: OP - Orthents and Psamments	NWI classification: NA
Are climatic / hydrologic conditions on the site typical for this time	e of year? Yes X No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrologysignific	<del></del>
Are Vegetation, Soil, or Hydrologynatural	ly problematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map show	wing sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No	X Is the Sampled Area
Hydric Soil Present? Yes X No	
Wetland Hydrology Present? Yes No	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that ap	Surface Soil Cracks (B6)
Surface Water (A1) Water-Staine	d Leaves (B9) Drainage Patterns (B10)
High Water Table (A2) Aquatic Faun	Moss Trim Lines (B16)
Saturation (A3) Marl Deposits	
	Ifide Odor (C1) Crayfish Burrows (C8)
	zospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9)
	Reduced Iron (C4)  Stunted or Stressed Plants (D1)
	Reduction in Tilled Soils (C6) Geomorphic Position (D2)
Iron Deposits (B5)  Thin Muck Su	• • • • • • • • • • • • • • • • • • • •
Inundation Visible on Aerial Imagery (B7) Other (Explain Sparsely Vegetated Concave Surface (B8)	n in Remarks)  Microtopographic Relief (D4)  FAC Neutral Test (D5)
	FAC-Neutral Test (D5)
Field Observations:	
	th (inches):
	th (inches): Wetland Hydrology Present? Yes No X
	th (inches):   Wetland Hydrology Present? Yes No _X
(includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial	nhotos previous inspections) it available:
Describe Necorded Data (stream gauge, monitoring wen, acrial	protos, previous inspections), il available.
Remarks:	

Tree Stratum (Plot size:)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:				
2.				Number of Dominant Species That Are OBL, FACW, or FAC:(A)				
3. 4.				Total Number of Dominant Species Across All Strata: (B)				
5 6				Percent of Dominant Species That Are OBL, FACW, or FAC:(A/B)				
7				Prevalence Index worksheet:				
		=Total Cover		Total % Cover of: Multiply by:				
Sapling/Shrub Stratum (Plot size:)				OBL species 0 x 1 = 0				
1. Lonicera morrowii	65	Yes	FACU	FACW species 0 x 2 = 0				
2. Rhus typhina	10	No	UPL	FAC species10 x 3 =30				
3.				FACU species 130 x 4 = 520				
4.				UPL species10 x 5 =50				
5.				Column Totals: 150 (A) 600 (B)				
6.				Prevalence Index = B/A = 4.00				
7				Hydrophytic Vegetation Indicators:				
	75	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation				
Herb Stratum (Plot size: 5' )		-"		2 - Dominance Test is >50%				
1. Solidago canadensis	40	Yes	FACU	3 - Prevalence Index is ≤3.0 <sup>1</sup>				
Rubus allegheniensis	10	No	FACU	4 - Morphological Adaptations <sup>1</sup> (Provide supporting				
3. Thelypteris noveboracensis	10	No	FAC	data in Remarks or on a separate sheet)				
4. Symphyotrichum ericoides	10	No	FACU	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)				
5.				The disease of budging and continued budget and according				
6.				<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.				
7.				Definitions of Vegetation Strata:				
8.								
9.				<b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.				
11.				Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.				
12.				Herb – All herbaceous (non-woody) plants, regardless				
	70	=Total Cover		of size, and woody plants less than 3.28 ft tall.				
Woody Vine Stratum (Plot size:)				Woody vines – All woody vines greater than 3.28 ft in				
1. Vitis aestivalis	5	Yes	FACU	height.				
2.								
3.				Hydrophytic Vegetation				
4.				Present? Yes No X				
	5	=Total Cover						
Remarks: (Include photo numbers here or on a separa	ate sheet.)	<u>-</u>						
` '	,							

Sampling Point: UPL CKKK-5

SOIL Sampling Point: UPL CKKK-5

		o the dep				tor or co	nfirm the absence of indicators.)		
Depth	Matrix	0/		x Featur		Loc <sup>2</sup>	Touture		
(inches)	Color (moist)	%	Color (moist)		Type <sup>1</sup>		Texture Remarks	4:	
0-7	10YR 2/1	95	10YR 4/3	5	<u>C</u>	<u>M</u>	Sandy Distinct redox concentr	rations	
7-11	2.5Y 5/1	98	2.5Y 5/3	2	С	М	Sandy Distinct redox concentr	rations	
	_								
		etion, RM=	Reduced Matrix, M	S=Mask	ed Sand	Grains.	<sup>2</sup> Location: PL=Pore Lining, M=Matrix.	c <sup>3</sup> .	
Hydric Soil Indi Histosol (A1			Polyvalue Belo	w Surfac	ce (S8) (I	RRR	Indicators for Problematic Hydric Soil 2 cm Muck (A10) (LRR K, L, MLRA		
Histic Epipe			MLRA 149B		00 (00) (1	-1111 11,	Coast Prairie Redox (A16) (LRR K, I		
Black Histic			Thin Dark Surfa		(LRR R,	MLRA 1			
Hydrogen S	ulfide (A4)		High Chroma S	ands (S	11) (LRF	R K, L)	Polyvalue Below Surface (S8) (LRR K, L)		
Stratified La	yers (A5)		Loamy Mucky N	Mineral (	(F1) ( <b>LRF</b>	R K, L)	Thin Dark Surface (S9) (LRR K, L)		
	elow Dark Surface	(A11)	Loamy Gleyed		F2)		Iron-Manganese Masses (F12) (LRF		
	Surface (A12)		Depleted Matrix	. ,	· (a)		Piedmont Floodplain Soils (F19) (ML	•	
	ky Mineral (S1)		Redox Dark Su				Mesic Spodic (TA6) (MLRA 144A, 14	45, 149B)	
X Sandy Redo	ed Matrix (S4)		Depleted Dark  Redox Depress				Red Parent Material (F21)  Very Shallow Dark Surface (F22)		
Stripped Ma			Marl (F10) ( <b>LR</b>		3)		Other (Explain in Remarks)		
Dark Surfac							<del></del> · · ·		
		on and we	tland hydrology mus	st be pre	esent, unl	ess distu	rbed or problematic.		
	er (if observed):	ı.							
Type:	Roc								
Depth (inch	es):	11					Hydric Soil Present? Yes X N	<u> </u>	
Remarks:									



**Upland CKKK-5 View facing east** 



**Upland CKKK-5 Soils** 

Segment 3 - Package 2

# **SITE PHOTOGRAPHS**

## WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: CHPE	City/County: Fort Ann / Washington Sampling Date: 11/15/21
Applicant/Owner: TDI	State: NY Sampling Point: WET CLLL-2
Investigator(s): J. Greaves, C. Scrivner	Section, Township, Range:
Landform (hillside, terrace, etc.): Depression Local r	relief (concave, convex, none): Concave Slope %: 5
Subregion (LRR or MLRA): LRR R Lat: 43-28-19.00N	Long: _73-25-56,01W
Soil Map Unit Name: OP - Orthents and Psamments	NWI classification: PSS1
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes X No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrologysignificantly disturb	<del></del>
Are Vegetation, Soil, or Hydrologynaturally problema	
SUMMARY OF FINDINGS – Attach site map showing samp	pling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes X No	Is the Sampled Area
Hydric Soil Present?  Yes X No	within a Wetland? Yes X No
Wetland Hydrology Present? Yes X No	If yes, optional Wetland Site ID: Near Flag CLLL-2
Palustrine Scrubshrub Wetland. Edinger classification: Shrub Swamp.	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
X Surface Water (A1) X Water-Stained Leaves (B	<del></del>
X High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)
X Saturation (A3) — Marl Deposits (B15)	Dry-Season Water Table (C2)
Water Marks (B1) Hydrogen Sulfide Odor (C	
X Sediment Deposits (B2) — Oxidized Rhizospheres o	
Drift Deposits (B3) Presence of Reduced Iro	
Algal Mat or Crust (B4)  Iron Deposits (B5)  Recent Iron Reduction in Thin Muck Surface (C7)	n Tilled Soils (C6) X Geomorphic Position (D2) Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7)  Other (Explain in Remark	
X Sparsely Vegetated Concave Surface (B8)	X FAC-Neutral Test (D5)
	<u> </u>
Field Observations: Surface Water Present? Yes X No Depth (inches):	2
Water Table Present? Yes X No Depth (inches): Saturation Present? Yes X No Depth (inches):	
(includes capillary fringe)	Wetland Hydrology Fresent: Fes No
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	vious inspections), if available:
Remarks:	

Absolute	Dominant	Indicator				
% Cover	Species?	Status	Dominance Test worksheet:			
			Number of Deminant Chasins			
			Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)			
			Total Number of Dominant Species Across All Strata: 2 (B)			
			Species Across All Strata: 2 (B)			
			Percent of Dominant Species			
			That Are OBL, FACW, or FAC:100.0%(A/B			
<u> </u>			Prevalence Index worksheet:			
	=Total Cover		Total % Cover of: Multiply by:			
)			OBL species0 x 1 =0			
80	Yes	FACW	FACW species 96 x 2 = 192			
5	No No	FACW	FAC species 0 x 3 = 0			
			FACU species 0 x 4 = 0			
			UPL species 0 x 5 = 0			
			' <del></del>			
·			Prevalence Index = B/A = 2.00			
			Hydrophytic Vegetation Indicators:			
85	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation			
			X 2 - Dominance Test is >50%			
10	Yes	FACW	X 3 - Prevalence Index is ≤3.0 <sup>1</sup>			
1	No	FACW	4 - Morphological Adaptations <sup>1</sup> (Provide suppor			
			data in Remarks or on a separate sheet)			
			Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)			
			<del></del>			
			<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.			
-			Definitions of Vegetation Strata:			
			Tree – Woody plants 3 in. (7.6 cm) or more in			
<u> </u>			diameter at breast height (DBH), regardless of height			
			Sapling/shrub – Woody plants less than 3 in. DBH			
			and greater than or equal to 3.28 ft (1 m) tall.			
			Herb – All herbaceous (non-woody) plants, regardles			
11	=Total Cover		of size, and woody plants less than 3.28 ft tall.			
	•					
)			I Woody vince All woody vince greater than 3.29 ft i			
)						
) - ———			height.			
) 						
			height.  Hydrophytic Vegetation			
			height.  Hydrophytic			
	80 5 85 10 1	=Total Cover    80	=Total Cover    80			

SOIL Sampling Point WET CLLL-2

	· ·	the dep				itor or co	onfirm the absence of in	dicators.)
Depth	Matrix	0/		x Featur		1.22	Tavduma	Domonico
(inches)	Color (moist)		Color (moist)		Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
<sup>1</sup> Type: C=Co	ncentration, D=Deple	tion RM	=Reduced Matrix N	 2eM=2N	 ked Sand		<sup>2</sup> l ocation: PI =F	Pore Lining, M=Matrix.
Hydric Soil I		don, ravi	Treduced Waters, IV	io ivias	itou ourie	oranio.		Problematic Hydric Soils <sup>3</sup> :
Histosol (			Polyvoluo Polo	u Curfo	oo (CO) (I	DD D		
	,		Polyvalue Belo		ce (56) (I	LKK K,		(A10) (LRR K, L, MLRA 149B)
	ipedon (A2)		MLRA 149B	•				e Redox (A16) ( <b>LRR K, L, R</b> )
Black His			Thin Dark Surfa					Peat or Peat (S3) (LRR K, L, R)
	n Sulfide (A4)		High Chroma S					elow Surface (S8) ( <b>LRR K, L</b> )
	Layers (A5)		Loamy Mucky I			R K, L)		urface (S9) ( <b>LRR K, L</b> )
Depleted	Below Dark Surface	(A11)	Loamy Gleyed	Matrix (	F2)		Iron-Mangar	nese Masses (F12) ( <b>LRR K, L, R</b> )
Thick Da	rk Surface (A12)		Depleted Matri	x (F3)			Piedmont F	loodplain Soils (F19) ( <b>MLRA 149B</b> )
Sandy M	ucky Mineral (S1)		Redox Dark Su	ırface (F	6)		Mesic Spod	ic (TA6) ( <b>MLRA 144A, 145, 149B</b> )
Sandy Gl	eyed Matrix (S4)		Depleted Dark	Surface	(F7)		Red Parent	Material (F21)
Sandy Re	edox (S5)		Redox Depress	sions (F	8)		Very Shallov	w Dark Surface (F22)
Stripped	Matrix (S6)		—— Marl (F10) ( <b>LR</b>	RK,L)			X Other (Expla	ain in Remarks)
Dark Sur							<del></del> ` ` '	,
	,							
<sup>3</sup> Indicators of	hydrophytic vegetation	on and w	etland hydrology mu	ıst be pr	esent ur	nless dist	urbed or problematic.	
	ayer (if observed):	orr arra w	zaana riyarology irre	лот во р.	555111, 41	11000 0101		
Type:	ayer (ii observeu).							
Depth (in	ches):						Hydric Soil Present?	Yes <u>X</u> No
Remarks:								
Soils not colle	ected due to having ir	nundation	and a dominance	of FACV	V species	i.		



Wetland CLLL-2 View facing southwest

Segment 3 - Package 2

**SITE PHOTOGRAPHS** 

## WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: CHPE	City/County: Fort Ann / Washington Sampling Date: 11/15/21
Applicant/Owner: TDI	State: NY Sampling Point: UPL CLLL-2
Investigator(s): J. Greaves, C. Scrivner	Section, Township, Range:
	relief (concave, convex, none): Convex Slope %: 35
Subregion (LRR or MLRA): LRR R Lat: 43-28-18.98N	Long: 73-25-55.75W Datum: WGS 84
Soil Map Unit Name: OP - Orthents and Psamments	NWI classification: NA
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes X No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly disturb	
Are Vegetation, Soil, or Hydrologynaturally problems	atic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing same	npling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No X	Is the Sampled Area
Hydric Soil Present? Yes No X	within a Wetland? Yes No X
Wetland Hydrology Present? Yes No X	If yes, optional Wetland Site ID:
Mowed roadside	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) Water-Stained Leaves (E	B9) Drainage Patterns (B10)
High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)
Saturation (A3)Marl Deposits (B15)	Dry-Season Water Table (C2)
Water Marks (B1)  Hydrogen Sulfide Odor (	
Sediment Deposits (B2)  Oxidized Rhizospheres of Polymer (B2)	
Drift Deposits (B3) Presence of Reduced Iro	
Algal Mat or Crust (B4)  Iron Deposits (B5)  Recent Iron Reduction in Thin Muck Surface (C7)	
Inundation Visible on Aerial Imagery (B7)  Other (Explain in Remark	
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)
<del>_ ' ' ' '</del>	TAO Neutral Test (B5)
Field Observations:	
Surface Water Present? Yes No X Depth (inches):  Water Table Present? Yes No X Depth (inches):	
Saturation Present? Yes No X Depth (inches):	
(includes capillary fringe)	Wettand Hydrology Fresent: 165 No _X
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	
20001130 Notice 2 Late (endant gauge, montering won, actial protect, pro	viole inspections, in available.
Remarks:	

Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1 2				Number of Dominant Species That Are OBL, FACW, or FAC:(A)
3. 4.		·		Total Number of Dominant Species Across All Strata: (B)
5 6				Percent of Dominant Species That Are OBL, FACW, or FAC: 33.3% (A/B)
7				Prevalence Index worksheet:
		=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size:)				OBL species 0 x 1 = 0
1				FACW species 0 x 2 = 0
2.				FAC species65 x 3 =195
3.				FACU species 5 x 4 = 20
4				UPL species35 x 5 =175
5				Column Totals: 105 (A) 390 (B)
6				Prevalence Index = B/A = 3.71
7.				Hydrophytic Vegetation Indicators:
		=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5' )		-		2 - Dominance Test is >50%
1. Setaria pumila	65	Yes	FAC	3 - Prevalence Index is ≤3.0 <sup>1</sup>
2. Pastinaca sativa	35	Yes	UPL	4 - Morphological Adaptations (Provide supporting
3.				data in Remarks or on a separate sheet)
4.				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5				<sup>1</sup> Indicators of hydric soil and wetland hydrology must be
6				present, unless disturbed or problematic.
7				Definitions of Vegetation Strata:
8				Tree – Woody plants 3 in. (7.6 cm) or more in diameter
9				at breast height (DBH), regardless of height.
10 11.		· ——		Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
-	-			and greater than or equal to 3.20 ft (1 m) tail.
12	100	=Total Cover		<b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size: 30' )		-		Woody vines – All woody vines greater than 3.28 ft in
1. Vitis aestivalis	5	Yes	FACU	height.
2.				
3.				Hydrophytic
4.				Vegetation Present? Yes No X
	5	=Total Cover		
Remarks: (Include photo numbers here or on a separ				
remarks. (include photo numbers here of on a separ	ate sneet.)			

Sampling Point: UPL CLLL-2

SOIL Sampling Point: UPL CLLL-2

Profile Description: (Describe to the dep				or or co	nfirm the absence of indicators.)	
Depth Matrix		k Feature		. 2		
(inches) Color (moist) %	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture Remark	S
0-6 10YR 3/1 100					Sandy	
<sup>1</sup> Type: C=Concentration, D=Depletion, RM	- Paduaad Matrix M		ad Sand (		<sup>2</sup> Location: PL=Pore Lining, M=Matri	·
Hydric Soil Indicators:	=Reduced Matrix, Mi	3=IVIASK	eu Sanu (	Jiailis.	Indicators for Problematic Hydric	
Histosol (A1)	Polyvalue Belov	w Surfac	e (S8) ( <b>L</b>	RR R.	2 cm Muck (A10) (LRR K, L, MI	
Histic Epipedon (A2)	MLRA 149B)		() (_	,	Coast Prairie Redox (A16) (LRF	
Black Histic (A3)	Thin Dark Surfa		(LRR R,	MLRA 1		
Hydrogen Sulfide (A4)	High Chroma S	ands (S	11) (LRR	K, L)	Polyvalue Below Surface (S8) (I	RR K, L)
Stratified Layers (A5)	Loamy Mucky N	Mineral (	F1) ( <b>LRR</b>	K, L)	Thin Dark Surface (S9) (LRR K	L)
Depleted Below Dark Surface (A11)	Loamy Gleyed	Matrix (F	-2)		Iron-Manganese Masses (F12)	(LRR K, L, R)
Thick Dark Surface (A12)	Depleted Matrix	(F3)			Piedmont Floodplain Soils (F19)	(MLRA 149B)
Sandy Mucky Mineral (S1)	Redox Dark Su	rface (F	6)		Mesic Spodic (TA6) (MLRA 144	A, 145, 149B)
Sandy Gleyed Matrix (S4)	Depleted Dark	Surface	(F7)		Red Parent Material (F21)	
Sandy Redox (S5)	Redox Depress		3)		Very Shallow Dark Surface (F22	2)
Stripped Matrix (S6)	Marl (F10) ( <b>LR</b> l	R K, L)			Other (Explain in Remarks)	
Dark Surface (S7)						
3						
<sup>3</sup> Indicators of hydrophytic vegetation and w	etland hydrology mus	st be pre	sent, unle	ess distui	rbed or problematic.	
Restrictive Layer (if observed):  Type: Rock						
··· -						
Depth (inches): 6					Hydric Soil Present? Yes	No X
Remarks:						



**Upland CLLL-2 View facing north/northeast** 



**Upland CLLL-2 Soils** 

Segment 3 - Package 2

# **SITE PHOTOGRAPHS**

## WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: CHPE	City/County: Fort Ann / Washington Sampling Date: 11/15/21
Applicant/Owner: TDI	State: NY Sampling Point: WET CAMMM-1
Investigator(s): J. Greaves, C. Scrivner	Section, Township, Range:
Landform (hillside, terrace, etc.): Depression Local r	relief (concave, convex, none): Concave Slope %: 5
Subregion (LRR or MLRA): LRR R Lat: 43-28-4.96N	Long: 73-26-8.13W Datum: WGS 84
Soil Map Unit Name: OP - Orthents and Psamments	NWI classification: PSS1
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes X No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly disturb	
Are Vegetation, Soil, or Hydrologynaturally problema	tic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sam	pling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes X No	Is the Sampled Area
Hydric Soil Present?  Yes X No	within a Wetland? Yes X No
Wetland Hydrology Present? Yes X No	If yes, optional Wetland Site ID: Near Flag CMMM-1
Palustrine Scrubshrub Wetland. Edinger classification: Shrub Swamp.	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
X Surface Water (A1) X Water-Stained Leaves (E	<u> </u>
High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)
X Saturation (A3)Marl Deposits (B15)	Dry-Season Water Table (C2)
Water Marks (B1)  Hydrogen Sulfide Odor (C	
X Sediment Deposits (B2)  Oxidized Rhizospheres o	<u> </u>
Drift Deposits (B3) Presence of Reduced Iro	<u> </u>
Algal Mat or Crust (B4)  Iron Deposits (B5)  Recent Iron Reduction in Thin Muck Surface (C7)	Tilled Soils (C6) X Geomorphic Position (D2) Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7)  Other (Explain in Remark	
X Sparsely Vegetated Concave Surface (B8)	X FAC-Neutral Test (D5)
	A TAC-Neutral Test (D3)
Field Observations:	4
Surface Water Present? Yes X No Depth (inches):  Water Table Present? Yes No Depth (inches):	
Saturation Present? Yes X No Depth (inches):	
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, prev	vious inspections), if available:
Bd.	
Remarks:	

Tree Stratum (Plot size:)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1		·		Number of Dominant Species That Are OBL, FACW, or FAC: (A)
3				Total Number of Dominant Species Across All Strata: 2 (B)
<ul><li>5.</li><li>6.</li></ul>				Percent of Dominant Species That Are OBL, FACW, or FAC:(A/B)
7				Prevalence Index worksheet:
		=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size:)				OBL species 0 x 1 = 0
1. Cornus sericea	80	Yes	FACW	FACW species 110 x 2 = 220
2. Fraxinus pennsylvanica	5	No	FACW	FAC species 5 x 3 = 15
3.				FACU species 0 x 4 = 0
4.				UPL species0 x 5 =0
5.				Column Totals: 115 (A) 235 (B)
6.				Prevalence Index = B/A = 2.04
7.				Hydrophytic Vegetation Indicators:
	85	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5' )		-		X 2 - Dominance Test is >50%
1. Cornus sericea	25	Yes	FACW	X 3 - Prevalence Index is ≤3.0 <sup>1</sup>
Equisetum arvense	5	No	FAC	4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
4.				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
<ul><li>5.</li><li>6.</li></ul>		<del></del>		<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
7.				Definitions of Vegetation Strata:
9.				<b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
10 11.		<del></del>		Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
12.				Hart All Last and Control All Last and Control
	30	=Total Cover		<b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size:) 1.		•		Woody vines – All woody vines greater than 3.28 ft in
		· ——		height.
2.		<del></del>		Hydrophytic
3. 4.		·		Vegetation Present? Yes X No
		=Total Cover		
Remarks: (Include photo numbers here or on a separa	ate sheet.)			
` '	,			

Sampling Point: WET CMMM-1

SOIL Sampling Point: WET CMMM-1

Depth	Matrix	o ine de		ment the x Feature		.OI OI CO	nfirm the absence of i	nuivai015.)
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-8	10YR 2/1	90	10YR 5/3	10	С	M	Loamy/Clayey	Distinct redox concentrations
8-18	10YR 4/1	63	10YR 5/3	30	С	М	Loamy/Clayey	Distinct redox concentrations
			10YR 2/1	2	С	М		Faint redox concentrations
			10YR 4/4	5	С	M		Distinct redox concentrations
¹Type: C=Co	oncentration, D=Depl	etion, RM	=Reduced Matrix, M	S=Mask	ed Sand	Grains.	<sup>2</sup> Location: PL	L=Pore Lining, M=Matrix.
Hydric Soil I					(0.5) (1			or Problematic Hydric Soils <sup>3</sup> :
Histosol			Polyvalue Belo		ce (S8) (I	₋RR R,		ck (A10) (LRR K, L, MLRA 149B)
Black Hi	oipedon (A2) stic (A3)		Thin Dark Surfa	•	(LRR R	. MLRA 1		rairie Redox (A16) ( <b>LRR K, L, R</b> ) cky Peat or Peat (S3) ( <b>LRR K, L, R</b> )
	n Sulfide (A4)		High Chroma S					e Below Surface (S8) (LRR K, L)
	Layers (A5)		Loamy Mucky I					k Surface (S9) ( <b>LRR K, L</b> )
Depleted	d Below Dark Surface	(A11)	Loamy Gleyed	Matrix (F	<del>-</del> 2)		Iron-Man	ganese Masses (F12) (LRR K, L, R)
Thick Da	ark Surface (A12)		X Depleted Matrix	د (F3)			Piedmon	t Floodplain Soils (F19) ( <b>MLRA 149B</b> )
	lucky Mineral (S1)		X Redox Dark Su					podic (TA6) ( <b>MLRA 144A, 145, 149B</b> )
	leyed Matrix (S4)		Depleted Dark					ent Material (F21)
	edox (S5)		Redox Depress Marl (F10) (LR		3)			allow Dark Surface (F22)
	Matrix (S6) rface (S7)		Wall (F10) ( <b>LK</b>	Λ <b>(, L</b> )			Other (E)	xplain in Remarks)
Daik Sui	nace (37)							
	f hydrophytic vegetati	on and w	etland hydrology mus	st be pre	sent, unl	ess distu	rbed or problematic.	
	Layer (if observed):							
Type:								
Depth (ir	nches):						Hydric Soil Presen	t? Yes X No
Remarks:								



Wetland CMMM-1 View facing northwest



**Wetland CMMM-1 Soils** 

Segment 3 - Package 2

# **SITE PHOTOGRAPHS**

## WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: CHPE	City/County: Fort Ann / Washington Sampling Date: 11/15/21
Applicant/Owner: TDI	State: NY Sampling Point: UPL CMMM-1
Investigator(s): J. Greaves, C. Scrivner	Section, Township, Range:
	relief (concave, convex, none): Convex Slope %: 35
Subregion (LRR or MLRA): LRR R Lat: 43-28-4.84N	Long: 73-26-8.09W Datum: WGS 84
Soil Map Unit Name: OP - Orthents and Psamments	NWI classification: NA
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes X No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly disturb	
Are Vegetation, Soil, or Hydrologynaturally problema	atic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sam	
Hydrophytic Vegetation Present? Yes No X	Is the Sampled Area
Hydric Soil Present? Yes No X	within a Wetland? Yes No _X_
Wetland Hydrology Present? Yes No X	If yes, optional Wetland Site ID:
Mowed roadside	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) Water-Stained Leaves (E	<u> </u>
High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)
Saturation (A3)Marl Deposits (B15)	Dry-Season Water Table (C2)
Water Marks (B1)  Hydrogen Sulfide Odor (	
Sediment Deposits (B2)  Oxidized Rhizospheres of the control of th	
Drift Deposits (B3) Presence of Reduced Iro	• • • • • • • • • • • • • • • • • • • •
Algal Mat or Crust (B4)  Iron Deposits (B5)  Recent Iron Reduction in Thin Muck Surface (C7)	
Inundation Visible on Aerial Imagery (B7)  Other (Explain in Remark	
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)
<del>_ ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` `</del>	TAO Nouliai Test (20)
Field Observations:	
Surface Water Present? Yes No X Depth (inches):  Water Table Present? Yes No X Depth (inches):	
Saturation Present? Yes No X Depth (inches):	
(includes capillary fringe)	Noticinal Hydrology Prosent:
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	evious inspections) if available:
20001130 Notociaca Zaia (eli cam gaage, momening won, achar proteet, pro	viodo inopositorio), il divalidoro.
Remarks:	
Tolland.	

Dominant Species?	Indicator Status	Dominance Test worksheet:  Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)  Total Number of Dominant Species Across All Strata: 3 (B)  Percent of Dominant Species That Are OBL, FACW, or FAC: 33.3% (A/E)  Prevalence Index worksheet:  Total % Cover of: Multiply by:  OBL species 0 x1 = 0  FACW species 0 x2 = 0
		That Are OBL, FACW, or FAC:         1         (A)           Total Number of Dominant Species Across All Strata:         3         (B)           Percent of Dominant Species That Are OBL, FACW, or FAC:         33.3%         (A/E           Prevalence Index worksheet:         Total % Cover of:         Multiply by:           OBL species         0         x 1 =         0           FACW species         0         x 2 =         0
		That Are OBL, FACW, or FAC:         1         (A)           Total Number of Dominant Species Across All Strata:         3         (B)           Percent of Dominant Species That Are OBL, FACW, or FAC:         33.3%         (A/E           Prevalence Index worksheet:         Total % Cover of:         Multiply by:           OBL species         0         x 1 =         0           FACW species         0         x 2 =         0
		Total Number of Dominant Species Across All Strata:         3         (B)           Percent of Dominant Species That Are OBL, FACW, or FAC:         33.3%         (A/E           Prevalence Index worksheet:         Total % Cover of:         Multiply by:           OBL species         0         x 1 =         0           FACW species         0         x 2 =         0
		Species Across All Strata:         3         (B)           Percent of Dominant Species That Are OBL, FACW, or FAC:         33.3%         (A/E           Prevalence Index worksheet:           Total % Cover of:         Multiply by:           OBL species         0         x 1 =         0           FACW species         0         x 2 =         0
		Percent of Dominant Species         33.3%         (A/E           Prevalence Index worksheet:           Total % Cover of:         Multiply by:           OBL species         0         x 1 = 0           FACW species         0         x 2 = 0
		That Are OBL, FACW, or FAC: 33.3% (A/E)           Prevalence Index worksheet:           Total % Cover of:         Multiply by:           OBL species         0 x1 = 0           FACW species         0 x2 = 0
		Prevalence Index worksheet:           Total % Cover of:         Multiply by:           OBL species         0         x 1 = 0           FACW species         0         x 2 = 0
		Total % Cover of:         Multiply by:           OBL species         0         x 1 =         0           FACW species         0         x 2 =         0
		OBL species         0         x 1 =         0           FACW species         0         x 2 =         0
· ·		FACW species 0 x 2 = 0
· ·		
· ·		
· ·		FAC species 65 x 3 = 195
		FACU species 5 x 4 = 20
		UPL species 35 x 5 = 175
		Column Totals: 105 (A) 390 (E
		Prevalence Index = $B/A = 3.71$
		Hydrophytic Vegetation Indicators:
otal Cover		1 - Rapid Test for Hydrophytic Vegetation
otal Covel		2 - Dominance Test is >50%
Yes	FAC	3 - Prevalence Index is ≤3.0 <sup>1</sup>
Yes	UPL	4 - Morphological Adaptations <sup>1</sup> (Provide supportidata in Remarks or on a separate sheet)
		Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
<del></del>		<sup>1</sup> Indicators of hydric soil and wetland hydrology must present, unless disturbed or problematic.
		Definitions of Vegetation Strata:
		Tree – Woody plants 3 in. (7.6 cm) or more in diamet at breast height (DBH), regardless of height.
		Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
		and greater training equations and training training
Tatal Carra		Herb – All herbaceous (non-woody) plants, regardles
otal Cover		of size, and woody plants less than 3.28 ft tall.
		Woody vines - All woody vines greater than 3.28 ft in
Yes	FACU	height.
		Hadran Lade
		Hydrophytic Vegetation
		Present? Yes No X
	otal Cover	Yes FAC Yes UPL

SOIL Sampling Point: UPL CMMM-1

Depth	Matrix	o tne del		ument th		tor or co	onfirm the absence of indicators.)	
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture Remarks	;
0-6	10YR 3/1	100					Sandy	
							<u>,</u>	
			-					
	oncentration, D=Deple	etion, RM	=Reduced Matrix, M	S=Mask	ed Sand	Grains.	<sup>2</sup> Location: PL=Pore Lining, M=Matrix	
Hydric Soil I Histosol			Polyvalue Belo	w Surfac	oo (S9) (I	DD D	Indicators for Problematic Hydric and 2 cm Muck (A10) (LRR K, L, ML	
	ipedon (A2)		MLRA 149B		Je (30) (L	-NN N,	Coast Prairie Redox (A16) (LRR R, L, ML	
Black His	. , ,		Thin Dark Surf	•	(LRR R,	MLRA 1		
	n Sulfide (A4)		High Chroma S				Polyvalue Below Surface (S8) (L	
Stratified	Layers (A5)		Loamy Mucky	Mineral (	(F1) ( <b>LRF</b>	R K, L)	Thin Dark Surface (S9) (LRR K,	L)
Depleted	Below Dark Surface	(A11)	Loamy Gleyed	Matrix (F	F2)		Iron-Manganese Masses (F12) (	LRR K, L, R
Thick Da	rk Surface (A12)		Depleted Matri	x (F3)			Piedmont Floodplain Soils (F19)	(MLRA 149F
	ucky Mineral (S1)		Redox Dark Su				Mesic Spodic (TA6) (MLRA 144	A, 145, 149B
	leyed Matrix (S4)		Depleted Dark		` '		Red Parent Material (F21)	
	edox (S5) Matrix (S6)		Redox Depress Marl (F10) (LR		3)		Very Shallow Dark Surface (F22) Other (Explain in Remarks)	)
	face (S7)		IVIAII (F10) (LK	.K K, L)			Other (Explain in Remarks)	
Daik Sui	race (ST)							
<sup>3</sup> Indicators of	hydrophytic vegetation	on and w	etland hydrology mu	st be pre	esent, unl	ess distu	irbed or problematic.	
	ayer (if observed):							
Type:	Rock	k						
Depth (ir	nches):	6					Hydric Soil Present? Yes	No X
Remarks:								



**Upland CMMM-1 and CNNN-1 View facing southwest** 



**Upland CMMM-1 and CNNN-1 Soils** 

Segment 3 - Package 2

# **SITE PHOTOGRAPHS**

## WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: CHPE	City/County: Fort Ann / Washington Sampling Date: 11/15/21
Applicant/Owner: TDI	State: NY Sampling Point: WET CNNN-1
Investigator(s): J. Greaves, C. Scrivner	Section, Township, Range:
Landform (hillside, terrace, etc.): Depression Local r	relief (concave, convex, none): Concave Slope %: 3
Subregion (LRR or MLRA): LRR R Lat: 43-27-55.68N	Long: 73-26-16.96W Datum: WGS 84
Soil Map Unit Name: OP - Orthents and Psamments	NWI classification: PSS1
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes X No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly disturb	<del></del>
Are Vegetation, Soil, or Hydrologynaturally problema	atic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sam	pling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes X No	Is the Sampled Area
Hydric Soil Present?  Yes X No	within a Wetland? Yes X No
Wetland Hydrology Present?  Yes X No	If yes, optional Wetland Site ID: Near Flag CNNN-1
Palustrine Scrubshrub Wetland. Edinger classification: Shrub Swamp.	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) X _ Water-Stained Leaves (E	B9) Drainage Patterns (B10)
X High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)
X Saturation (A3) — Marl Deposits (B15)	Dry-Season Water Table (C2)
Water Marks (B1) Hydrogen Sulfide Odor (0	
Sediment Deposits (B2) Oxidized Rhizospheres o	• · · · · <u>—</u>
Drift Deposits (B3) Presence of Reduced Iro	
Algal Mat or Crust (B4)  Recent Iron Reduction in	
Iron Deposits (B5) — Thin Muck Surface (C7)	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remark	
Sparsely Vegetated Concave Surface (B8)	X FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No _X Depth (inches):	
Water Table Present? Yes X No Depth (inches):	
Saturation Present? Yes X No Depth (inches):	0 Wetland Hydrology Present? Yes X No
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, prev	vious inspections), if available:
Remarks:	

Tree Stratum (Plot size: 30' )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
Fraxinus pennsylvanica	20	Yes	FACW	Number of Deminant Chasins
2.				Number of Dominant Species That Are OBL, FACW, or FAC:  (A)
3.				Total Number of Dominant
4				Species Across All Strata: 7 (B)
5		<u> </u>		Percent of Dominant Species
6				That Are OBL, FACW, or FAC: 85.7% (A/B)
7.				Prevalence Index worksheet:
	20	=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size:)				OBL species 5 x 1 = 5
1. Cornus sericea	40	Yes	FACW	FACW species 105 x 2 = 210
2. Alnus incana	30	Yes	FACW	FAC species 0 x 3 = 0
3. Lonicera morrowii	5	No	FACU	FACU species 12 x 4 = 48
4				UPL species 0 x 5 = 0
5				Column Totals: 122 (A) 263 (B)
6				Prevalence Index = B/A = 2.16
7				Hydrophytic Vegetation Indicators:
	75	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5' )				X 2 - Dominance Test is >50%
Solidago gigantea	10	Yes	FACW	X 3 - Prevalence Index is ≤3.01
2. Lythrum salicaria	5	Yes	OBL	4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
3. Cornus sericea	5	Yes	FACW	
4. Lonicera morrowii	5	Yes	FACU	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5		<del></del>		<sup>1</sup> Indicators of hydric soil and wetland hydrology must be
6		<del></del>		present, unless disturbed or problematic.
7.				Definitions of Vegetation Strata:
8.				Tree – Woody plants 3 in. (7.6 cm) or more in diameter
9.				at breast height (DBH), regardless of height.
10.				Sapling/shrub – Woody plants less than 3 in. DBH
11.				and greater than or equal to 3.28 ft (1 m) tall.
12		T		Herb – All herbaceous (non-woody) plants, regardless
Woody Vine Stratum (Plot size: 30' )	25	=Total Cover		of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size: 30' )  1. Vitis aestivalis	2	No	FACU	<b>Woody vines</b> – All woody vines greater than 3.28 ft in height.
		110	1700	neight.
3.		<del></del>		Hydrophytic
4.				Vegetation Present? Yes X No
· ·	2	=Total Cover		1.55 <u>X</u> No
Remarks: (Include photo numbers here or on a separa		- 10.01 00001		
Tremarks. (include prioto frambers here of on a separa	ate sheet.)			

Sampling Point: WET CNNN-1

SOIL Sampling Point: WET CNNN-1

Depth	Matrix		Redo	x Featur	es		nfirm the absence of	
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-7	10YR 3/1	90	10YR 5/3	10	С	М	Loamy/Clayey	Distinct redox concentrations
7-16	2.5Y 4/1	58	2.5Y 5/3	35	С	М	Loamy/Clayey	Distinct redox concentrations
			10YR 2/1	2	С	M		Distinct redox concentrations
			10YR 4/6	5	С	M		Prominent redox concentrations
1Typo: C-C(	oncentration, D=Depl	otion DM	-Poducod Matrix M	S-Mack	od Sand	Grains	<sup>2</sup> Location: P	L=Pore Lining, M=Matrix.
Hydric Soil I		elion, Rivi=	Reduced Matrix, M	S=IVIASKI	eu Sanu	Grains.		or Problematic Hydric Soils <sup>3</sup> :
Histosol			Polyvalue Belo	w Surfac	e (S8) ( <b>I</b>	RR R,		ick (A10) ( <b>LRR K, L, MLRA 149B</b> )
Histic Ep	pipedon (A2)	•	MLRA 149B	5)			Coast P	rairie Redox (A16) (LRR K, L, R)
Black His	stic (A3)		Thin Dark Surf	ace (S9)	(LRR R	MLRA 1	<b>49B</b> )5 cm Mu	icky Peat or Peat (S3) (LRR K, L, R)
	n Sulfide (A4)	•	High Chroma S					e Below Surface (S8) (LRR K, L)
	l Layers (A5)		Loamy Mucky			R K, L)		rk Surface (S9) ( <b>LRR K, L</b> )
	d Below Dark Surface	(A11)	Loamy Gleyed		-2)			nganese Masses (F12) (LRR K, L, R)
	ark Surface (A12)		Depleted Matri	, ,	<b>C</b> )			nt Floodplain Soils (F19) (MLRA 149B)
	lucky Mineral (S1) leyed Matrix (S4)		X Redox Dark Su					podic (TA6) (MLRA 144A, 145, 149B)
			Depleted Dark		. ,			ent Material (F21) allow Dark Surface (F22)
			Podov Doproc	510115 (FC	))		VEIV 3116	
Sandy R	edox (S5)		Redox Depres Marl (F10) (I R		,			
Sandy R Stripped	edox (S5) Matrix (S6)		Redox Depres Marl (F10) ( <b>LR</b>		,			explain in Remarks)
Sandy R Stripped	edox (S5)				•			
Sandy R Stripped Dark Sur	edox (S5) Matrix (S6) rface (S7) f hydrophytic vegetati	on and we	Marl (F10) (LR	R K, L)		ess distur	Other (E	
Sandy R Stripped Dark Sur  JIndicators of Restrictive L	edox (S5) Matrix (S6) rface (S7)	on and we	Marl (F10) (LR	R K, L)		ess distur	Other (E	
Sandy R Stripped Dark Sur   3Indicators of Restrictive L Type:	edox (S5) Matrix (S6) rface (S7)  f hydrophytic vegetati Layer (if observed):	on and we	Marl (F10) (LR	R K, L)		ess distur	Other (E	xplain in Remarks)
Sandy R Stripped Dark Sur   3Indicators of Restrictive L Type: Depth (ir	edox (S5) Matrix (S6) rface (S7)  f hydrophytic vegetati Layer (if observed):	on and we	Marl (F10) (LR	R K, L)		ess distur	Other (E	xplain in Remarks)
Sandy R Stripped Dark Sur   3Indicators of Restrictive L Type:	edox (S5) Matrix (S6) rface (S7)  f hydrophytic vegetati Layer (if observed):	on and we	Marl (F10) (LR	R K, L)		ess distur	Other (E	xplain in Remarks)
Sandy R Stripped Dark Sur   3Indicators of Restrictive L Type: Depth (ir	edox (S5) Matrix (S6) rface (S7)  f hydrophytic vegetati Layer (if observed):	on and we	Marl (F10) (LR	R K, L)		ess distur	Other (E	xplain in Remarks)
Sandy R Stripped Dark Sur   3Indicators of Restrictive L Type: Depth (ir	edox (S5) Matrix (S6) rface (S7)  f hydrophytic vegetati Layer (if observed):	on and we	Marl (F10) (LR	R K, L)		ess distur	Other (E	xplain in Remarks)
Sandy R Stripped Dark Sur   3Indicators of Restrictive L Type: Depth (ir	edox (S5) Matrix (S6) rface (S7)  f hydrophytic vegetati Layer (if observed):	on and we	Marl (F10) (LR	R K, L)		ess distur	Other (E	xplain in Remarks)
Sandy R Stripped Dark Sur   3Indicators of Restrictive L Type: Depth (ir	edox (S5) Matrix (S6) rface (S7)  f hydrophytic vegetati Layer (if observed):	on and we	Marl (F10) (LR	R K, L)		ess distur	Other (E	xplain in Remarks)
Sandy R Stripped Dark Sur   3Indicators of Restrictive L Type: Depth (ir	edox (S5) Matrix (S6) rface (S7)  f hydrophytic vegetati Layer (if observed):	on and we	Marl (F10) (LR	R K, L)		ess distur	Other (E	xplain in Remarks)
Sandy R Stripped Dark Sur   3Indicators of Restrictive L Type: Depth (ir	edox (S5) Matrix (S6) rface (S7)  f hydrophytic vegetati Layer (if observed):	on and we	Marl (F10) (LR	R K, L)		ess distur	Other (E	xplain in Remarks)
Sandy R Stripped Dark Sur   3Indicators of Restrictive L Type: Depth (ir	edox (S5) Matrix (S6) rface (S7)  f hydrophytic vegetati Layer (if observed):	on and we	Marl (F10) (LR	R K, L)		ess distur	Other (E	xplain in Remarks)
Sandy R Stripped Dark Sur   3Indicators of Restrictive L Type: Depth (ir	edox (S5) Matrix (S6) rface (S7)  f hydrophytic vegetati Layer (if observed):	on and we	Marl (F10) (LR	R K, L)		ess distur	Other (E	xplain in Remarks)
Sandy R Stripped Dark Sur   3Indicators of Restrictive L Type: Depth (ir	edox (S5) Matrix (S6) rface (S7)  f hydrophytic vegetati Layer (if observed):	on and we	Marl (F10) (LR	R K, L)		ess distur	Other (E	xplain in Remarks)
Sandy R Stripped Dark Sur   3Indicators of Restrictive L Type: Depth (ir	edox (S5) Matrix (S6) rface (S7) f hydrophytic vegetati Layer (if observed):	on and we	Marl (F10) (LR	R K, L)		ess distur	Other (E	xplain in Remarks)
Sandy R Stripped Dark Sur   3Indicators of Restrictive L Type: Depth (ir	edox (S5) Matrix (S6) rface (S7) f hydrophytic vegetati Layer (if observed):	on and we	Marl (F10) (LR	R K, L)		ess distur	Other (E	xplain in Remarks)



Wetland CNNN-1 View facing south



**Wetland CNNN-1 Soils** 

Segment 3 - Package 2

# **SITE PHOTOGRAPHS**

## WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: CHPE	City/County: Fort Ann / Washington Sampling Date: 11/15/21
Applicant/Owner: TDI	State: NY Sampling Point: UPL CNNN-1
Investigator(s): J. Greaves, C. Scrivner	Section, Township, Range:
Landform (hillside, terrace, etc.): Hillslope Local	relief (concave, convex, none): Convex Slope %: 30
Subregion (LRR or MLRA): LRR R Lat: 43-27-55.79N	Long: 73-26-17.22W Datum: WGS 84
Soil Map Unit Name: OP - Orthents and Psamments	NWI classification: NA
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes X No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly disturb	· · · · · · · · · · · · · · · · · ·
Are Vegetation, Soil, or Hydrologynaturally problems	atic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sam	npling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No X	Is the Sampled Area
Hydric Soil Present? Yes No X	within a Wetland? Yes No X
Wetland Hydrology Present? Yes No X	If yes, optional Wetland Site ID:
Mowed roadside	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) Water-Stained Leaves (I	B9) Drainage Patterns (B10)
High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)
Saturation (A3) Marl Deposits (B15)	Dry-Season Water Table (C2)
Water Marks (B1) Hydrogen Sulfide Odor (	
Sediment Deposits (B2)  Oxidized Rhizospheres of	
Drift Deposits (B3) Presence of Reduced Iro	<u> </u>
Algal Mat or Crust (B4)Recent Iron Reduction in	
Iron Deposits (B5) ——Thin Muck Surface (C7) ——Other (Fxplain in Remon	• • • • •
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remark Sparsely Vegetated Concave Surface (B8)	
	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No X Depth (inches):	
Water Table Present? Yes No X Depth (inches): Saturation Present? Yes No X Depth (inches):	
<del></del>	:   Wetland Hydrology Present? Yes No _X_
(includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	avious inspections) if available:
Describe Necorded Data (stream gauge, monitoring well, aerial photos, pre	inspections), ii available.
Remarks:	

	Absolute	Dominant	Indicator	
ree Stratum (Plot size:)	% Cover	Species?	Status	Dominance Test worksheet:
				Number of Dominant Species
				That Are OBL, FACW, or FAC: 1 (A)
				Total Number of Dominant Species Across All Strata: 2 (B)
				Percent of Dominant Species That Are OBL, FACW, or FAC: 50.0% (A/B
				That Are OBL, FACW, or FAC: 50.0% (A/E)  Prevalence Index worksheet:
		=Total Cover		Total % Cover of: Multiply by:
apling/Shrub Stratum (Plot size: 15' )		-10101 00101		OBL species 0 x 1 = 0
				FACW species $0 \times 2 = 0$
,				
				FAC species 45 x 3 = 135
				FACU species 30 x 4 = 120
				UPL species25x 5 =125
				Column Totals: 100 (A) 380 (E
				Prevalence Index = B/A = 3.80
				Hydrophytic Vegetation Indicators:
		=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
erb Stratum (Plot size: 5' )				2 - Dominance Test is >50%
Setaria pumila	45	Yes	FAC	3 - Prevalence Index is ≤3.01
Plantago lanceolata	30	Yes	FACU	4 - Morphological Adaptations <sup>1</sup> (Provide supportine data in Remarks or on a separate sheet)
Rubia peregrina	15	No	UPL	data in Kemarks of on a separate sneet)
Pastinaca sativa	10	No	UPL	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
<u> </u>				present, unless disturbed or problematic.
·				Definitions of Vegetation Strata:
·				Tree – Woody plants 3 in. (7.6 cm) or more in diamet
				at breast height (DBH), regardless of height.
O				Sapling/shrub – Woody plants less than 3 in. DBH
l.				and greater than or equal to 3.28 ft (1 m) tall.
2.				Herb – All herbaceous (non-woody) plants, regardles
	100	=Total Cover		of size, and woody plants less than 3.28 ft tall.
oody Vine Stratum (Plot size: 30' )				
				<b>Woody vines</b> – All woody vines greater than 3.28 ft in height.
				Hydrophytic
				Vegetation Present? Yes No X
		=Total Cover		Present?
·				

SOIL Sampling Point: UPL CNNN-1

		the dep				or or co	nfirm the absence of indicate	ors.)
Depth	Matrix			x Featur		. 2	<del>-</del> .	<b>D</b>
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-6	10YR 2/1	100					Sandy	
1 <sub>Tumou</sub> C. Co	nacetration D. Danie	tion DM	Doduced Metrix M	C Mook		Craina	2l acetion: Dl. Doro	Lining M Motrix
Hydric Soil In	ncentration, D=Deple	tion, Kivi=	-Neduced Matrix, Mi	S=IVIASKI	eu Sanu v	Jianis.	<sup>2</sup> Location: PL=Pore	ematic Hydric Soils <sup>3</sup> :
Histosol (			Polyvalue Belo	w Surfac	e (S8) (L	RR R.		) (LRR K, L, MLRA 149B)
	pedon (A2)		MLRA 149B		,	,		dox (A16) ( <b>LRR K, L, R</b> )
Black His			Thin Dark Surfa	•	(LRR R,	MLRA 1		it or Peat (S3) (LRR K, L, R)
	Sulfide (A4)		High Chroma S					Surface (S8) (LRR K, L)
Stratified	Layers (A5)		Loamy Mucky N	Mineral (	F1) (LRR	K, L)	Thin Dark Surface	ce (S9) (LRR K, L)
Depleted	Below Dark Surface	(A11)	Loamy Gleyed	Matrix (F	<del>-</del> 2)		Iron-Manganese	Masses (F12) (LRR K, L, R)
Thick Da	rk Surface (A12)		Depleted Matrix	x (F3)			Piedmont Flood	olain Soils (F19) (MLRA 149B)
Sandy Mu	ucky Mineral (S1)		Redox Dark Su	ırface (F	6)		Mesic Spodic (T	A6) (MLRA 144A, 145, 149B)
Sandy GI	eyed Matrix (S4)		Depleted Dark	Surface	(F7)		Red Parent Mate	erial (F21)
Sandy Re	edox (S5)		Redox Depress		3)		Very Shallow Da	rk Surface (F22)
	Matrix (S6)		Marl (F10) ( <b>LR</b>	R K, L)			Other (Explain in	Remarks)
Dark Surf	face (S7)							
3								
	hydrophytic vegetatio	on and we	tland hydrology mus	st be pre	sent, unle	ess distui	bed or problematic.	
	ayer (if observed):	l,						
Type:	Rock							
Depth (in	ches):	6					Hydric Soil Present?	Yes No _X
Remarks:								

## WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: CHPE	City/County: Fort Ann / Washington Sampling Date: 11/15/21			
Applicant/Owner: TDI	State: NY Sampling Point: WET COOD-20			
Investigator(s): J. Greaves, C. Scrivner	Section, Township, Range:			
Landform (hillside, terrace, etc.): Depression Local r	relief (concave, convex, none): Concave Slope %: 3			
Subregion (LRR or MLRA): LRR R Lat: 43-27-39.98N	Long: 73-26-26.82W Datum: WGS 84			
Soil Map Unit Name: SB - Saprists, Aquepts, and Aquents	NWI classification: PSS1			
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes X No (If no, explain in Remarks.)			
Are Vegetation, Soil, or Hydrologysignificantly disturb	<del></del>			
Are Vegetation, Soil, or Hydrologynaturally problema	atic? (If needed, explain any answers in Remarks.)			
SUMMARY OF FINDINGS – Attach site map showing sam				
Hydrophytic Vegetation Present? Yes X No	Is the Sampled Area			
Hydric Soil Present?  Yes X No	within a Wetland? Yes X No			
Wetland Hydrology Present? Yes X No	If yes, optional Wetland Site ID: Near Flag COOO-20			
Remarks: (Explain alternative procedures here or in a separate report.) Palustrine Scrubshrub Wetland. Edinger classification: Shrub Swamp.				
HYDROLOGY				
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)			
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)			
X Surface Water (A1) X Water-Stained Leaves (E	<del>_</del>			
X High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)			
X Saturation (A3) — Marl Deposits (B15)	Dry-Season Water Table (C2)			
Water Marks (B1) X Hydrogen Sulfide Odor (0				
X Sediment Deposits (B2) X Oxidized Rhizospheres o				
Drift Deposits (B3) Presence of Reduced Iro				
Algal Mat or Crust (B4) Recent Iron Reduction in	· · · · · · · · · · · · · · · · · · ·			
Iron Deposits (B5) Thin Muck Surface (C7)	Shallow Aquitard (D3)			
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remark				
Sparsely Vegetated Concave Surface (B8)	X FAC-Neutral Test (D5)			
Field Observations:				
Surface Water Present? Yes X No Depth (inches):				
Water Table Present? Yes X No Depth (inches):				
Saturation Present? Yes X No Depth (inches):	0 Wetland Hydrology Present? Yes X No			
(includes capillary fringe)				
Describe Recorded Data (stream gauge, monitoring well, aerial photos, prev	vious inspections), if available:			
Remarks:				

Tree Stratum (Plot size: 30' )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:		
Fraxinus pennsylvanica	40	Yes	FACW	Number of Dominant Species		
2.				That Are OBL, FACW, or FAC: 7 (A)		
3.				Total Number of Dominant		
4				Species Across All Strata: 8 (B)		
5				Percent of Dominant Species		
6				That Are OBL, FACW, or FAC: 87.5% (A/B)		
7				Prevalence Index worksheet:		
	40	=Total Cover		Total % Cover of: Multiply by:		
Sapling/Shrub Stratum (Plot size:)				OBL species13 x 1 =13		
1. Cornus sericea	40	Yes	FACW	FACW species 130 x 2 = 260		
2. Alnus incana	40	Yes	FACW	FAC species 5 x 3 = 15		
3. Lonicera morrowii	5	No	FACU	FACU species10 x 4 =40		
4. Viburnum trilobum	5	No	FACW	UPL species 0 x 5 = 0		
5				Column Totals: 158 (A) 328 (B)		
6				Prevalence Index = B/A = 2.08		
7				Hydrophytic Vegetation Indicators:		
	90	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation		
Herb Stratum (Plot size: 5' )				X 2 - Dominance Test is >50%		
1. Carex lacustris	8	Yes	OBL	X 3 - Prevalence Index is ≤3.0 <sup>1</sup>		
2. Cornus sericea	5	Yes	FACW	4 - Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)		
3. Equisetum arvense	5	Yes	FAC			
4. Lythrum salicaria	5	Yes	OBL	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)		
5.				<sup>1</sup> Indicators of hydric soil and wetland hydrology must be		
6.				present, unless disturbed or problematic.		
7.				Definitions of Vegetation Strata:		
8.				Tree – Woody plants 3 in. (7.6 cm) or more in diameter		
9.				at breast height (DBH), regardless of height.		
10.				Sapling/shrub – Woody plants less than 3 in. DBH		
11.				and greater than or equal to 3.28 ft (1 m) tall.		
12		Tatal Causa		Herb – All herbaceous (non-woody) plants, regardless		
Woody Vine Stratum (Plot size: 30' )	23	=Total Cover		of size, and woody plants less than 3.28 ft tall.		
1. Vitis aestivalis	5	Yes	FACU	<b>Woody vines</b> – All woody vines greater than 3.28 ft in height.		
		163	1700	neight.		
3.				Hydrophytic		
4.				Vegetation Present? Yes X No		
	5	=Total Cover		100 <u>X</u> 110 <u></u>		
Remarks: (Include photo numbers here or on a separa		- 10101 00101				
Tromano. (molado prioto framboro froto di di a sopari	ate officet.)					

Sampling Point: WET COOO-20

**SOIL** Sampling Point: WET COOO-20

Depth	Matrix			x Feature	es		onfirm the absence of i	,	
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks	
0-5	10YR 2/1	93	10YR 4/3	5	С	M	Loamy/Clayey	Distinct redox concentrations	
			10YR 3/6	2	С	PL		Prominent redox concentrations	
5-17	N 4/	60	10YR 4/3	15	С	М	Mucky Loam/Clay	Prominent redox concentrations	
			10YR 4/4	25	С	M		Prominent redox concentrations	
¹Type: C=Co	oncentration, D=Deple	etion, RM	=Reduced Matrix, M	S=Mask	ed Sand	Grains.	<sup>2</sup> Location: Pl	L=Pore Lining, M=Matrix.	
Hydric Soil I		,	,				Indicators for Problematic Hydric Soils <sup>3</sup> :		
Histosol	(A1)		Polyvalue Belov	w Surfac	ce (S8) (I	LRR R,	2 cm Mu	ck (A10) ( <b>LRR K, L, MLRA 149B</b> )	
	pipedon (A2)		MLRA 149B)	•				rairie Redox (A16) (LRR K, L, R)	
Black His			Thin Dark Surfa					cky Peat or Peat (S3) (LRR K, L, R)	
	n Sulfide (A4)		High Chroma S				Polyvalue Below Surface (S8) (LRR K, L)  This Dark Surface (S9) (LRR K, L)		
	l Layers (A5) I Below Dark Surface	(A11)	Loamy Mucky M X Loamy Gleyed			<b>₹ Ⅳ, ∟</b> )	Thin Dark Surface (S9) (LRR K, L)  Iron-Manganese Masses (F12) (LRR K, L, R)		
	rk Surface (A12)	(Δ11)	Depleted Matrix		۷)		Piedmont Floodplain Soils (F19) (MLRA 149B)		
	lucky Mineral (S1)		X Redox Dark Su	, ,	6)		Mesic Spodic (TA6) (MLRA 144A, 145, 149B)		
	leyed Matrix (S4)		Depleted Dark				Red Parent Material (F21)		
	edox (S5)		Redox Depress				Very Shallow Dark Surface (F22)		
Stripped	Matrix (S6)		Marl (F10) (LRI	R K, L)			Other (E	xplain in Remarks)	
Dark Sur	face (S7)								
<sup>3</sup> Indicators of	· hydraphytia vagatatic	on and w	atland budralagu muu	at ha ara	oont unl	loog digt:	irbad ar problematic		
	hydrophytic vegetation	on and w	stiand hydrology mus	st be pre	Sent, un	iess uistu	Problematic.		
Type:	, ,								
Depth (ir	nches):						Hydric Soil Presen	nt? Yes X No	
Remarks:							•		



Wetland COOO-20 View facing south



Wetland COOO-20 Soils

Segment 3 - Package 2

# **SITE PHOTOGRAPHS**

Project/Site: CHPE	City/County: Fort Ann / Washington Sampling Date: 11/15/21
Applicant/Owner: TDI	State: NY Sampling Point: UPL
Investigator(s): J. Greaves, C. Scrivner	Section, Township, Range:
Landform (hillside, terrace, etc.): Hillslope Local	relief (concave, convex, none): Convex Slope %: 35
Subregion (LRR or MLRA): LRR R Lat: 43-27-41.66N	Long: 73-26-26.65W Datum: WGS 84
Soil Map Unit Name: SB - Saprists, Aquepts, and Aquents	NWI classification: NA
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes X No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly disturb	<del></del>
Are Vegetation, Soil, or Hydrologynaturally problems	atic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sam	npling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No X	Is the Sampled Area
Hydric Soil Present? Yes No X	within a Wetland? Yes No X
Wetland Hydrology Present? Yes No X	If yes, optional Wetland Site ID:
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) Water-Stained Leaves (I	B9) Drainage Patterns (B10)
High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)
Saturation (A3) Marl Deposits (B15)	Dry-Season Water Table (C2)
Water Marks (B1) Hydrogen Sulfide Odor (	
Sediment Deposits (B2)  Oxidized Rhizospheres of	<u> </u>
Drift Deposits (B3) Presence of Reduced Iro	<u> </u>
Algal Mat or Crust (B4)Recent Iron Reduction ir	· · · · · · · · · · · · · · · · · · ·
Iron Deposits (B5)  Thin Muck Surface (C7)  Other (Figure in Bosonian Income in Income	• • • • •
Inundation Visible on Aerial Imagery (B7)Other (Explain in Remark	
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No _X Depth (inches):	
Water Table Present? Yes No X Depth (inches):	
Saturation Present? Yes No X Depth (inches):	:   Wetland Hydrology Present? Yes No _X
(includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	vious inspections), ii available.
Remarks:	

	Absolute	Dominant	Indicator		·	
ree Stratum (Plot size:)	% Cover	Species?	Status	Dominance Test worksheet:		
·				Number of Dominant Species That Are OBL, FACW, or FAC:	0	(A)
·				Total Number of Dominant Species Across All Strata:	1	_(B)
·				Percent of Dominant Species That Are OBL, FACW, or FAC:	0.0%	(A/B
·		<del>-</del>		Prevalence Index worksheet:		
		=Total Cover		Total % Cover of:	Multiply by:	
apling/Shrub Stratum (Plot size:15'	)			OBL species 0 x	1 = 0	
	_			FACW species 0 x	2 = 0	
					3 = 0	
				FACU species 90 x	4 = 360	
					5 = 50	
					A) 410	<u>—</u> (В
				Prevalence Index = B/A =		—`
	_			Hydrophytic Vegetation Indicat		
	_	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation		
erb Stratum (Plot size: 5' )		_		2 - Dominance Test is >50%		
Poa pratensis	70	Yes	FACU	3 - Prevalence Index is ≤3.0 <sup>1</sup>		
Plantago lanceolata	10	No	FACU	4 - Morphological Adaptations <sup>1</sup> (Provide suppo		
Rubia peregrina	10	No	UPL	data in Remarks or on a separate sheet)  Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)		
Lotus corniculatus	10	No	FACU			
20100 007/1/00/00/00						
				<sup>1</sup> Indicators of hydric soil and wetla present, unless disturbed or prob		must l
				Definitions of Vegetation Strata	<b>1</b> :	
		<del>-</del>		Tree – Woody plants 3 in. (7.6 cr at breast height (DBH), regardles		iamet
·	_			<ul> <li>Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.</li> </ul>		
	_	=Total Cover		Herb – All herbaceous (non-wood of size, and woody plants less that	dy) plants, rega	ardles
oody Vine Stratum (Plot size:30'	)	-		Woody vines – All woody vines g		28 ft ir
	_			height.		
				Hydrophytic		
	_			Vegetation		
				Present? Yes	No X	
		=Total Cover				

SOIL Sampling Point: UPL

Profile Desc Depth	ription: (Describe to Matrix	o the dep		iment the ox Feature		tor or co	onfirm the absence of indicators.)
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture Remarks
0-4	10YR 3/1	100					Sandy
4-7	10YR 4/2	100					Sandy
1- 0.0							21
Hydric Soil I	oncentration, D=Deple	etion, RM	=Reduced Matrix, M	S=Mask	ed Sand	Grains.	<sup>2</sup> Location: PL=Pore Lining, M=Matrix.  Indicators for Problematic Hydric Soils <sup>3</sup> :
Histosol			Polyvalue Belo	w Surfac	ce (S8) ( <b>L</b>	RR R,	2 cm Muck (A10) (LRR K, L, MLRA 149B)
	pipedon (A2)		MLRA 149B		` , `	•	Coast Prairie Redox (A16) (LRR K, L, R)
Black His	stic (A3)		Thin Dark Surf	ace (S9)	(LRR R,	MLRA 1	149B) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
Hydroge	n Sulfide (A4)		High Chroma S	3ands (S	11) (LRF	R K, L)	Polyvalue Below Surface (S8) (LRR K, L)
Stratified	l Layers (A5)		Loamy Mucky	Mineral (	F1) ( <b>LRF</b>	R K, L)	Thin Dark Surface (S9) (LRR K, L)
Depleted	Below Dark Surface	(A11)	Loamy Gleyed	Matrix (F	<del>-</del> 2)		Iron-Manganese Masses (F12) (LRR K, L, R)
Thick Da	ark Surface (A12)		Depleted Matri	x (F3)			Piedmont Floodplain Soils (F19) (MLRA 149B
Sandy M	lucky Mineral (S1)		Redox Dark Su	urface (F	6)		Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
Sandy G	leyed Matrix (S4)		Depleted Dark	Surface	(F7)		Red Parent Material (F21)
	edox (S5)		Redox Depres		3)		Very Shallow Dark Surface (F22)
	Matrix (S6)		Marl (F10) ( <b>LR</b>	R K, L)			Other (Explain in Remarks)
Dark Sur	face (S7)						
<sup>3</sup> Indicators of	hydrophytic vegetation	on and w	etland hydrology mu	et ha nra	eant unl	ace dietu	urhed or problematic
	_ayer (if observed):	on and w	stand Hydrology ma	ot be pre	Joint, am	coo diota	arbed of problematic.
Type:	Roc	:k					
Depth (ir	nches):	7					Hydric Soil Present? Yes No X
Remarks:							-



Upland COOO-20, CPPP-10, CPPP-11, CQQQ-4, and CRRR-7 View facing north



Upland COOO-20, CPPP-10, CPPP-11, CQQQ-4, and CRRR-7 Soils

Segment 3 - Package 2

**SITE PHOTOGRAPHS** 

Project/Site: CHPE	City/County: Fort Ann / Washington Sampling Date: 11/15/21						
Applicant/Owner: TDI	State: NY Sampling Point: WETCPPP-10						
Investigator(s): J. Greaves, C. Scrivner	Section, Township, Range:						
Landform (hillside, terrace, etc.): Depression Local r	relief (concave, convex, none): Concave Slope %: 3						
Subregion (LRR or MLRA): LRR R Lat: 43-27-40.19N	Long: 73-26-27.86W Datum: WGS 84						
Soil Map Unit Name: SB - Saprists, Aquepts, and Aquents	NWI classification: PEM1						
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes X No (If no, explain in Remarks.)						
Are Vegetation, Soil, or Hydrology significantly disturb	<del></del>						
Are Vegetation, Soil, or Hydrologynaturally problema	tic? (If needed, explain any answers in Remarks.)						
SUMMARY OF FINDINGS – Attach site map showing same	pling point locations, transects, important features, etc.						
Hydrophytic Vegetation Present? Yes X No	Is the Sampled Area						
Hydric Soil Present?  Yes X No	within a Wetland? Yes X No						
Wetland Hydrology Present? Yes X No	If yes, optional Wetland Site ID: Near Flag CPPP-10						
Remarks: (Explain alternative procedures here or in a separate report.)  Palustrine Emergent Marsh - Cattail Marsh. Edinger classification: Shallow Emergent Marsh.							
HYDROLOGY							
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)						
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)						
X Surface Water (A1) Water-Stained Leaves (E	Drainage Patterns (B10)						
X High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)						
X Saturation (A3) — Marl Deposits (B15)	Dry-Season Water Table (C2)						
Water Marks (B1) Hydrogen Sulfide Odor (							
Sediment Deposits (B2) Oxidized Rhizospheres of							
Drift Deposits (B3) Presence of Reduced Iro	• • • • • • • • • • • • • • • • • • • •						
Algal Mat or Crust (B4) Recent Iron Reduction in	· · · · · · · · · · · · · · · · · · ·						
Iron Deposits (B5) — Thin Muck Surface (C7)	Shallow Aquitard (D3)						
Inundation Visible on Aerial Imagery (B7)Other (Explain in Remark	<u> </u>						
Sparsely Vegetated Concave Surface (B8)	X FAC-Neutral Test (D5)						
Field Observations:							
Surface Water Present? Yes X No Depth (inches):	·						
Water Table Present? Yes X No Depth (inches):							
Saturation Present? Yes X No Depth (inches):	0 Wetland Hydrology Present? Yes X No						
(includes capillary fringe)							
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre-	vious inspections), if available:						
Remarks:							

Tree Stratum (Plot size: 30' )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1 2				Number of Dominant Species That Are OBL, FACW, or FAC:(A)
3. 4.				Total Number of Dominant Species Across All Strata:(B)
5 6				Percent of Dominant Species That Are OBL, FACW, or FAC:(A/B)
7				Prevalence Index worksheet:
		=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size:15')				OBL species 98 x 1 = 98
1. Cornus sericea	6	Yes	FACW	FACW species 8 x 2 = 16
2				FAC species 0 x 3 = 0
3.				FACU species0 x 4 =0
4.				UPL species0 x 5 =0
5				Column Totals:106 (A)114 (B)
6.				Prevalence Index = B/A =1.08
7				Hydrophytic Vegetation Indicators:
	6	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5' )				X 2 - Dominance Test is >50%
1. Typha latifolia	90	Yes	OBL	X 3 - Prevalence Index is ≤3.0 <sup>1</sup>
2. Sparganium americanum	8	No	OBL	4 - Morphological Adaptations (Provide supporting
3. Onoclea sensibilis	2	No	FACW	data in Remarks or on a separate sheet)
4				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5				<sup>1</sup> Indicators of hydric soil and wetland hydrology must be
6.				present, unless disturbed or problematic.
7.				Definitions of Vegetation Strata:
8.				Tree Weeds plants 2 in (7.6 cm) or more in diameter
9.				<b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
10.				Continued to the Manufacture for the Continue DDU
11.	-			Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
12.	1			
	100	=Total Cover		<b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size: 30' )	100	-10101 00101		
				Woody vines – All woody vines greater than 3.28 ft in height.
2.	(			nogn.
3.				Hydrophytic
				Vegetation No. No.
4.				Present?
	-	=Total Cover		
Remarks: (Include photo numbers here or on a separ	ate sheet.)			

Sampling Point: WET CPPP-10

**SOIL** Sampling Point: WET CPPP-10

		the dep				or or co	nfirm the absence of indicate	ors.)
Depth	Matrix			x Featur		. 2	<del>-</del> .	<b>5</b> .
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
					—			
<sup>1</sup> Type: C=Co	ncentration, D=Deple	tion RM-	Reduced Matrix M	S–Mask	ed Sand (	Grains	<sup>2</sup> Location: PL=Pore	Lining M-Matrix
Hydric Soil Ir			rtoadood Matrix, M	<u>U-Mach</u>	ou ound	Oranio.		lematic Hydric Soils <sup>3</sup> :
Histosol (			Polyvalue Belo	w Surfac	e (S8) ( <b>L</b>	RR R.		) (LRR K, L, MLRA 149B)
	pedon (A2)	•	MLRA 149B		() (	,		edox (A16) ( <b>LRR K, L, R</b> )
Black His			Thin Dark Surfa		(LRR R,	MLRA 1		at or Peat (S3) (LRR K, L, R)
	Sulfide (A4)	•	— High Chroma S					Surface (S8) (LRR K, L)
	Layers (A5)	•	Loamy Mucky I					ce (S9) (LRR K, L)
	Below Dark Surface	(A11)	Loamy Gleyed			, ,		Masses (F12) (LRR K, L, R)
	k Surface (A12)	` ′ .	Depleted Matrix	•	,			plain Soils (F19) (MLRA 149B)
	ıcky Mineral (S1)	•	Redox Dark Su	ırface (F	6)			A6) (MLRA 144A, 145, 149B)
	eyed Matrix (S4)	•	Depleted Dark				Red Parent Mate	
Sandy Re		•	Redox Depress		. ,			ark Surface (F22)
	Matrix (S6)	•	 Marl (F10) ( <b>LR</b>		,		X Other (Explain in	
Dark Surf	ace (S7)	•						
	,							
<sup>3</sup> Indicators of	hydrophytic vegetatio	n and we	tland hydrology mu:	st be pre	sent, unle	ess distur	bed or problematic.	
	ayer (if observed):		, J		-		•	
Type:								
Depth (in	ches):						Hydric Soil Present?	Yes X No
Remarks:								
	cted due to a foot of i	nundation	and dominance of	FACW a	nd OBL s	species.		
. 10 000			aa aa		022	, p 0 0.00.		



Wetland CPPP-10 View facing north/northwest

Segment 3 - Package 2

**SITE PHOTOGRAPHS** 

Project/Site: CHPE	City/County: Fort Ann / Washington Sampling Date: 11/15/21
Applicant/Owner: TDI	State: NY Sampling Point: WET CPPP-11
Investigator(s): J. Greaves, C. Scrivner	Section, Township, Range:
Landform (hillside, terrace, etc.): Depression Local	relief (concave, convex, none): Concave Slope %: 2
Subregion (LRR or MLRA): LRR R Lat: 43-27-37.50N	Long: 73-26-28.33W Datum: WGS 84
Soil Map Unit Name: OP - Orthents and Psamments	NWI classification: PSS1
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes X No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrologysignificantly disturb	
Are Vegetation, Soil, or Hydrologynaturally problems	atic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing same	npling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes X No	Is the Sampled Area
Hydric Soil Present?  Yes X No	within a Wetland? Yes X No
Wetland Hydrology Present? Yes X No	If yes, optional Wetland Site ID: Near Flag CPPP-11
Palustrine Scrubshrub Wetland. Edinger classification: Shrub Swamp.	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
X Surface Water (A1) X Water-Stained Leaves (I	B9) Drainage Patterns (B10)
X High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)
X Saturation (A3) Marl Deposits (B15)	Dry-Season Water Table (C2)
Water Marks (B1) Hydrogen Sulfide Odor (	
Sediment Deposits (B2)  Oxidized Rhizospheres of	
Drift Deposits (B3) Presence of Reduced Iro	
Algal Mat or Crust (B4)  Recent Iron Reduction in	
Iron Deposits (B5)  — Thin Muck Surface (C7)  — Other (Figure in Person (P7)  — Other (Figure in Person (P7)	. ,
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remar	<u> </u>
Sparsely Vegetated Concave Surface (B8)	X FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes X No Depth (inches):	
Water Table Present? Yes X No Depth (inches): Saturation Present? Yes X No Depth (inches):	
	:0 Wetland Hydrology Present? Yes X No
(includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	avious inspections), if available:
Describe Necorded Data (stream gauge, monitoring won, acria, priotos, pro	inspections), ii avaliabie.
Remarks:	
Remarks.	

Tree Stratum (Plot size:30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1 2		·		Number of Dominant Species That Are OBL, FACW, or FAC: (A)
3.         4.				Total Number of Dominant Species Across All Strata:4(B)
5. 6.		- ———		Percent of Dominant Species That Are OBL, FACW, or FAC:(A/B)
7				Prevalence Index worksheet:
		=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size:)				OBL species 5 x 1 = 5
1. Cornus sericea	70	Yes	FACW	FACW species 110 x 2 = 220
2. Alnus incana	30	Yes	FACW	FAC species 0 x 3 = 0
3.				FACU species 0 x 4 = 0
4				UPL species0 x 5 =0
5.				Column Totals: 115 (A) 225 (B)
6.				Prevalence Index = B/A = 1.96
7.				Hydrophytic Vegetation Indicators:
	100	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5' )	100	_ Total Gover		X 2 - Dominance Test is >50%
	10	Voo	EAC\\\	
1. Onoclea sensibilis		Yes	FACW	X 3 - Prevalence Index is ≤3.0¹
2. Carex stricta 3.	5	Yes	OBL	4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
4		<u> </u>		Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5. 6.				<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
7				Definitions of Vegetation Strata:
9.				<b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
10 11				Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
12.				Herb – All herbaceous (non-woody) plants, regardless
	15	=Total Cover		of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size:30') 1.				Woody vines – All woody vines greater than 3.28 ft in height.
2				- national control of the control of
2				Hydrophytic
	-			Vegetation No. 1
4	-			Present?
		=Total Cover		
Remarks: (Include photo numbers here or on a separ	ate sheet.)			

Sampling Point: WET CPPP-11

SOIL Sampling Point: WET CPPP-11

		the dep				or or cor	nfirm the absence of indicator	rs.)
Depth	Matrix			x Featur		. 2	<del>-</del> .	5
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
		·						
<sup>1</sup> Type: C=Co	ncentration, D=Deple	tion RM-	-Reduced Matrix M	S-Mask	ed Sand (	Grains	<sup>2</sup> Location: PL=Pore L	ining M-Matrix
Hydric Soil Ir		don, raw-	-reduced Matrix, M	O-Masik	ca Garia	Oranio.		ematic Hydric Soils <sup>3</sup> :
Histosol (			Polyvalue Belo	w Surfac	ce (S8) ( <b>L</b>	RR R.		(LRR K, L, MLRA 149B)
	pedon (A2)		MLRA 149B		() (-	,		dox (A16) ( <b>LRR K, L, R</b> )
Black His			Thin Dark Surfa	•	(LRR R,	MLRA 1		or Peat (S3) (LRR K, L, R)
	Sulfide (A4)		High Chroma S					Surface (S8) (LRR K, L)
	Layers (A5)		Loamy Mucky I					e (S9) ( <b>LRR K, L</b> )
	Below Dark Surface	(A11)	Loamy Gleyed			, ,		Masses (F12) (LRR K, L, R)
	rk Surface (A12)	` ,	Depleted Matri	•	,			lain Soils (F19) (MLRA 149B)
	ucky Mineral (S1)		Redox Dark Su	ırface (F	6)			A6) (MLRA 144A, 145, 149B)
	eyed Matrix (S4)		Depleted Dark				Red Parent Mater	
Sandy Re			Redox Depress				Very Shallow Dar	, ,
	Matrix (S6)		 Marl (F10) ( <b>LR</b>		,		X Other (Explain in	
Dark Surf	ace (S7)							
	,							
<sup>3</sup> Indicators of	hydrophytic vegetatio	n and we	tland hydrology mu:	st be pre	sent, unle	ess distur	bed or problematic.	
	ayer (if observed):		, ,,		-		•	
Type:								
Depth (in	ches):						Hydric Soil Present?	Yes X No
							,	
Remarks:	cted due to a foot of i	nundation	and a dominance (	of EACW	/ and OBI	enacias		
140 30113 00110	olda add to a loot of ii	nanaalloi	and a dominance (	31 1 710 11	and Obl	_ 0000100	•	



Wetland CPPP-11 View facing south

Segment 3 - Package 2

**SITE PHOTOGRAPHS** 

Project/Site: CHPE	City/County: Fort Ann / Washington Sampling Date: 11/15/21				
Applicant/Owner: TDI	State: NY Sampling Point: WET COQO-4				
Investigator(s): J. Greaves, C. Scrivner	Section, Township, Range:				
Landform (hillside, terrace, etc.): Depression Local r	relief (concave, convex, none): Concave Slope %: 5				
Subregion (LRR or MLRA): LRR R Lat: 43-27-29.04N	Long: 73-26-29.50W Datum: WGS 84				
Soil Map Unit Name: SB - Saprists, Aquepts, and Aquents	NWI classification: PSS1				
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes X No (If no, explain in Remarks.)				
Are Vegetation, Soil, or Hydrology significantly disturb					
Are Vegetation, Soil, or Hydrologynaturally problema	atic? (If needed, explain any answers in Remarks.)				
SUMMARY OF FINDINGS – Attach site map showing sam	pling point locations, transects, important features, etc.				
Hydrophytic Vegetation Present? Yes X No	Is the Sampled Area				
Hydric Soil Present? Yes X No	within a Wetland? Yes X No				
Wetland Hydrology Present? Yes X No	If yes, optional Wetland Site ID: Near Flag CQQQ-4				
Palustrine Scrubshrub Wetland. Edinger classification: Shrub Swamp.					
HYDROLOGY					
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)				
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)				
Surface Water (A1) X Water-Stained Leaves (E	<del></del>				
High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)				
X Saturation (A3) — Marl Deposits (B15)	Dry-Season Water Table (C2)				
Water Marks (B1) Hydrogen Sulfide Odor (C					
X Sediment Deposits (B2) Oxidized Rhizospheres o	<u> </u>				
Drift Deposits (B3) Presence of Reduced Iro					
Algal Mat or Crust (B4)  Recent Iron Reduction in					
Iron Deposits (B5)  Thin Muck Surface (C7)	Shallow Aquitard (D3)				
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remark	<u> </u>				
Sparsely Vegetated Concave Surface (B8)	X FAC-Neutral Test (D5)				
Field Observations:					
Surface Water Present? Yes No _X Depth (inches):					
Water Table Present? Yes No X Depth (inches):					
Saturation Present? Yes X No Depth (inches):	Wetland Hydrology Present? Yes X No				
(includes capillary fringe)					
Describe Recorded Data (stream gauge, monitoring well, aerial photos, prev	vious inspections), if available:				
Remarks:					

Tree Stratum (Plot size:30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
2.				Number of Dominant Species That Are OBL, FACW, or FAC:(A)
3. 4.		<u> </u>		Total Number of Dominant Species Across All Strata: (B)
5.       6.				Percent of Dominant Species That Are OBL, FACW, or FAC: 66.7% (A/B)
7				Prevalence Index worksheet:
		=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15' )				OBL species0 x 1 =0
1. Alnus incana	90	Yes	FACW	FACW species145 x 2 =290
2. Cornus sericea	5	No	FACW	FAC species 0 x 3 = 0
3. Lonicera morrowii	5	No	FACU	FACU species12 x 4 =48
4				UPL species 0 x 5 = 0
5				Column Totals: 157 (A) 338 (B)
6				Prevalence Index = B/A = 2.15
7				Hydrophytic Vegetation Indicators:
	100	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5' )	_			X 2 - Dominance Test is >50%
1. Onoclea sensibilis	50	Yes	FACW	X 3 - Prevalence Index is ≤3.0 <sup>1</sup>
2. Lonicera morrowii	2	No	FACU	4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
4.				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5 6				<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
7.				Definitions of Vegetation Strata:
8				Tree – Woody plants 3 in. (7.6 cm) or more in diameter
9				at breast height (DBH), regardless of height.
10				Sapling/shrub – Woody plants less than 3 in. DBH
11				and greater than or equal to 3.28 ft (1 m) tall.
12				Herb – All herbaceous (non-woody) plants, regardless
	52	=Total Cover		of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size: 30' )				Woody vines – All woody vines greater than 3.28 ft in
1. Vitis aestivalis	5	Yes	FACU	height.
2				l
3				Hydrophytic Vegetation
4				Present? Yes X No No
	5	=Total Cover		
Remarks: (Include photo numbers here or on a separa	ate sheet.)			

Sampling Point: WET CQQQ-4

SOIL Sampling Point: WET CQQQ-4

	Matrix		Redo	x Featur	es			
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-8	10YR 2/1	80	10YR 4/2	20	С	М	Loamy/Clayey	Faint redox concentrations
8-16	N 3/	65	10YR 5/3	15	С	М	Loamy/Clayey	Prominent redox concentrations
			7.5YR 4/6	20	С	М		Prominent redox concentrations
						—		
								_
	oncentration, D=Depl	etion, RM=	Reduced Matrix, M	S=Mask	ed Sand	Grains.		L=Pore Lining, M=Matrix.
Hydric Soil I			Daharaha Dala	0	- (CO) (I	DD D		or Problematic Hydric Soils <sup>3</sup> :
Histosol	(A1) iipedon (A2)		Polyvalue Belo MLRA 149B		e (58) ( <b>L</b>	KK K,		ck (A10) ( <b>LRR K, L, MLRA 149B</b> ) rairie Redox (A16) ( <b>LRR K, L, R</b> )
Black His			Thin Dark Surf	,	(LRR R,	MLRA 14		cky Peat or Peat (S3) (LRR K, L, R)
	n Sulfide (A4)	•	High Chroma S					e Below Surface (S8) (LRR K, L)
Stratified	Layers (A5)	•	Loamy Mucky	Mineral (	F1) ( <b>LRF</b>	R K, L)	Thin Dar	k Surface (S9) (LRR K, L)
Depleted	l Below Dark Surface	(A11)	Loamy Gleyed	Matrix (F	-2)		Iron-Man	nganese Masses (F12) ( <b>LRR K, L, R</b> )
	rk Surface (A12)		Depleted Matri					t Floodplain Soils (F19) ( <b>MLRA 149B</b> )
	lucky Mineral (S1)	•	X Redox Dark Su					podic (TA6) ( <b>MLRA 144A, 145, 149B</b> )
	leyed Matrix (S4)		Depleted Dark		` '			ent Material (F21)
	edox (S5)		Redox Depres		3)			allow Dark Surface (F22)
	Matrix (S6)	•	Marl (F10) ( <b>LR</b>	K K, L)			Other (E.	xplain in Remarks)
	faco (\$7)							
	face (S7)							
Dark Sur	face (S7)  hydrophytic vegetati	on and we	tland hydrology mu	st be pre	sent, unl	ess distur	bed or problematic.	
Dark Sur	, ,	on and we	tland hydrology mu	st be pre	sent, unl	ess distur	bed or problematic.	
Dark Sur	hydrophytic vegetati	on and we	tland hydrology mu	st be pre	sent, unl	ess distur	bed or problematic.	
Dark Sun  3Indicators of  Restrictive I	hydrophytic vegetati ayer (if observed):	on and we	tland hydrology mu	st be pre	sent, unl	ess distur	bed or problematic.  Hydric Soil Presen	nt? Yes <u>X</u> No
Dark Sun  3Indicators of  Restrictive I  Type:  Depth (in	hydrophytic vegetaticayer (if observed):						Hydric Soil Presen	nt? Yes <u>X</u> No
Dark Sun  3Indicators of  Restrictive I  Type:  Depth (in	hydrophytic vegetati ayer (if observed):						Hydric Soil Presen	nt? Yes <u>X</u> No
Dark Sun  3Indicators of  Restrictive I  Type:  Depth (in	hydrophytic vegetaticayer (if observed):						Hydric Soil Presen	nt? Yes <u>X</u> No
Dark Sun  3Indicators of  Restrictive I  Type:  Depth (in	hydrophytic vegetaticayer (if observed):						Hydric Soil Presen	nt? Yes <u>X</u> No
Dark Sun  3Indicators of  Restrictive I  Type:  Depth (in	hydrophytic vegetaticayer (if observed):						Hydric Soil Presen	nt? Yes <u>X</u> No
Dark Sun  3Indicators of  Restrictive I  Type:  Depth (in	hydrophytic vegetaticayer (if observed):						Hydric Soil Presen	nt? Yes <u>X</u> No
Dark Sun  3Indicators of  Restrictive I  Type:  Depth (in	hydrophytic vegetaticayer (if observed):						Hydric Soil Presen	nt? Yes <u>X</u> No
Dark Sun  3Indicators of  Restrictive I  Type:  Depth (in	hydrophytic vegetaticayer (if observed):						Hydric Soil Presen	nt? Yes <u>X</u> No
Dark Sun  3Indicators of  Restrictive I  Type:  Depth (in	hydrophytic vegetaticayer (if observed):						Hydric Soil Presen	nt? Yes <u>X</u> No
Dark Sun  3Indicators of  Restrictive I  Type:  Depth (in	hydrophytic vegetaticayer (if observed):						Hydric Soil Presen	nt? Yes <u>X</u> No
Dark Sun  3Indicators of  Restrictive I  Type:  Depth (in	hydrophytic vegetaticayer (if observed):						Hydric Soil Presen	nt? Yes <u>X</u> No
Dark Sun  3Indicators of  Restrictive I  Type:  Depth (in	hydrophytic vegetaticayer (if observed):						Hydric Soil Presen	nt? Yes <u>X</u> No



Wetland CQQQ-4 View facing west



Wetland CQQQ-4 Soils

Segment 3 - Package 2

# **SITE PHOTOGRAPHS**

Project/Site: CHPE	City/County: Fort Ann / Washington Sampling Date: 11/15/21				
Applicant/Owner: TDI	State: NY Sampling Point: WET CRRR-7				
Investigator(s): J. Greaves, C. Scrivner	Section, Township, Range:				
Landform (hillside, terrace, etc.): Depression Local r	relief (concave, convex, none): Concave Slope %: 3				
Subregion (LRR or MLRA): LRR R Lat: 43-27-27.20N	Long: 73-26-30.02W Datum: WGS 84				
Soil Map Unit Name: HNC - Hollis-Rock outcrop association, gently sloping					
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes X No (If no, explain in Remarks.)				
Are Vegetation, Soil, or Hydrology significantly disturb					
Are Vegetation , Soil , or Hydrology naturally problema					
SUMMARY OF FINDINGS – Attach site map showing sam					
Hydrophytic Vegetation Present? Yes X No	Is the Sampled Area				
Hydric Soil Present?  Yes X No	within a Wetland? Yes X No				
Wetland Hydrology Present? Yes X No	If yes, optional Wetland Site ID: Near Flag CRRR-7				
Palustrine Scrubshrub Wetland. Edinger classification: Shrub Swamp.					
HYDROLOGY					
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)				
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)				
X Surface Water (A1) X Water-Stained Leaves (B9) Drainage Patterns (B10)					
X High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)				
X Saturation (A3) — Marl Deposits (B15)	Dry-Season Water Table (C2)				
Water Marks (B1)  Hydrogen Sulfide Odor (					
X Sediment Deposits (B2) Oxidized Rhizospheres o					
Drift Deposits (B3) Presence of Reduced Iro	<u> </u>				
Algal Mat or Crust (B4)Recent Iron Reduction in	· · · · · · · · · · · · · · · · · · ·				
Iron Deposits (B5) ——Thin Muck Surface (C7) ——Thin Muck Surface (C7) ——Thin Muck Surface (C7) ——Thin Muck Surface (C7)	Shallow Aquitard (D3)  Microtopographic Relief (D4)				
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remark					
X Sparsely Vegetated Concave Surface (B8)	X FAC-Neutral Test (D5)				
Field Observations:	40				
Surface Water Present? Yes X No Depth (inches):  Water Table Present? Yes X No Depth (inches):					
Water Table Present? Yes X No Depth (inches): Saturation Present? Yes X No Depth (inches):					
(includes capillary fringe)	Wellallu flyulology Fleselit: 165 A NO				
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre					
Describe Necoraca Data (stream gauge, montrolling well, actial prictes, p. e	vious inspections), ii avaliabio.				
Remarks:					
Remarks.					

Sapling/Shrub Stratum         (Plot size:         15'         )           1. Alnus incana         75           2. Cornus sericea         10           3. Lonicera morrowii         5           4.         5           6.         7	Total Cover  Yes  No  No  Total Cover	FACW FACU	Number of Dominant Species         2           That Are OBL, FACW, or FAC:         2           Total Number of Dominant         2           Species Across All Strata:         2           Percent of Dominant Species         100.0%           That Are OBL, FACW, or FAC:         100.0%           Prevalence Index worksheet:         Multiply b           OBL species         5         x 1 =         5           FACW species         85         x 2 =         17           FAC species         0         x 3 =         0           FACU species         5         x 4 =         20           UPL species         0         x 5 =         0           Column Totals:         95         (A)         19           Prevalence Index = B/A =         2.05           Hydrophytic Vegetation Indicators:         1 - Rapid Test for Hydrophytic Vegetation	<i>y</i> :
4.	Yes No No Total Cover	FACW	Species Across All Strata:         2           Percent of Dominant Species That Are OBL, FACW, or FAC:         100.0%           Prevalence Index worksheet:           Total % Cover of:         Multiply b           OBL species         5         x 1 =         5           FACW species         85         x 2 =         17           FAC species         0         x 3 =         0           FACU species         5         x 4 =         20           UPL species         0         x 5 =         0           Column Totals:         95         (A)         19           Prevalence Index = B/A =         2.05           Hydrophytic Vegetation Indicators:	(A/B)
6.	Yes No No Total Cover	FACW	That Are OBL, FACW, or FAC: 100.0%           Prevalence Index worksheet:           Total % Cover of: Multiply b           OBL species 5 x 1 = 5           FACW species 85 x 2 = 17           FAC species 0 x 3 = 0           FACU species 5 x 4 = 20           UPL species 0 x 5 = 0           Column Totals: 95 (A) 19           Prevalence Index = B/A = 2.05           Hydrophytic Vegetation Indicators:	<i>y</i> :
7	Yes No No Total Cover	FACW	Total % Cover of:         Multiply b           OBL species         5         x 1 =         5           FACW species         85         x 2 =         17           FAC species         0         x 3 =         0           FACU species         5         x 4 =         20           UPL species         0         x 5 =         0           Column Totals:         95         (A)         19           Prevalence Index = B/A =         2.05           Hydrophytic Vegetation Indicators:	5 (B)
Sapling/Shrub Stratum       (Plot size:	Yes No No Total Cover	FACW	OBL species         5         x 1 =         5           FACW species         85         x 2 =         17           FAC species         0         x 3 =         0           FACU species         5         x 4 =         20           UPL species         0         x 5 =         0           Column Totals:         95         (A)         19           Prevalence Index = B/A =         2.05           Hydrophytic Vegetation Indicators:	5 (B)
1. Alnus incana       75         2. Cornus sericea       10         3. Lonicera morrowii       5         4.	No No	FACW	FACW species         85         x 2 =         17           FAC species         0         x 3 =         0           FACU species         5         x 4 =         20           UPL species         0         x 5 =         0           Column Totals:         95         (A)         19           Prevalence Index = B/A =         2.05           Hydrophytic Vegetation Indicators:	5 (B)
2. Cornus sericea       10         3. Lonicera morrowii       5         4.	No No	FACW	FAC species         0         x 3 =         0           FACU species         5         x 4 =         20           UPL species         0         x 5 =         0           Column Totals:         95         (A)         19           Prevalence Index = B/A =         2.05           Hydrophytic Vegetation Indicators:	5 (B)
3. Lonicera morrowii 5 4. 5. 6. 7. 90 =	No Total Cover		FACU species $5 \times 4 = 20$ UPL species $0 \times 5 = 0$ Column Totals: $95 \times 4 = 20$ Prevalence Index $= B/A = 2.05$ Hydrophytic Vegetation Indicators:	5 (B)
4	Total Cover	FACU	UPL species 0 x 5 = 0  Column Totals: 95 (A) 19  Prevalence Index = B/A = 2.05  Hydrophytic Vegetation Indicators:	5 (B)
5	Total Cover		Column Totals: 95 (A) 19 Prevalence Index = B/A = 2.05  Hydrophytic Vegetation Indicators:	5 (B)
6	Total Cover		Prevalence Index = B/A = 2.05  Hydrophytic Vegetation Indicators:	```
7			Hydrophytic Vegetation Indicators:	
7				
Herb Stratum (Plot size: 5' )			1 - Rapid Test for Hydrophytic Vegetation	
	Ves			
	Vas		X 2 - Dominance Test is >50%	
	103	OBL	X 3 - Prevalence Index is ≤3.0 <sup>1</sup>	
2			4 - Morphological Adaptations <sup>1</sup> (Provide s	
3			·	
4			Problematic Hydrophytic Vegetation <sup>1</sup> (Ex	olain)
5			<sup>1</sup> Indicators of hydric soil and wetland hydrolog present, unless disturbed or problematic.	y must be
7			Definitions of Vegetation Strata:	
8			Tree – Woody plants 3 in. (7.6 cm) or more in at breast height (DBH), regardless of height.	diameter
10.				
11.			Sapling/shrub – Woody plants less than 3 in and greater than or equal to 3.28 ft (1 m) tall.	. DBH
12 5 =	Total Cover		Herb – All herbaceous (non-woody) plants, re of size, and woody plants less than 3.28 ft tal	
Woody Vine Stratum (Plot size: 30')  1.			Woody vines – All woody vines greater than	3.28 ft in
			height.	
2			Hydrophytic	
3.			Vegetation	
4			Present?	
= <sup>=</sup>	Total Cover			

Sampling Point: WET CRRR-7

SOIL Sampling Point: WET CRRR-7

	iption: (Describe to	the depth	needed to docu	ment the	e indicat	or or co	onfirm the absence of indicators.)			
Depth	Matrix			x Feature						
(inches)	Color (moist)	%	Color (moist)	<u>%</u>	Type <sup>1</sup>	Loc <sup>2</sup>	Texture Remarks			
							<u> </u>			
		<del></del>								
<sup>1</sup> Type: C=Co	ncentration, D=Deple	tion, RM=R	educed Matrix, M	S=Mask	ed Sand (	Grains.	<sup>2</sup> Location: PL=Pore Lining, M=Matrix.			
Hydric Soil Ir	ndicators:						Indicators for Problematic Hydric Soils <sup>3</sup> :			
Histosol (	A1)	_	Polyvalue Belo	w Surfac	e (S8) ( <b>L</b>	RR R,	2 cm Muck (A10) ( <b>LRR K, L, MLRA 149B</b> )			
Histic Epi	pedon (A2)		MLRA 149B	i)			Coast Prairie Redox (A16) (LRR K, L, R)			
Black His	tic (A3)	_	Thin Dark Surfa				149B) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R)			
Hydrogen	Sulfide (A4)	_	High Chroma S				Polyvalue Below Surface (S8) (LRR K, L)			
	Layers (A5)	_	Loamy Mucky I			(K, L)	Thin Dark Surface (S9) (LRR K, L)			
	Below Dark Surface	(A11) <u> </u>	Loamy Gleyed		<del>-</del> 2)		Iron-Manganese Masses (F12) (LRR K, L, R)			
	k Surface (A12)	_	Depleted Matrix		۵)		Piedmont Floodplain Soils (F19) (MLRA 149B)			
	ucky Mineral (S1)	_	Redox Dark Su				Mesic Spodic (TA6) (MLRA 144A, 145, 149B)			
	eyed Matrix (S4)	_	Depleted Dark		. ,		Red Parent Material (F21)			
Stripped I	Matrix (S6)		Redox Depress Marl (F10) (LR		<i>&gt;)</i>		Very Shallow Dark Surface (F22) X Other (Explain in Remarks)			
Dark Surf		_		it it, L)			X other (Explain in Fernance)			
Daik Guii	acc (Gr)									
<sup>3</sup> Indicators of	hydrophytic vegetatio	n and wetla	and hydrology mu	st be pre	sent, unle	ess distu	urbed or problematic.			
	ayer (if observed):									
Type:										
Depth (in	ches):						Hydric Soil Present? Yes X No			
Remarks:							<u> </u>			
	n due to having a foo	t of inundati	ion and a domina	nce of F/	ACW and	OBL spe	pecies.			
	-									



Wetland CRRR-7 View facing north

Segment 3 - Package 2

**SITE PHOTOGRAPHS** 

Project/Site: CHPE	City/County: Fort Ann / Washington Sampling Date: 11/15/21
Applicant/Owner: TDI	State: NY Sampling Point: UPL CRRR-7
Investigator(s): J. Greaves, C. Scrivner	Section, Township, Range:
Landform (hillside, terrace, etc.): Hillslope Local	relief (concave, convex, none): Convex Slope %: 20
Subregion (LRR or MLRA): LRR R Lat: 43-27-26.97N	Long: 73-26-29.85W Datum: WGS 84
Soil Map Unit Name: HNC - Hollis-Rock outcrop association, gently sloping	
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes X No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly distur	
Are Vegetation, Soil, or Hydrologynaturally problems	atic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing san	mpling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No X	Is the Sampled Area
Hydric Soil Present? Yes No X	within a Wetland? Yes No X
Wetland Hydrology Present? Yes No X	If yes, optional Wetland Site ID:
Mowed roadside.	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) Water-Stained Leaves (	(B9) Drainage Patterns (B10)
High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)
Saturation (A3) Marl Deposits (B15)	Dry-Season Water Table (C2)
Water Marks (B1) Hydrogen Sulfide Odor (	
Sediment Deposits (B2)  Oxidized Rhizospheres	
Drift Deposits (B3) Presence of Reduced In	· ,
Algal Mat or Crust (B4)Recent Iron Reduction in	
Iron Deposits (B5)  — Thin Muck Surface (C7)  — Other (Figure in Removal)	
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remar Sparsely Vegetated Concave Surface (B8)	
	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No X Depth (inches):	
Water Table Present? Yes No X Depth (inches): Saturation Present? Yes No X Depth (inches):	
	:   Wetland Hydrology Present? Yes No _X
(includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	evious inspections) if available:
Describe Recorded Data (stream gauge, monitoring well, acrial photos, pre	svious inspections), il available.
Remarks:	

<u>Tree Stratum</u> (Plot size:)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1 2				Number of Dominant Species That Are OBL, FACW, or FAC: (A)
3. 4.				Total Number of Dominant Species Across All Strata: 1 (B)
<ul><li>5.</li><li>6.</li></ul>		·		Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)
7.		<u> </u>		Prevalence Index worksheet:
		=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15' )				OBL species0 x 1 =0
1				FACW species 0 x 2 = 0
2				FAC species 0 x 3 = 0
3.				FACU species 90 x 4 = 360
4.				UPL species10 x 5 =50
5.				Column Totals: 100 (A) 410 (B)
6.				Prevalence Index = B/A = 4.10
7.				Hydrophytic Vegetation Indicators:
		=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5' )		•		2 - Dominance Test is >50%
1. Poa pratensis	70	Yes	FACU	3 - Prevalence Index is ≤3.0 <sup>1</sup>
Plantago lanceolata	10	No	FACU	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
3. Rubia peregrina	10	No	UPL	data in Remarks or on a separate sheet)
4. Lotus corniculatus	10	No	FACU	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5.				
6.		·		<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
7.				Definitions of Vegetation Strata:
8.				
9.				<b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
11.		·		Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
12				Herb – All herbaceous (non-woody) plants, regardless
	100	=Total Cover		of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size: 30' )  1.				Woody vines – All woody vines greater than 3.28 ft in height.
				Hydrophytic
4		· ——		Vegetation Present? Yes No X
4.		=Total Cover		Tresent: res NoX_
Describe (lacked what a comband has an area a comband		- Total Cover		
Remarks: (Include photo numbers here or on a separa	ate sheet.)			

Sampling Point: UPL CRRR-7

SOIL Sampling Point: UPL CRRR-7

		o the dep				or or co	onfirm the absence of indicators.)
Depth	Matrix			x Featur		. 2	
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture Remarks
0-4	10YR 3/1	100					Sandy
4-7	10YR 4/2	100					Sandy
							<del></del>
<sup>1</sup> Type: C=Co	ncentration, D=Deple	etion, RM:	=Reduced Matrix, M	S=Mask	ed Sand (	Grains.	<sup>2</sup> Location: PL=Pore Lining, M=Matrix.
Hydric Soil II							Indicators for Problematic Hydric Soils <sup>3</sup> :
Histosol (			Polyvalue Belo		ce (S8) ( <b>L</b>	RR R,	2 cm Muck (A10) (LRR K, L, MLRA 149B)
	pedon (A2)		MLRA 149B	•	(I DD D	MIDAA	Coast Prairie Redox (A16) (LRR K, L, R)
Black His	n Sulfide (A4)		Thin Dark Surfa				149B) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Polyvalue Below Surface (S8) (LRR K, L)
	Layers (A5)		Loamy Mucky I				Thin Dark Surface (S9) (LRR K, L)
	Below Dark Surface	(A11)	Loamy Gleyed			, =/	Iron-Manganese Masses (F12) (LRR K, L, R)
	rk Surface (A12)	(,,,,	Depleted Matrix	•	_/		Piedmont Floodplain Soils (F19) (MLRA 149B
	ucky Mineral (S1)		Redox Dark Su	. ,	6)		Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
Sandy GI	eyed Matrix (S4)		Depleted Dark	Surface	(F7)		Red Parent Material (F21)
Sandy Re	edox (S5)		Redox Depress	sions (F8	3)		Very Shallow Dark Surface (F22)
Stripped	Matrix (S6)		Marl (F10) ( <b>LR</b>	R K, L)			Other (Explain in Remarks)
Dark Sur	face (S7)						
31	L. Lovillier Living		office III a local constraint			P	La La conttanada
	nydropnytic vegetation ayer (if observed):	on and we	tiand hydrology mus	st be pre	esent, unie	ess aistu	urbed or problematic.
Type:	Roc	k					
Depth (in		7					Hydric Soil Present? Yes No X
							Tryano con recont.
Remarks:							



**Upland CRRR-7 View facing north** 



**Upland CRRR-7 Soils** 

Segment 3 - Package 2

**SITE PHOTOGRAPHS** 

Project/Site: CHPE	City/County: Fort Ann / Washington Sampling Date: 11/15/21					
Applicant/Owner: TDI	State: NY Sampling Point: WET CSSS-7					
Investigator(s): J. Greaves, C. Scrivner	Section, Township, Range:					
Landform (hillside, terrace, etc.): Depression Local	al relief (concave, convex, none): Concave Slope %: 2					
Subregion (LRR or MLRA): LRR R Lat: 43-27-24.17N	Long: 73-26-31.35W Datum: WGS 84					
Soil Map Unit Name: HNC - Hollis-Rock outcrop association, gently slopin						
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes X No (If no, explain in Remarks.)					
Are Vegetation, Soil, or Hydrologysignificantly distu	<del></del>					
Are Vegetation, Soil, or Hydrologynaturally problem	natic? (If needed, explain any answers in Remarks.)					
SUMMARY OF FINDINGS – Attach site map showing sar	mpling point locations, transects, important features, etc.					
Hydrophytic Vegetation Present? Yes X No	Is the Sampled Area					
Hydric Soil Present? Yes X No	within a Wetland? Yes X No					
Wetland Hydrology Present?  Yes X No	If yes, optional Wetland Site ID: Near Flag CSSS-7					
Palustrine Scrubshrub Wetland. Edinger classification: Shrub Swamp.						
HYDROLOGY						
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)					
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)					
X Surface Water (A1) X Water-Stained Leaves						
X High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)					
X Saturation (A3)Marl Deposits (B15)						
Water Marks (B1)Hydrogen Sulfide Odor						
Sediment Deposits (B2)  X Oxidized Rhizospheres	<u> </u>					
Drift Deposits (B3) Presence of Reduced In						
Algal Mat or Crust (B4)Recent Iron Reduction						
Iron Deposits (B5)  — Thin Muck Surface (C7)  — Other (Explain in Poma	·					
Inundation Visible on Aerial Imagery (B7)Other (Explain in Rema Sparsely Vegetated Concave Surface (B8)						
<del></del>	X FAC-Neutral Test (D5)					
Field Observations:						
Surface Water Present? Yes X No Depth (inches)  Water Table Present? Yes X No Depth (inches)						
Water Table Present? Yes X No Depth (inches) Saturation Present? Yes X No Depth (inches)						
(includes capillary fringe)	)   Welland Hydrology Fresent: 165 160					
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pr	revious inspections) if available:					
Describe Necorded Data (Stream gauge, monitoring won, dental priotos, pr	evious inspections), ii available.					
6						
Remarks:						

Tree Stratum (Plot size:30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. Salix alba	15	Yes	FACW	Number of Dominant Species
2. Acer rubrum	10	Yes	FAC	That Are OBL, FACW, or FAC:7 (A)
3. 4.		<u> </u>		Total Number of Dominant Species Across All Strata: 7 (B)
5. 6.				Percent of Dominant Species That Are OBL, FACW, or FAC:(A/B)
7.				Prevalence Index worksheet:
	25	=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15' )				OBL species45 x 1 =45
1. Alnus incana	30	Yes	FACW	FACW species 110 x 2 = 220
2. Cornus sericea	25	Yes	FACW	FAC species 10 x 3 = 30
3. Cornus amomum	25	Yes	FACW	FACU species
4.				UPL species 0 x 5 = 0
5.				Column Totals: 165 (A) 295 (B)
6.				Prevalence Index = B/A = 1.79
7.				Hydrophytic Vegetation Indicators:
Hada Otastana (District	80	_=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5' )	00	.,	051	X 2 - Dominance Test is >50%
Sparganium americanum	30	Yes	OBL	X 3 - Prevalence Index is ≤3.0¹
2. Carex stricta	8	Yes	OBL	4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
3. Onoclea sensibilis	<u>5</u>	No No	FACW	
4. Phragmites australis		No No	FACW	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5. Solidago gigantea	5 5	No No	FACW OBL	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
<ul><li>6. Lythrum salicaria</li><li>7. Typha latifolia</li></ul>	2	No	OBL	Definitions of Vegetation Strata:
8.		INO	OBL	Definitions of Vegetation Strata.
9.				<b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
10		<u> </u>		Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
12.				
12.	60	=Total Cover		<b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size: 30' )				
1				Woody vines – All woody vines greater than 3.28 ft in height.
2.				
2				Hydrophytic
4.				Vegetation Present? Yes X No
		=Total Cover		
Remarks: (Include photo numbers here or on a separa	ate sheet )	-		
Tremarks. (medde proto fumbers here of on a separ	ate sheet.)			

Sampling Point: WET CSSS-7

SOIL Sampling Point: WET CSSS-7

Depth	Matrix			x Featur			nfirm the absence of	,	
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks	
0-7	10Y 4/1	80	10YR 5/8	10	С	M	Loamy/Clayey	Prominent redox concentrations	
			10YR 5/8	5	С	PL		Prominent redox concentrations	
			10YR 3/3	5	С	M		Prominent redox concentrations	
7-16	5GY 4/1	58	10YR 4/6	40	С	М	Loamy/Clayey	Prominent redox concentrations	
			10YR 4/6	2	С	PL		Prominent redox concentrations	
	ncentration, D=Deple	etion, RM=	Reduced Matrix, M	S=Mask	ed Sand	Grains.		L=Pore Lining, M=Matrix.	
Hydric Soil II  Histosol (			Polyvalue Belo	w Surfac	o (S8) (I	DD D		or Problematic Hydric Soils <sup>3</sup> : ack (A10) (LRR K, L, MLRA 149B)	
	ipedon (A2)	-	MLRA 149B		,e (30) ( <b>1</b>	-IXIX IX,		rairie Redox (A16) (LRR K, L, R)	
Black His			Thin Dark Surfa	•	(LRR R,	, MLRA 1		ucky Peat or Peat (S3) (LRR K, L, R)	
Hydroger	n Sulfide (A4)	•	High Chroma S	Sands (S	11) (LRF	R K, L)	Polyvalu	e Below Surface (S8) (LRR K, L)	
Stratified	Layers (A5)		Loamy Mucky I	Mineral (	F1) ( <b>LRF</b>	R K, L)	Thin Dar	rk Surface (S9) ( <b>LRR K, L</b> )	
	Below Dark Surface	(A11)	X Loamy Gleyed		<del>-</del> 2)			nganese Masses (F12) (LRR K, L, R)	
	rk Surface (A12)		Depleted Matrix	, ,	0)		Piedmont Floodplain Soils (F19) (MLRA 149B)		
	ucky Mineral (S1)		Redox Dark Su				Mesic Spodic (TA6) (MLRA 144A, 145, 149B)  Red Parent Material (F21)		
	eyed Matrix (S4) edox (S5)	-	Depleted Dark Redox Depress		` '			ent Material (F21) allow Dark Surface (F22)	
		-			)		Other (Explain in Remarks)		
<del></del> ··	Stripped Matrix (S6) — Marl (F10) (LRR K, L)  Dark Surface (S7)								
	,								
	hydrophytic vegetation	on and we	tland hydrology mus	st be pre	sent, unl	ess distu	rbed or problematic.		
Type:	ayer (if observed):								
Depth (in	ches).		<del></del>				Hydric Soil Presen	nt? Yes X No	
Remarks:							Tiyano con ricoci	<u> </u>	
Remarks.									



Wetland CSSS-7 View facing south



Wetland CSSS-7 Soils

Segment 3 - Package 2

# SITE PHOTOGRAPHS

Project/Site: CHPE	City/County: Fort Ann / Washington Sampling Date: 11/15/21
Applicant/Owner: TDI	State: NY Sampling Point: UPLCSSS-7
Investigator(s): J. Greaves, C. Scrivner	Section, Township, Range:
Landform (hillside, terrace, etc.): Slight Hillslope Local	relief (concave, convex, none): Convex Slope %: 5
Subregion (LRR or MLRA): LRR R Lat: 43-27-24.20N	Long: _73-26-31.02W
Soil Map Unit Name: HNC - Hollis-Rock outcrop association, gently sloping	
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes X No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly disturb	
Are Vegetation , Soil , or Hydrology naturally problema	
<del></del>	npling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No _X_	Is the Sampled Area
Hydric Soil Present?  Yes X No	within a Wetland? YesNo_X_
Wetland Hydrology Present? Yes No X	If yes, optional Wetland Site ID:
Remarks: (Explain alternative procedures here or in a separate report.) Successional Shrubland.	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) Water-Stained Leaves (B	B9) Drainage Patterns (B10)
High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)
Saturation (A3) Marl Deposits (B15)	Dry-Season Water Table (C2)
Water Marks (B1) Hydrogen Sulfide Odor (	
Sediment Deposits (B2)  Oxidized Rhizospheres of	
Drift Deposits (B3) Presence of Reduced Iro	· , , , , , , , , , , , , , , , , , , ,
Algal Mat or Crust (B4) Recent Iron Reduction in	
Iron Deposits (B5) — Thin Muck Surface (C7)	<u> </u>
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remark	
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No X Depth (inches):	: <u></u>
Water Table Present? Yes No X Depth (inches):	: <u></u>
Saturation Present? Yes No _X Depth (inches):	: Wetland Hydrology Present? Yes No _X
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	vious inspections), if available:
Remarks:	

Yes  Total Cover	FACU FACU	Number of Domina That Are OBL, FAG  Total Number of D Species Across Al  Percent of Domina That Are OBL, FAG	ant Species CW, or FAC: cominant I Strata: ant Species		5	(A) (B)
	FACU	That Are OBL, FACTON Total Number of Dispecies Across Alicented Percent of Domina	CW, or FAC: cominant I Strata: ant Species	_		• ` ′
=Total Cover		Species Across Al Percent of Domina	l Strata: ant Species		5	(B)
=Total Cover		Percent of Domina	ant Species		5	(B)
=Total Cover						
=Total Cover			JVV, OI ITAU.	2	0.0%	(A/B)
=Total Cover		Prevalence Index	worksheet:	'		
		Total % Cove	er of:	Mul	tiply by:	
_		OBL species	0	x 1 =	0	
Yes	FACU	FACW species	0	x 2 =	0	
Yes	FAC	FAC species	25	x 3 =	75	
No	FACU	FACU species	130	x 4 =	520	
		UPL species	5	x 5 =	25	
		Column Totals:	160	(A)	620	(B)
		Prevalence	Index = B/A	=	3.88	
		Hydrophytic Vege	etation Indic	ators:		
=Total Cover		1 - Rapid Test	for Hydroph	ytic Veg	etation	
		2 - Dominance	e Test is >50°	%		
Yes	FACU	3 - Prevalence	Index is ≤3.	0 <sup>1</sup>		
No	FACU	4 - Morpholog	ical Adaptation	ons¹ (Pro	ovide sup	porting
No	FAC	data in Rem	narks or on a	separat	e sheet)	
No	UPL	Problematic H	ydrophytic Ve	egetatio	n¹ (Explai	n)
No	FACU	<sup>1</sup> Indicators of hydri	ic soil and we	stland by	drology r	nuet ha
						iusi be
		Definitions of Veg	getation Stra	ıta:		
		Tree - Woody play	nte 3 in <i>(</i> 76	cm) or n	nore in di	ameter
						AITICICI
						вн
		and greater than o	r equal to 5.2	2011 (111	ı) talı.	
=Total Cover						rdless
		Woody vines – Al	I woody vines	s greatei	r than 3.2	8 ft in
Yes	FACU	height.		9		
		1				
		_	Yes	No_	Χ	
=Total Cover						
	=Total Cover  Yes No No No No Total Cover  Yes Yes Yes	No	Yes FACU  No FACU  FAC species  UPL species  UPL species  Column Totals:  Prevalence  Hydrophytic Veget  2 - Dominance  3 - Prevalence  No FACU  Problematic H  Indicators of hydrip resent, unless dis  Definitions of Veg  Tree – Woody plant at breast height (D  Sapling/shrub – V and greater than o  Herb – All herbace of size, and woody  Woody vines – All height.  Hydrophytic Vegetation Present?	Yes       FAC         No       FACU         FACU species       130         UPL species       5         Column Totals:       160         Prevalence Index = B/A         Hydrophytic Vegetation Indic         1 - Rapid Test for Hydrophytic         2 - Dominance Test is >500         3 - Prevalence Index is ≤3.         No       FACU         No       FAC         No       UPL         Problematic Hydrophytic Voluments of hydric soil and we present, unless disturbed or processent, unless di	Yes	Yes

Sampling Point: UPL CSSS-7

SOIL Sampling Point: UPL CSSS-7

Depth	Matrix	o the de		x Featur		tor or co	onfirm the absence of indicators.)
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture Remarks
0-4	2.5Y 3/1	100					Loamy/Clayey
4-8	2.5Y 3/2	95	10YR 3/6	5	С	М	Loamy/Clayey Prominent redox concentrations
8-16	10YR 2/1	100					
0-10	101K 2/1	100					Sandy with gravel
							·
1Tumor C. Co		otion DM	L Dadward Matrix M	LC Mook		Crains	21 cootion, Dl. Dovo Lining M. Motriy
Hydric Soil I	oncentration, D=Deple	etion, Riv	=Reduced Matrix, M	S=IVIASK	ea Sana	Grains.	<sup>2</sup> Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils <sup>3</sup> :
Histosol			Polyvalue Belo	w Surfac	ce (S8) ( <b>I</b>	_RR R,	2 cm Muck (A10) (LRR K, L, MLRA 149B)
Histic Ep	Histic Epipedon (A2) MLRA 149B)						Coast Prairie Redox (A16) (LRR K, L, R)
Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA							
	n Sulfide (A4)		High Chroma S				Polyvalue Below Surface (S8) (LRR K, L)
Stratified Layers (A5) Loamy Mucky Mineral (F1) (LRR K, L)					R K, L)	Thin Dark Surface (S9) (LRR K, L)	
Depleted Below Dark Surface (A11) Loamy Gleyed Matrix (F2) Thick Dark Surface (A12) Depleted Matrix (F3)					Iron-Manganese Masses (F12) (LRR K, L,		
	lucky Mineral (S1)		Depleted Matri		6)		Piedmont Floodplain Soils (F19) (MLRA 14 Mesic Spodic (TA6) (MLRA 144A, 145, 149
	leyed Matrix (S4)		Depleted Dark				Red Parent Material (F21)
	edox (S5)	Redox Depressions (F8)					Very Shallow Dark Surface (F22)
	Stripped Matrix (S6)			R K, L)	•		Other (Explain in Remarks)
Dark Sur	Dark Surface (S7)						
3							
	f hydrophytic vegetati  _ayer (if observed):	on and w	etland hydrology mu	st be pre	esent, uni	ess distu	urbed or problematic.
Type:	Layer (ii observed).						
Depth (ir	nches):						Hydric Soil Present? Yes X No
Remarks:							,
rtomarks.							



**Upland CSSS-7 View facing east/southeast** 



**Upland CSSS-7 Soils** 

# Segment 3 - Package 2

# **SITE PHOTOGRAPHS**

Project/Site: CHPE	City/County: Fort Ann / Washington Sampling Date: 11/16/21
Applicant/Owner: TDI	State: NY Sampling Point: WET CTTT-16
Investigator(s): C. Scrivner, C. Einstein	Section, Township, Range:
Landform (hillside, terrace, etc.): Depression Local r	relief (concave, convex, none): Concave Slope %: 2
Subregion (LRR or MLRA): LRR R Lat: 43-27-17.60N	Long: 73-26-35.54W Datum: WGS 84
Soil Map Unit Name: HNC - Hollis-Rock outcrop association, gently sloping	
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes X No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly disturb	
Are Vegetation, Soil, or Hydrologynaturally problemate	tic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sam	pling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes X No	Is the Sampled Area
Hydric Soil Present?  Yes X No	within a Wetland? Yes X No
Wetland Hydrology Present? Yes X No	If yes, optional Wetland Site ID: Near Flag CTTT-16
Remarks: (Explain alternative procedures here or in a separate report.) Palustrine Forested Wetland. Edinger classification: Red-maple Hardwood S	Swamp.
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
X Surface Water (A1) X Water-Stained Leaves (B	39) X Drainage Patterns (B10)
X High Water Table (A2) Aquatic Fauna (B13)	X Moss Trim Lines (B16)
X Saturation (A3) Marl Deposits (B15)	Dry-Season Water Table (C2)
Water Marks (B1) Hydrogen Sulfide Odor (0	
Sediment Deposits (B2) Oxidized Rhizospheres o	on Living Roots (C3) X Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B3) Presence of Reduced Iro	
Algal Mat or Crust (B4) Recent Iron Reduction in	Tilled Soils (C6) X Geomorphic Position (D2)
Iron Deposits (B5) Thin Muck Surface (C7)	X Shallow Aquitard (D3)
X Inundation Visible on Aerial Imagery (B7) Other (Explain in Remark	<u> </u>
Sparsely Vegetated Concave Surface (B8)	X FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes X No Depth (inches):	3
Water Table Present? Yes X No Depth (inches):	
Saturation Present? Yes X No Depth (inches):	0 Wetland Hydrology Present? Yes X No
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, prev	vious inspections), if available:
Remarks:	
Tomano.	

<u>Tree Stratum</u> (Plot size: 30' )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
Populus deltoides	40	Yes	FAC	
Ulmus americana	35	Yes	FACW	Number of Dominant Species That Are OBL, FACW, or FAC: 7 (A)
3. Acer rubrum	10	No	FAC	
4.				Total Number of Dominant Species Across All Strata: 9 (B)
5.				Percent of Dominant Species
6.				That Are OBL, FACW, or FAC: 77.8% (A/B)
7.				Prevalence Index worksheet:
	85	=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size:15')				OBL species 20 x 1 = 20
1. Cornus amomum	25	Yes	FACW	FACW species 85 x 2 = 170
2. Lonicera morrowii	20	Yes	FACU	FAC species 70 x 3 = 210
3. Fraxinus pennsylvanica	15	Yes	FACW	FACU species 27 x 4 = 108
4. Cornus racemosa	10	No	FAC	UPL species10 x 5 =50
5. Cornus sericea	5	No	FACW	Column Totals: 212 (A) 558 (B)
6.				Prevalence Index = B/A =2.63
7				Hydrophytic Vegetation Indicators:
	75	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size:)				X 2 - Dominance Test is >50%
Equisetum arvense	10	Yes	FAC	X 3 - Prevalence Index is ≤3.0 <sup>1</sup>
2. Carex stricta	10	Yes	OBL	4 - Morphological Adaptations (Provide supporting
3. Carex bebbii	10	Yes	OBL	data in Remarks or on a separate sheet)
4. Rubus occidentalis	5	No	UPL	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5. Cornus amomum	5	No	FACW	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be
6. Rubia peregrina	5	No	UPL	present, unless disturbed or problematic.
7. Symphyotrichum ericoides	2	No	FACU	Definitions of Vegetation Strata:
8.				Tree – Woody plants 3 in. (7.6 cm) or more in diameter
9.				at breast height (DBH), regardless of height.
10				Sapling/shrub – Woody plants less than 3 in. DBH
11				and greater than or equal to 3.28 ft (1 m) tall.
12				Herb – All herbaceous (non-woody) plants, regardless
	47	=Total Cover		of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size:)				Woody vines – All woody vines greater than 3.28 ft in
1. Vitis aestivalis	5	Yes	FACU	height.
2				Lh dromby sio
3.				Hydrophytic Vegetation
4.				Present?
	5	=Total Cover		
Remarks: (Include photo numbers here or on a separa	ite sheet.)			

Sampling Point: WET CTTT-16

**SOIL** Sampling Point: WET CTTT-16

Depth Matrix Redox Features (inches) Color (moist) % Color (moist) % Type¹ Loc² Texture Remarks  0-3 10YR 2/1 100 Loamy/Clayey with gravel  Loamy/Clayey with gravel  1Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.  2Location: PL=Pore Lining, M=Matrix.  Hydric Soil Indicators: Indicators for Problematic Hydric Soils³:
0-3 10YR 2/1 100 Loamy/Clayey with gravel  Loamy/Clayey with gravel  Loamy/Clayey with gravel  In particular to the properties of the prop
<sup>1</sup> Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. <sup>2</sup> Location: PL=Pore Lining, M=Matrix.
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)
Black Histic (A3)  Thin Dark Surface (S9) (LRR R, MLRA 149B)  5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
Hydrogen Sulfide (A4) High Chroma Sands (S11) (LRR K, L) Polyvalue Below Surface (S8) (LRR K, L)
Stratified Layers (A5)  Loamy Mucky Mineral (F1) (LRR K, L)  Thin Dark Surface (S9) (LRR K, L)
Depleted Below Dark Surface (A11)  Loamy Gleyed Matrix (F2)  Iron-Manganese Masses (F12) (LRR K, L, R)
Thick Dark Surface (A12)  Depleted Matrix (F3)  Piedmont Floodplain Soils (F19) (MLRA 149B)
Sandy Mucky Mineral (S1) Redox Dark Surface (F6) Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
Sandy Gleyed Matrix (S4)  Depleted Dark Surface (F7)  Red Parent Material (F21)
Sandy Redox (S5) Redox Depressions (F8) Very Shallow Dark Surface (F22)
Stripped Matrix (S6)  Marl (F10) (LRR K, L)  X Other (Explain in Remarks)
Dark Surface (S7)
<sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.
Restrictive Layer (if observed):
Type: Gravel / Roots
Depth (inches): 3 Hydric Soil Present? Yes X No
Remarks:
Stone fill. Saturated to surface.



Wetland CTTT-16 View facing west



**Wetland CTTT-16 Soils** 

Segment 3 - Package 2

# **SITE PHOTOGRAPHS**

Project/Site: CHPE	City/County: Fort Ann / Washington Sampling Date: 11/16/21
Applicant/Owner: TDI	State: NY Sampling Point: UPLCTTT-16
Investigator(s): C. Scrivner, C. Einstein	Section, Township, Range:
Landform (hillside, terrace, etc.): Slight Hillslope Loca	al relief (concave, convex, none): Convex Slope %: 5
Subregion (LRR or MLRA): LRR R Lat: 43-27-16.86N	Long: 73-26-35.21W Datum: WGS 84
Soil Map Unit Name: HNC - Hollis-Rock outcrop association, gently slopin	
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes X No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly distu	
Are Vegetation, Soil, or Hydrology naturally problem	
SUMMARY OF FINDINGS – Attach site map showing sa	mpling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No X	Is the Sampled Area
Hydric Soil Present? Yes No X	within a Wetland? Yes No X
Wetland Hydrology Present? Yes No X	If yes, optional Wetland Site ID:
Successional Northern Hardwoods.	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) Water-Stained Leaves	(B9) Drainage Patterns (B10)
High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)
Saturation (A3) Marl Deposits (B15)	Dry-Season Water Table (C2)
Water Marks (B1) Hydrogen Sulfide Odor	
Sediment Deposits (B2)  Oxidized Rhizospheres	
Drift Deposits (B3) Presence of Reduced I	
Algal Mat or Crust (B4)Recent Iron Reduction	
Iron Deposits (B5)Thin Muck Surface (C7	· · · · · · · · ·
Inundation Visible on Aerial Imagery (B7) Other (Explain in Rema	<u> </u>
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No X Depth (inches	
Water Table Present? Yes No X Depth (inches	
Saturation Present? Yes No X Depth (inches	S): Wetland Hydrology Present? Yes No _X
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pr	revious inspections), if available:
Remarks:	

<u>Tree Stratum</u> (Plot size: 30' )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. Pinus strobus	40	Yes	FACU	Northwelf Basicast Consis
Quercus rubra	25	Yes	FACU	Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)
3. Populus deltoides	20	Yes	FAC	
4.				Total Number of Dominant Species Across All Strata: 10 (B)
5.				Percent of Dominant Species
6.				That Are OBL, FACW, or FAC: 20.0% (A/B)
7				Prevalence Index worksheet:
	85	=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size:)				OBL species 0 x 1 = 0
1. Lonicera morrowii	15	Yes	FACU	FACW species 0 x 2 = 0
2. Pinus strobus	10	Yes	FACU	FAC species 40 x 3 = 120
3. Quercus rubra	5	No	FACU	FACU species 142 x 4 = 568
4. Rhamnus cathartica	5	No	FAC	UPL species 10 x 5 = 50
5. Cornus racemosa	5	No	FAC	Column Totals: 192 (A) 738 (B)
6. Prunus serotina	2	No	FACU	Prevalence Index = B/A = 3.84
7				Hydrophytic Vegetation Indicators:
	42	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5' )				2 - Dominance Test is >50%
1. Lonicera morrowii	20	Yes	FACU	3 - Prevalence Index is ≤3.0 <sup>1</sup>
2. Symphyotrichum ericoides	10	Yes	FACU	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
3. Equisetum arvense	10	Yes	FAC	data in Remarks or on a separate sheet)
4. Geranium maculatum	10	Yes	FACU	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5. Rubia peregrina	5	No	UPL	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be
6. Rubus occidentalis	5	No	UPL	present, unless disturbed or problematic.
7				Definitions of Vegetation Strata:
8				Tree – Woody plants 3 in. (7.6 cm) or more in diameter
9				at breast height (DBH), regardless of height.
10				Sapling/shrub – Woody plants less than 3 in. DBH
11				and greater than or equal to 3.28 ft (1 m) tall.
12				Herb – All herbaceous (non-woody) plants, regardless
	60	=Total Cover		of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size:)				Woody vines – All woody vines greater than 3.28 ft in
1. Vitis aestivalis	5	Yes	FACU	height.
2				Hydrophytic
3.				Vegetation
4				Present? Yes No X
	5	=Total Cover		

Sampling Point: UPL CTTT-16

**SOIL** Sampling Point: UPL CTTT-16

		the dep				or or co	nfirm the absence of indicat	ors.)
Depth	Matrix			x Feature		. 2	<b>-</b> .	5 .
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-3	10YR 2/1	100					Loamy/Clayey	
1 <sub>Tumpo</sub> , C. Co	nacetration D. Danie	tion DM	Dadwaad Matrix M	C Mook		Craina	2l costion, Dl. Doro	Lining M Matrix
Hydric Soil In	ncentration, D=Deple	tion, Kivi	-Reduced Matrix, M.	S=IVIASK	eu Sanu i	Giailis.	<sup>2</sup> Location: PL=Pore	lematic Hydric Soils <sup>3</sup> :
Histosol (			Polyvalue Belo	w Surfac	e (S8) (L	RR R.		)) (LRR K, L, MLRA 149B)
	pedon (A2)		MLRA 149B		, (00) (=	,		edox (A16) ( <b>LRR K, L, R</b> )
Black His			Thin Dark Surfa	,	(LRR R,	MLRA 1		at or Peat (S3) (LRR K, L, R)
	Sulfide (A4)		High Chroma S					V Surface (S8) (LRR K, L)
Stratified	Layers (A5)		Loamy Mucky N	Mineral (	F1) (LRR	(K, L)	Thin Dark Surfa	ce (S9) (LRR K, L)
Depleted	Below Dark Surface	(A11)	Loamy Gleyed	Matrix (F	<del>-</del> 2)		Iron-Manganese	e Masses (F12) (LRR K, L, R)
Thick Da	rk Surface (A12)		Depleted Matrix	x (F3)			Piedmont Flood	plain Soils (F19) (MLRA 149B)
Sandy Mu	ucky Mineral (S1)		Redox Dark Su	ırface (F	6)		Mesic Spodic (T	A6) (MLRA 144A, 145, 149B)
Sandy GI	eyed Matrix (S4)		Depleted Dark	Surface	(F7)		Red Parent Mat	erial (F21)
Sandy Re	edox (S5)		Redox Depress	sions (F8	3)			ark Surface (F22)
	Matrix (S6)		Marl (F10) ( <b>LR</b>	R K, L)			Other (Explain in	n Remarks)
Dark Surf	face (S7)							
3								
	hydrophytic vegetatio	on and we	tland hydrology mus	st be pre	sent, unle	ess distui	rbed or problematic.	
	ayer (if observed):	Cindor						
Type:	Rock/Stone							
Depth (in	ches):	3					Hydric Soil Present?	Yes No X
Remarks:								
Stone and cin	der at 3-inches with v	very little	soil material observe	ed.				



**Upland CTTT-16 View facing south** 



**Upland CTTT-16 Soils** 

Segment 3 - Package 2

# **SITE PHOTOGRAPHS**

Project/Site: CHPE	City/County: Fort Ann / Washington Sampling Date: 11/16/21
Applicant/Owner: TDI	State: NY Sampling Point: WET CVW-11
Investigator(s): C. Scrivner, C. Einstein	Section, Township, Range:
Landform (hillside, terrace, etc.): Depression Local r	relief (concave, convex, none): Concave Slope %: 2
Subregion (LRR or MLRA): LRR R Lat: 43-27-15.93N	Long: 73-26-33.96W Datum: WGS 84
Soil Map Unit Name: HNC - Hollis-Rock outcrop association, gently sloping	
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes X No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly disturb	<del></del>
Are Vegetation, Soil, or Hydrologynaturally problema	tic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sam	pling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes X No	Is the Sampled Area
Hydric Soil Present?  Yes X No	within a Wetland? Yes X No
Wetland Hydrology Present? Yes X No	If yes, optional Wetland Site ID: Near Flag CVVV-11
Palustrine Scrubshrub Wetland - Floodplain. Edinger classification: Shrub S	iwamp.
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
X Surface Water (A1) X Water-Stained Leaves (E	39) Drainage Patterns (B10)
X High Water Table (A2) Aquatic Fauna (B13)	X Moss Trim Lines (B16)
X Saturation (A3)Marl Deposits (B15)	Dry-Season Water Table (C2)
Water Marks (B1) Hydrogen Sulfide Odor (0	C1) Crayfish Burrows (C8)
Sediment Deposits (B2) Oxidized Rhizospheres o	on Living Roots (C3) Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B3) Presence of Reduced Iro	on (C4) Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4) Recent Iron Reduction in	Tilled Soils (C6) X Geomorphic Position (D2)
Iron Deposits (B5) Thin Muck Surface (C7)	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7)Other (Explain in Remark	ks)Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8)	X FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes X No Depth (inches):	1
Water Table Present? Yes X No Depth (inches):	
Saturation Present? Yes X No Depth (inches):	0 Wetland Hydrology Present? Yes X No
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, prev	vious inspections), if available:
Remarks:	

ee Stratum (Plot size: 30' )  Fraxinus pennsylvanica	% Cover	Species?	Status	Dominance Test worksheet:
т тахіна ретіноўтчаніва	10	Yes	FACW	
Ulmus americana	5	Yes	FACW	Number of Dominant Species That Are OBL, FACW, or FAC: 6 (A)
Populus deltoides	5	Yes	FAC	That Ale OBE, I AOW, OF AC.
ropulus delioldes		165	FAC	Total Number of Dominant Species Across All Strata: 8 (B)
				Species Across All Strata: 8 (B)
				Percent of Dominant Species That Are OBL, FACW, or FAC: 75.0% (A/B)
				Prevalence Index worksheet:
	20	=Total Cover		Total % Cover of: Multiply by:
apling/Shrub Stratum (Plot size:)				OBL species 0 x 1 = 0
Lonicera morrowii	45	Yes	FACU	FACW species 60 x 2 = 120
Cornus amomum	25	Yes	FACW	FAC species 45 x 3 = 135
Rhamnus cathartica	10	No	FAC	FACU species 55 x 4 = 220
Fraxinus pennsylvanica	10	No	FACW	UPL species 0 x 5 = 0
Viburnum dentatum	10	No	FAC	Column Totals: 160 (A) 475 (B
	,			Prevalence Index = B/A = 2.97
				Hydrophytic Vegetation Indicators:
	100	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
erb Stratum (Plot size: 5' )		-		X 2 - Dominance Test is >50%
Rhamnus cathartica	10	Yes	FAC	X 3 - Prevalence Index is ≤3.0 <sup>1</sup>
Equisetum arvense	10	Yes	FAC	4 - Morphological Adaptations <sup>1</sup> (Provide supportin
Fraxinus pennsylvanica	5	No	FACW	data in Remarks or on a separate sheet)
Symphyotrichum ericoides	5	No	FACU	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
Solidago gigantea	5	No	FACW	<sup>1</sup> Indicators of hydric soil and wetland hydrology must b
	,			present, unless disturbed or problematic.
				Definitions of Vegetation Strata:
				Tree – Woody plants 3 in. (7.6 cm) or more in diameter
				at breast height (DBH), regardless of height.
).				Sapling/shrub – Woody plants less than 3 in. DBH
	•			and greater than or equal to 3.28 ft (1 m) tall.
2.				<b>Herb</b> – All herbaceous (non-woody) plants, regardless
	35	=Total Cover		of size, and woody plants less than 3.28 ft tall.
oody Vine Stratum (Plot size: 30' )				Manda di Allamanda di Angara aranta da 200 fi in
Vitis aestivalis	5	Yes	FACU	<b>Woody vines</b> – All woody vines greater than 3.28 ft in height.
				Hydrophytic
				Vegetation Present? Yes X No
	5	=Total Cover		
emarks: (Include photo numbers here or on a sepa	-			

SOIL Sampling Point: WET CVVV-11

Depth	Matrix			x Featur			nfirm the absence of	<b>-</b>
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-8	10YR 2/1	95	10YR 4/4	5	С	M	Loamy/Clayey	Distinct redox concentrations
8-20	10YR 5/1	70	10YR 5/6	30	<u>C</u>	<u>M</u>	Loamy/Clayey	Prominent redox concentrations
¹Type: C=Co	oncentration, D=Deple	etion, RM	=Reduced Matrix, M	S=Mask	ed Sand	Grains.	<sup>2</sup> Location: Pl	L=Pore Lining, M=Matrix.
Hydric Soil		,	,					or Problematic Hydric Soils <sup>3</sup> :
Histosol	(A1)		Polyvalue Belo	w Surfac	e (S8) (I	LRR R,	2 cm Mu	ck (A10) ( <b>LRR K, L, MLRA 149B</b> )
	pipedon (A2)		MLRA 149B	,	(I DD D			rairie Redox (A16) (LRR K, L, R)
Black Hi			Thin Dark Surfa					cky Peat or Peat (S3) (LRR K, L, R)
	n Sulfide (A4) d Layers (A5)		High Chroma S Loamy Mucky I					e Below Surface (S8) (LRR K, L) k Surface (S9) (LRR K, L)
	d Below Dark Surface	(A11)	Loamy Gleyed			<b>、π, μ</b> )		nganese Masses (F12) (LRR K, L, R)
	ark Surface (A12)	(/ (   1 )	X Depleted Matrix		_,			nt Floodplain Soils (F19) (MLRA 149B)
	lucky Mineral (S1)		X Redox Dark Su		6)			podic (TA6) ( <b>MLRA 144A, 145, 149B</b> )
	Sleyed Matrix (S4)		Depleted Dark					ent Material (F21)
Sandy R	edox (S5)		Redox Depress	sions (F8	3)		Very Sha	allow Dark Surface (F22)
Stripped	Matrix (S6)		Marl (F10) ( <b>LR</b>	R K, L)			Other (E	xplain in Remarks)
Dark Su	rface (S7)							
<sup>3</sup> Indicators of	f hydrophytic vegetati	on and w	etland hydrology mu	st be pre	sent, unl	less distu	rbed or problematic.	
	Layer (if observed):							
Type:								
Depth (ir	nches):						Hydric Soil Presen	nt? Yes X No
Remarks:								



Wetland CVVV-11 View facing southeast



Wetland CVVV-11 Soils

Segment 3 - Package 2

# **SITE PHOTOGRAPHS**

Project/Site: CHPE	City/County: Fort Ann / Washington Sampling Date: 11/16/21
Applicant/Owner: TDI	State: NY Sampling Point: UPLCVVV-11
Investigator(s): C. Scrivner, C. Einstein	Section, Township, Range:
Landform (hillside, terrace, etc.): Slight Hillslope Local	relief (concave, convex, none): Convex Slope %: 2
Subregion (LRR or MLRA): LRR R Lat: 43-27-16.18N	Long: 73-26-34.32W Datum: WGS 84
Soil Map Unit Name: HNC - Hollis-Rock outcrop association, gently sloping	
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes X No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly disturb	· · ·
Are Vegetation, Soil, or Hydrology naturally problema	atic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sam	
Hydrophytic Vegetation Present? Yes No X	Is the Sampled Area
Hydric Soil Present? Yes No X	within a Wetland? Yes No X
Wetland Hydrology Present? Yes No X	If yes, optional Wetland Site ID:
Remarks: (Explain alternative procedures here or in a separate report.)  Mowed roadside.	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) Water-Stained Leaves (E	B9) Drainage Patterns (B10)
High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)
Saturation (A3) Marl Deposits (B15)	Dry-Season Water Table (C2)
Water Marks (B1) Hydrogen Sulfide Odor (	
Sediment Deposits (B2)  Oxidized Rhizospheres of	
Drift Deposits (B3) Presence of Reduced Iro	· ,
Algal Mat or Crust (B4)Recent Iron Reduction in	
Iron Deposits (B5)  Thin Muck Surface (C7)  Other (5 president in Remodel)	• • • • •
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remark	
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No _X Depth (inches):	
Water Table Present? Yes No X Depth (inches):	
Saturation Present? Yes No X Depth (inches):	:   Wetland Hydrology Present? Yes No _X
(includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	avious inspections) if available:
Describe Necorded Data (stream gauge, monitoring well, aerial photos, pre	vious inspections), ii avaliable.
Remarks:	

	Absolute	Dominant	Indicator	
ree Stratum (Plot size:30')	% Cover	Species?	Status	Dominance Test worksheet:
·				Number of Dominant Species
				That Are OBL, FACW, or FAC: 1 (A)
				Total Number of Dominant Species Across All Strata: 2 (B)
				Openes Across All Citata.
·				Percent of Dominant Species
				That Are OBL, FACW, or FAC: 50.0% (A/E
		=Total Cover		Total % Cover of: Multiply by:
andia a/Charak Otanta and /Dist since 451		= Total Cover		
apling/Shrub Stratum (Plot size:15')				OBL species 0 x 1 = 0
				FACW species 0 x 2 = 0
				FAC species35 x 3 =105
				FACU species 55 x 4 = 220
				UPL species10 x 5 =50
				Column Totals: 100 (A) 375 (E
				Prevalence Index = B/A = 3.75
				Hydrophytic Vegetation Indicators:
		=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
erb Stratum (Plot size: 5' )				2 - Dominance Test is >50%
Setaria pumila	35	Yes	FAC	3 - Prevalence Index is ≤3.0 <sup>1</sup>
	30	Yes	FACU	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
				data in Remarks or on a separate sheet)
Taraxacum officinale	15	No No	FACU	
Rubia peregrina	10	No	UPL	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
Plantago lanceolata	10	No	FACU	<sup>1</sup> Indicators of hydric soil and wetland hydrology must present, unless disturbed or problematic.
				Definitions of Vegetation Strata:
				Deminions of Vegetation Ordan.
				<b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diamet at breast height (DBH), regardless of height.
).				
i.				Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
2.				
	100	Total Cover		Herb – All herbaceous (non-woody) plants, regardles
	100	=Total Cover		of size, and woody plants less than 3.28 ft tall.
/a a de . Vina a Chrate en				Woody vines – All woody vines greater than 3.28 ft in
				height.
				Hydrophytic
				Hydrophytic Vegetation
				Hydrophytic Vegetation Present? Yes No _X

SOIL Sampling Point: UPL CVVV-11

Profile Description: (Describe to the dep				or or co	nfirm the absence of indicators.)
Depth Matrix		Feature		. 2	- ·
(inches) Color (moist) %	Color (moist)	<u>%</u>	Type <sup>1</sup>	Loc <sup>2</sup>	Texture Remarks
0-8 10YR 2/1 100					Sandy with gravel
					<del></del>
					<u> </u>
<sup>1</sup> Type: C=Concentration, D=Depletion, RM	-Poducod Matrix MS		od Sand (	Proinc	<sup>2</sup> Location: PL=Pore Lining, M=Matrix.
Hydric Soil Indicators:	=Reduced Matrix, Mc	=ivia5K	eu Sanu (	Jiailis.	Indicators for Problematic Hydric Soils <sup>3</sup> :
Histosol (A1)	Polyvalue Belov	v Surfac	e (S8) ( <b>L</b>	RR R.	2 cm Muck (A10) (LRR K, L, MLRA 149B)
Histic Epipedon (A2)	MLRA 149B)		() (_	<b>,</b>	Coast Prairie Redox (A16) (LRR K, L, R)
Black Histic (A3)	Thin Dark Surfa		(LRR R,	MLRA 1	
Hydrogen Sulfide (A4)	High Chroma S	ands (S	11) (LRR	K, L)	Polyvalue Below Surface (S8) (LRR K, L)
Stratified Layers (A5)	Loamy Mucky N	/lineral (	F1) ( <b>LRR</b>	K, L)	Thin Dark Surface (S9) (LRR K, L)
Depleted Below Dark Surface (A11)	Loamy Gleyed I	Matrix (F	-2)		Iron-Manganese Masses (F12) (LRR K, L, R)
Thick Dark Surface (A12)	Depleted Matrix	(F3)			Piedmont Floodplain Soils (F19) (MLRA 149B)
Sandy Mucky Mineral (S1)	Redox Dark Sur	rface (F	6)		Mesic Spodic (TA6) ( <b>MLRA 144A, 145, 149B</b> )
Sandy Gleyed Matrix (S4)	Depleted Dark S	Surface	(F7)		Red Parent Material (F21)
Sandy Redox (S5)	Redox Depress		3)		Very Shallow Dark Surface (F22)
Stripped Matrix (S6)	Marl (F10) ( <b>LRF</b>	R K, L)			Other (Explain in Remarks)
Dark Surface (S7)					
3					
<sup>3</sup> Indicators of hydrophytic vegetation and we	etland hydrology mus	t be pre	sent, unie	ess distur	rbed or problematic.
Restrictive Layer (if observed):  Type: Gravel					
Depth (inches): 8					Hydric Soil Present? Yes No _X
Remarks:					



**Upland CVVV-11 View facing northeast** 



**Upland CVVV-11 Soils** 

Segment 3 - Package 2

# **SITE PHOTOGRAPHS**

Project/Site: CHPE	City/County: Fort Ann / Washington Sampling Date: 11/16/21
Applicant/Owner: TDI	State: NY Sampling Point: WET CUUU-2A
Investigator(s): C. Scrivner, C. Einstein	Section, Township, Range:
	relief (concave, convex, none): Concave Slope %: 2
Subregion (LRR or MLRA): LRR R Lat: 43-27-16.72N	Long: 73-26-34.74W Datum: WGS 84
Soil Map Unit Name: HNC - Hollis-Rock outcrop association, gently sloping	<u> </u>
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes X No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly disturb	<del></del>
Are Vegetation, Soil, or Hydrologynaturally problemate	tic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sam	pling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes X No	Is the Sampled Area
Hydric Soil Present? Yes X No	within a Wetland? Yes X No
Wetland Hydrology Present?  Yes X No	If yes, optional Wetland Site ID: Near Flag CUUU-2A
Palustrine Emergent Marsh. Edinger classification: Purple Loosestrife Marsh	h.
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
X Surface Water (A1) X Water-Stained Leaves (B	<u> </u>
X High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)
X Saturation (A3) Marl Deposits (B15)	Dry-Season Water Table (C2)
Water Marks (B1) Hydrogen Sulfide Odor (C	
X Sediment Deposits (B2) Oxidized Rhizospheres o	
Drift Deposits (B3) Presence of Reduced Iro	<u> </u>
Algal Mat or Crust (B4)Recent Iron Reduction inThis Mark 9 of case (OT)	· · · · · · · · · · · · · · · · · · ·
Iron Deposits (B5)  — Thin Muck Surface (C7)  Other (Furlishin in Report of the Control of the C	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remark	<u> </u>
Sparsely Vegetated Concave Surface (B8)	X FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes X No Depth (inches):	
Water Table Present? Yes X No Depth (inches):	
Saturation Present? Yes X No Depth (inches):	0 Wetland Hydrology Present? Yes X No
(includes capillary fringe)	*
Describe Recorded Data (stream gauge, monitoring well, aerial photos, prev	vious inspections), if available:
Remarks:	
Relians.	

Tree Stratum (Plot size: 30' )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
2.		·		Number of Dominant Species That Are OBL, FACW, or FAC:4(A)
3.         4.				Total Number of Dominant Species Across All Strata:4 (B)
5 6				Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
7				Prevalence Index worksheet:
		=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size:)				OBL species 35 x 1 = 35
1. Salix alba	10	Yes	FACW	FACW species 45 x 2 = 90
2. Cornus racemosa	5	Yes	FAC	FAC species 5 x 3 = 15
3.				FACU species 30 x 4 = 120
4.				UPL species0 x 5 =0
5.				Column Totals: 115 (A)(B)
6				Prevalence Index = B/A = 2.26
7.				Hydrophytic Vegetation Indicators:
	15	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5' )				X 2 - Dominance Test is >50%
1. Lythrum salicaria	35	Yes	OBL	X 3 - Prevalence Index is ≤3.0 <sup>1</sup>
Phalaris arundinacea	20	Yes	FACW	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
3. Poa pratensis	15	No	FACU	data in Remarks or on a separate sheet)
Solidago gigantea	10	No	FACW	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5. Symphyotrichum ericoides	10	No	FACU	_
6. Lotus corniculatus	5	No	FACU	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
7. Salix alba	5	No	FACW	Definitions of Vegetation Strata:
8.		110	TAOW	
9.				<b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
10 11				Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
12				Herb – All herbaceous (non-woody) plants, regardless
	100	=Total Cover		of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size:) 1.		<u> </u>		Woody vines – All woody vines greater than 3.28 ft in height.
2.		<u> </u>		no.gra
2				Hydrophytic
				Vegetation No. 2012
4				Present?
		=Total Cover		
Remarks: (Include photo numbers here or on a separa	ate sheet.)			

Sampling Point: WET CUUU-2A

**SOIL** Sampling Point: WET CUUU-2A

Depth	ription: (Describe to Matrix	o ine aep		x Feature		LOI OF CO	nfirm the absence of ir	iuicaturs.j	
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks	
0-14	10YR 4/1	90	10YR 3/4	10	С	M	Sandy	with gravel	
14-20	10YR 5/1	80	10YR 5/8	20	С	М	Loamy/Clayey	Prominent redox concentrations	
¹Type: C=Co	oncentration, D=Deple	etion, RM	=Reduced Matrix, M	IS=Mask	ed Sand	Grains.	<sup>2</sup> Location: PL	=Pore Lining, M=Matrix.	
Hydric Soil I	ndicators:							r Problematic Hydric Soils <sup>3</sup> :	
Histosol	` '		Polyvalue Belo		e (S8) ( <b>I</b>	LRR R,		ck (A10) ( <b>LRR K, L, MLRA 149B</b> )	
	ipedon (A2)		MLRA 149B	,	/I DD D	MUDAA		airie Redox (A16) (LRR K, L, R)	
Black His	, ,		Thin Dark Surf High Chroma S						
	n Sulfide (A4) Layers (A5)		Loamy Mucky						
	Below Dark Surface	(Δ11)	Loamy Gleyed			Χ <b>(</b> , <b>L</b> )		ganese Masses (F12) (LRR K, L, R)	
	rk Surface (A12)	(A11)	Depleted Matri		2)				
	ucky Mineral (S1)		Redox Dark St		6)		Piedmont Floodplain Soils (F19) (MLRA 1498 Mesic Spodic (TA6) (MLRA 144A, 145, 149B		
	leyed Matrix (S4)		Depleted Dark					nt Material (F21)	
X Sandy R			Redox Depres		` ′			llow Dark Surface (F22)	
	Matrix (S6)		Marl (F10) ( <b>LR</b>		,			plain in Remarks)	
Dark Sur	face (S7)								
	hydrophytic vegetation	on and we	etland hydrology mu	ist be pre	sent, unl	less distu	rbed or problematic.		
Type:	.ayer (if observed):								
Depth (in	ochoc):						Hydric Soil Present	? Yes X No	
							Tryunc 3011 Fresent		
Remarks:									



Wetland CUUU-2A View facing north/northeast



Wetland CUUU-2A Soils

Segment 3 - Package 2

# **SITE PHOTOGRAPHS**

Project/Site: CHPE	City/County: Fort Ann / Washington Sampling Date: 11/16/21
Applicant/Owner: TDI	State: NY Sampling Point: UPL CUUU-2A
Investigator(s): C. Scrivner, C. Einstein	Section, Township, Range:
	I relief (concave, convex, none): None Slope %: 0
Subregion (LRR or MLRA): LRR R Lat: 43-27-16.71N	Long: 73-26-34.58W Datum: WGS 84
Soil Map Unit Name: HNC - Hollis-Rock outcrop association, gently sloping	
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes X No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrologysignificantly distur	
Are Vegetation, Soil, or Hydrologynaturally problems	natic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing san	mpling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No X	Is the Sampled Area
Hydric Soil Present? Yes No X	within a Wetland? Yes No X
Wetland Hydrology Present? Yes No X	If yes, optional Wetland Site ID:
Mowed roadside.	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) Water-Stained Leaves (	(B9) Drainage Patterns (B10)
High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)
Saturation (A3) Marl Deposits (B15)	Dry-Season Water Table (C2)
Water Marks (B1) Hydrogen Sulfide Odor	
Sediment Deposits (B2)  Oxidized Rhizospheres	
Drift Deposits (B3) Presence of Reduced Ir	· , , , , , , , , , , , , , , , , , , ,
Algal Mat or Crust (B4)Recent Iron Reduction in	
Iron Deposits (B5)  — Thin Muck Surface (C7)  — Other (Figure in Remove the Control of the Contr	· · · · · ·
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remain Sparsely Vegetated Concave Surface (B8)	
	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No X Depth (inches)	·
Water Table Present? Yes No X Depth (inches) Saturation Present? Yes No X Depth (inches)	
	): Wetland Hydrology Present? Yes No _X
(includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	evious inspections) if available:
Describe Recorded Data (stream gauge, monitoring well, acrial photos, pre	evious inspections), il available.
Remarks:	

Tree Stratum (Plot size: 30' )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
2.				Number of Dominant Species That Are OBL, FACW, or FAC:(A)
3. 4.				Total Number of Dominant Species Across All Strata:(B)
5 6				Percent of Dominant Species That Are OBL, FACW, or FAC:(A/B)
7				Prevalence Index worksheet:
		=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size:)				OBL species 0 x 1 = 0
1.				FACW species0 x 2 =0
2.				FAC species 40 x 3 = 120
3.				FACU species 45 x 4 = 180
4.				UPL species 15 x 5 = 75
5.				Column Totals: 100 (A) 375 (B)
6.				Prevalence Index = B/A = 3.75
7.				Hydrophytic Vegetation Indicators:
		=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5' )		•		2 - Dominance Test is >50%
Setaria pumila	40	Yes	FAC	3 - Prevalence Index is ≤3.0 <sup>1</sup>
Poa pratensis	20	Yes	FACU	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
				data in Remarks or on a separate sheet)
3. Lotus corniculatus	<u>15</u>	No No	FACU	Droblemetic Hydrophytic Vegetation 1 (Eyplein)
4. Taraxacum officinale		No No	FACU	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5. Pastinaca sativa	10	No No	UPL	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be
6. Rubia peregrina	5	<u>No</u>	UPL	present, unless disturbed or problematic.
7.				Definitions of Vegetation Strata:
9.				<b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
10				Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
12				Herb – All herbaceous (non-woody) plants, regardless
	100	=Total Cover		of size, and woody plants less than 3.28 ft tall.
<u>Woody Vine Stratum</u> (Plot size:)  1)				Woody vines – All woody vines greater than 3.28 ft in height.
2.				
2		-		Hydrophytic
				Vegetation Present? Yes No X
4.		Tatal Cause	-	Present? Yes No X
		=Total Cover		
Remarks: (Include photo numbers here or on a separa	ate sheet.)			

Sampling Point: UPL CUUU-2A

**SOIL** Sampling Point: UPL CUUU-2A

		o the dep				tor or co	nfirm the absence of indica	tors.)	
Depth ("	Matrix			x Featur		2	<b>T</b>	Develo	
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks	
0-9	10YR 3/2	100					Loamy/Clayey		
9-12	10YR 4/2	80	10YR 3/3	20	С	М	Sandy	Faint redox concentrations	
	ncentration, D=Deple	etion, RM	=Reduced Matrix, MS	S=Mask	ed Sand	Grains.	<sup>2</sup> Location: PL=Pore	-	
Hydric Soil In			5 5.	o ,	(00) (1			olematic Hydric Soils <sup>3</sup> :	
Histosol (			Polyvalue Below		ce (S8) ( <b>L</b>	₋RR R,		0) (LRR K, L, MLRA 149B)	
Black His	pedon (A2)		Thin Dark Surfa	,	(I RR R	MI RA 1		edox (A16) ( <b>LRR K, L, R</b> ) eat or Peat (S3) ( <b>LRR K, L, R</b> )	
	n Sulfide (A4)		High Chroma S					w Surface (S8) (LRR K, L)	
	Layers (A5)		Loamy Mucky N					ace (S9) (LRR K, L)	
	Below Dark Surface	(A11)	Loamy Gleyed			. ,	Iron-Manganese Masses (F12) (LRR K, L, R)		
Thick Da	rk Surface (A12)		Depleted Matrix	۲ (F3)			Piedmont Floodplain Soils (F19) (MLRA 149B)		
Sandy Mu	ucky Mineral (S1)		Redox Dark Su	rface (F	6)		Mesic Spodic (	TA6) (MLRA 144A, 145, 149B)	
	eyed Matrix (S4)		Depleted Dark				Red Parent Ma		
Sandy Re			Redox Depress		3)		Very Shallow Dark Surface (F22)		
Stripped   Dark Surf	Matrix (S6)		Marl (F10) ( <b>LR</b> l	K K, L)			Other (Explain in Remarks)		
Dark Sun	race (S7)								
<sup>3</sup> Indicators of	hydrophytic vegetation	on and we	etland hydrology mus	st be pre	sent. unl	ess distu	rbed or problematic.		
	ayer (if observed):		<u>,</u>		,				
Туре:	Cinders an	d gravel							
Depth (in	ches):	12					Hydric Soil Present?	Yes No X	
Remarks:							l .		



**Upland CUUU-2A View facing northeast** 



**Upland CUUU-2A Soils** 

Segment 3 - Package 2

# **SITE PHOTOGRAPHS**

Project/Site: CHPE	City/County: Fort Ann / Washington Sampling Date: 11/17/21					
Applicant/Owner: TDI	State: NY Sampling Point: WET CHANGE					
Investigator(s): C. Scrivner, C. Einstein	Section, Township, Range:					
	relief (concave, convex, none): Concave Slope %: 2					
Subregion (LRR or MLRA): LRR R Lat: 43-27-13.82N	Long: 73-26-37.03W Datum: WGS 84					
Soil Map Unit Name: HNC - Hollis-Rock outcrop association, gently sloping						
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes X No (If no, explain in Remarks.)					
Are Vegetation, Soil, or Hydrology significantly disturb						
Are Vegetation, Soil, or Hydrologynaturally problemate	tic? (If needed, explain any answers in Remarks.)					
SUMMARY OF FINDINGS – Attach site map showing sam	pling point locations, transects, important features, etc.					
Hydrophytic Vegetation Present? Yes X No	Is the Sampled Area					
Hydric Soil Present?  Yes X No	within a Wetland? Yes X No					
Wetland Hydrology Present? Yes X No	If yes, optional Wetland Site ID: Near Flag CWWW-6					
Remarks: (Explain alternative procedures here or in a separate report.) Palustrine Forested Wetland. Edinger classification: Red-maple Hardwood Swamp.						
HYDROLOGY						
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)					
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)					
X Surface Water (A1) X Water-Stained Leaves (B	Drainage Patterns (B10)					
X High Water Table (A2) Aquatic Fauna (B13)	X Moss Trim Lines (B16)					
X Saturation (A3) Marl Deposits (B15)	Dry-Season Water Table (C2)					
Water Marks (B1) X_ Hydrogen Sulfide Odor (0	C1) Crayfish Burrows (C8)					
Sediment Deposits (B2) Oxidized Rhizospheres o	on Living Roots (C3) X Saturation Visible on Aerial Imagery (C9)					
Drift Deposits (B3) Presence of Reduced Iro	on (C4) Stunted or Stressed Plants (D1)					
Algal Mat or Crust (B4) Recent Iron Reduction in	Tilled Soils (C6) X Geomorphic Position (D2)					
Iron Deposits (B5) Thin Muck Surface (C7)	Shallow Aquitard (D3)					
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remark	(s) Microtopographic Relief (D4)					
Sparsely Vegetated Concave Surface (B8)	X FAC-Neutral Test (D5)					
Field Observations:						
Surface Water Present? Yes X No Depth (inches):	12					
Water Table Present? Yes X No Depth (inches):	0					
Saturation Present? Yes X No Depth (inches):						
(includes capillary fringe)						
Describe Recorded Data (stream gauge, monitoring well, aerial photos, prev	vious inspections), if available:					
Remarks:						
Relians.						

Tree Stratum (Plot size: 30' )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. Fraxinus pennsylvanica	50	Yes	FACW	New Local Basiness Countries
2. Ulmus americana	20	Yes	FACW	Number of Dominant Species That Are OBL, FACW, or FAC: 7 (A)
3. Populus deltoides	20	Yes	FAC	
4. Salix nigra	10	No	OBL	Total Number of Dominant Species Across All Strata: 7 (B)
5.				Bound of Bourious Couries
6.				Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
7				Prevalence Index worksheet:
	100	=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15' )				OBL species 40 x 1 = 40
1. Cornus amomum	30	Yes	FACW	FACW species 120 x 2 = 240
2. Cornus sericea	15	Yes	FACW	FAC species 20 x 3 = 60
3. Fraxinus pennsylvanica	5	No	FACW	FACU species 5 x 4 = 20
4. Lonicera morrowii	5	No	FACU	UPL species0 x 5 =0
5				Column Totals: 185 (A) 360 (B)
6.				Prevalence Index = B/A = 1.95
7.				Hydrophytic Vegetation Indicators:
	55	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5' )				X 2 - Dominance Test is >50%
1. Carex stricta	15	Yes	OBL	X 3 - Prevalence Index is ≤3.0 <sup>1</sup>
2. Sparganium americanum	10	Yes	OBL	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
3. Lythrum salicaria	5	No	OBL	data in Remarks or on a separate sheet)
4.				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5				<sup>1</sup> Indicators of hydric soil and wetland hydrology must be
6				present, unless disturbed or problematic.  Definitions of Vegetation Strata:
8.				Definitions of Vegetation Strata.
9.				<b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
10				Sapling/shrub – Woody plants less than 3 in. DBH
11				and greater than or equal to 3.28 ft (1 m) tall.
12				Herb – All herbaceous (non-woody) plants, regardless
	30	=Total Cover		of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size: 30' )				Woody vines – All woody vines greater than 3.28 ft in
1.				height.
2.				Hydrophytic
3.				Vegetation
4				Present?
		=Total Cover		
Remarks: (Include photo numbers here or on a separa	ate sheet.)			

Sampling Point: WET CWWW-€

**SOIL** Sampling Point: WET CWWW-6

Profile Desc Depth	ription: (Describe t Matrix	o the dep		ment the x Feature		tor or co	onfirm the absence of	indicators.)	
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks	
0-11	10YR 2/1	100					Loamy/Clayey		
11-13	10YR 4/2	80	10YR 4/6	20	С	М	Loamy/Clayey	Prominent redox concentrations	
13-20	10YR 5/1	75	10YR 5/6	25	С	M	Mucky Loam/Clay	Prominent redox concentrations	
10 20	1011( 0/1	-10	10110			171	Widoky Louin/Olay	1 Totalinetik Tedax dorioetikidaletis	
<sup>1</sup> Type: C=Co	oncentration, D=Deple	etion PM	-Reduced Matrix M	S-Mack	ed Sand	Grains	<sup>2</sup> l ocation: Pl	L=Pore Lining, M=Matrix.	
Hydric Soil I		GUOTI, IXIVI	-iveduced iviatilix, ivi	<u>O-Mask</u>	eu Sanu	Giailis.		or Problematic Hydric Soils <sup>3</sup> :	
Histosol			Polyvalue Belo	w Surfac	e (S8) ( <b>I</b>	_RR R,		ick (A10) ( <b>LRR K, L, MLRA 149B</b> )	
Histic Ep	ipedon (A2)		MLRA 149B	)			Coast Prairie Redox (A16) (LRR K, L, R)		
Black His			Thin Dark Surfa				149B) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R		
	n Sulfide (A4)		High Chroma S					e Below Surface (S8) (LRR K, L)	
	Layers (A5)	(0.4.4)	Loamy Mucky I			R K, L)		rk Surface (S9) (LRR K, L)	
	Below Dark Surface	(A11)	Loamy Gleyed		-2)		Iron-Manganese Masses (F12) (LRR K, L, R)		
	rk Surface (A12) lucky Mineral (S1)		Depleted Matrix Redox Dark Su	. ,	6)			nt Floodplain Soils (F19) ( <b>MLRA 149B</b> ) podic (TA6) ( <b>MLRA 144A, 145, 149B</b> )	
	leyed Matrix (S4)		Depleted Dark					ent Material (F21)	
	edox (S5)		Redox Depress		, ,			allow Dark Surface (F22)	
	Matrix (S6)		Marl (F10) ( <b>LR</b>		,			xplain in Remarks)	
Dark Sur	face (S7)								
2									
	hydrophytic vegetatical	on and w	etland hydrology mus	st be pre	sent, unl	ess distu	irbed or problematic.	_	
Type:	Layer (II observed).								
Depth (ir	nches):						Hydric Soil Presen	nt? Yes X No	
Remarks:							1,	<u> </u>	
Remarks.									



Wetland CWWW-6 View facing north/northwest



Wetland CWWW-6 Soils

Segment 3 - Package 2

# **SITE PHOTOGRAPHS**

Project/Site: CHPE	City/County: Fort Ann / Washington Sampling Date: 11/17/21
Applicant/Owner: TDI	State: NY Sampling Point: UPL CWWW-6
Investigator(s): C. Scrivner, C. Einstein	Section, Township, Range:
	relief (concave, convex, none): Convex Slope %: 3
Subregion (LRR or MLRA): LRR R Lat: 43-27'-3.68N	Long: 73-26-36.70W Datum: WGS 84
Soil Map Unit Name: HNC - Hollis-Rock outcrop association, gently sloping	
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes X No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly disturb	
Are Vegetation, Soil, or Hydrology naturally problema	atic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sam	
Hydrophytic Vegetation Present? Yes No X	Is the Sampled Area
Hydric Soil Present? Yes No X	within a Wetland? Yes No _X_
Wetland Hydrology Present? Yes No X	If yes, optional Wetland Site ID:
Mowed roadside.	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) Water-Stained Leaves (E	<u> </u>
High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)
Saturation (A3)Marl Deposits (B15)	Dry-Season Water Table (C2)
Water Marks (B1)  Hydrogen Sulfide Odor (	
Sediment Deposits (B2)  Oxidized Rhizospheres of Deposits (B2)	
Drift Deposits (B3) Presence of Reduced Iro	• • • • • • • • • • • • • • • • • • • •
Algal Mat or Crust (B4)  Recent Iron Reduction in This Muck Surface (C7)	
Iron Deposits (B5) ——Thin Muck Surface (C7) ——Thin Muck Surface (C7) ——The Muck Surface (C7) ——The Muck Surface (C7)	
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remark	
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No X Depth (inches):	
Water Table Present? Yes No X Depth (inches):	
Saturation Present? Yes No X Depth (inches):	:   Wetland Hydrology Present? Yes No _X
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	vious inspections), if available:
Remarks:	

Tree Stratum (Plot size:30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:	
1 2				Number of Dominant Species That Are OBL, FACW, or FAC:	(A)
3. 4.		<del></del>		Total Number of Dominant Species Across All Strata:	(B)
5. 6.				Percent of Dominant Species That Are OBL, FACW, or FAC:	50.0% (A/B)
7	-			Prevalence Index worksheet:	
	-	=Total Cover		Total % Cover of:	Multiply by:
Sapling/Shrub Stratum (Plot size:15')				OBL species 0	x 1 =0
1	(			FACW species 0	x 2 =0
2.				FAC species 45	x 3 = 135
3.				FACU species 25	x 4 = 100
4.				UPL species30>	x 5 = 150
5.				Column Totals: 100 (	(A) <u>385</u> (B)
6.				Prevalence Index = B/A =	= 3.85
7.				Hydrophytic Vegetation Indica	itors:
		=Total Cover		1 - Rapid Test for Hydrophyt	tic Vegetation
Herb Stratum (Plot size: 5' )		-		2 - Dominance Test is >50%	,
1. Setaria pumila	45	Yes	FAC	3 - Prevalence Index is ≤3.0	<sub>1</sub> 1
2. Rubia peregrina	25	Yes	UPL	4 - Morphological Adaptation	ns <sup>1</sup> (Provide supporting
3. Geranium maculatum	15	No	FACU	data in Remarks or on a s	
4. Poa pratensis	10	No	FACU	Problematic Hydrophytic Ve	getation <sup>1</sup> (Explain)
5. Pastinaca sativa	5	No	UPL	1 <u>.</u>	
6.	1			<sup>1</sup> Indicators of hydric soil and wet present, unless disturbed or prob	
7.	(			Definitions of Vegetation Strat	
8.	(				
9.				Tree – Woody plants 3 in. (7.6 c at breast height (DBH), regardles	
10				Sapling/shrub – Woody plants I	less than 3 in. DBH
11				and greater than or equal to 3.28	
12				Herb – All herbaceous (non-woo	ody) plants, regardless
	100	=Total Cover		of size, and woody plants less th	
Woody Vine Stratum (Plot size:) 1.				Woody vines – All woody vines height.	greater than 3.28 ft in
2.	(				
3.				Hydrophytic	
4				Vegetation Present? Yes	No X
4.		=Total Cover			<u>//</u>
Remarks: (Include photo numbers here or on a separ.	ata shoot )	-1010100001			
remarks. (include prioto numbers here of on a separ	ate sneet.)				

Sampling Point: UPL CWWW-6

**SOIL** Sampling Point: UPL CWWW-6

		o the dep				or or co	nfirm the absence of indicate	ors.)	
Depth	Matrix			x Featur		. 2	_		
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks	
0-7	10YR 3/1	100					Sandy	with gravel	
7-11	10YR 4/3	100					Sandy	with gravel	
								_	
	ncentration, D=Deple	etion, RM	=Reduced Matrix, M	S=Mask	ed Sand (	Grains.	<sup>2</sup> Location: PL=Pore		
Hydric Soil In					(00) (1			ematic Hydric Soils <sup>3</sup> :	
Histosol (			Polyvalue Belo		ce (S8) ( <b>L</b>	RR R,		) (LRR K, L, MLRA 149B)	
	pedon (A2)		MLRA 149B)	,	/I DD D	MI DA 4		dox (A16) (LRR K, L, R)	
Black His			Thin Dark Surfa					t or Peat (S3) (LRR K, L, R)	
	Sulfide (A4)		High Chroma S					Surface (S8) (LRR K, L)	
	Layers (A5)	(111)	Loamy Mucky N			K, L)		ce (S9) (LRR K, L)	
	Below Dark Surface	(ATT)	Loamy Gleyed	•	-2)			Masses (F12) (LRR K, L, R)	
	rk Surface (A12)		Depleted Matrix		e)			olain Soils (F19) ( <b>MLRA 149B</b> )	
	ucky Mineral (S1)		Redox Dark Su					A6) (MLRA 144A, 145, 149B)	
	eyed Matrix (S4)		Depleted Dark				Red Parent Material (F21)  Very Shallow Dark Surface (F22)		
Sandy Re			Redox Depress		3)				
	Matrix (S6)		Marl (F10) ( <b>LR</b>	R K, L)			Other (Explain in Remarks)		
Dark Surf	face (S7)								
<sup>3</sup> Indicators of	hydrophytic vegetation	on and we	etland hydrology mus	st be pre	esent, unle	ess distu	rbed or problematic.		
Restrictive L	ayer (if observed):								
Type:	Rock/G	ravel							
Depth (in	ches):	11					Hydric Soil Present?	Yes No_X_	
Remarks:									



Upland CWWW-6 View facing south/southwest



**Upland CWWW-6 Soils** 

Segment 3 - Package 2

# **SITE PHOTOGRAPHS**

Project/Site: CHPE	City/County: Fort Ann / Washington Sampling Date: 11/17/21					
Applicant/Owner: TDI	State: NY Sampling Point: WETCHWWW-16					
Investigator(s): C. Scrivner, C. Einstein	Section, Township, Range:					
Landform (hillside, terrace, etc.): Depression Local r	relief (concave, convex, none): Concave Slope %: 2					
Subregion (LRR or MLRA): LRR R Lat: 43-27-2.90N	Long: _73-26-46.95W					
Soil Map Unit Name: HNC - Hollis-Rock outcrop association, gently sloping						
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes X No (If no, explain in Remarks.)					
Are Vegetation, Soil, or Hydrology significantly disturb	<del></del>					
Are Vegetation, Soil, or Hydrology naturally problema	tic? (If needed, explain any answers in Remarks.)					
SUMMARY OF FINDINGS – Attach site map showing sam						
Hydrophytic Vegetation Present? Yes X No	Is the Sampled Area					
Hydric Soil Present?  Yes X No	within a Wetland? Yes X No					
Wetland Hydrology Present? Yes X No	If yes, optional Wetland Site ID: Near Flag CWWW-16					
Remarks: (Explain alternative procedures here or in a separate report.) Palustrine Scrubshrub Wetland. Edinger classification: Shrub Swamp.						
HYDROLOGY						
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)					
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)					
X Surface Water (A1) X Water-Stained Leaves (E	39) X Drainage Patterns (B10)					
High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)					
X Saturation (A3) Marl Deposits (B15)	Dry-Season Water Table (C2)					
Water Marks (B1)  Hydrogen Sulfide Odor (						
X Sediment Deposits (B2) Oxidized Rhizospheres of						
Drift Deposits (B3) Presence of Reduced Iro						
Algal Mat or Crust (B4)  Recent Iron Reduction in						
Iron Deposits (B5) — Thin Muck Surface (C7)	Shallow Aquitard (D3)					
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remark	<u> </u>					
Sparsely Vegetated Concave Surface (B8)	X FAC-Neutral Test (D5)					
Field Observations:						
Surface Water Present? Yes X No Depth (inches):						
Water Table Present? Yes No X Depth (inches):						
Saturation Present? Yes X No Depth (inches):	9 Wetland Hydrology Present? Yes X No					
(includes capillary fringe)						
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	vious inspections), if available:					
Remarks:						

Tree Stratum (Plot size:30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:					
2.				Number of Dominant Species That Are OBL, FACW, or FAC:3(A)					
3. 4.		· ——		Total Number of Dominant Species Across All Strata: 4 (B)					
5.         6.				Percent of Dominant Species That Are OBL, FACW, or FAC: 75.0% (A/B)					
7				Prevalence Index worksheet:					
		=Total Cover		Total % Cover of: Multiply by:					
Sapling/Shrub Stratum (Plot size:)				OBL species35 x 1 =35					
1. Alnus incana	75	Yes	FACW	FACW species95 x 2 =190					
2. Cornus sericea	10	No	FACW	FAC species 5 x 3 = 15					
3. Lonicera morrowii	10	No	FACU	FACU species 25 x 4 = 100					
4. Cornus amomum	5	No	FACW	UPL species 0 x 5 = 0					
5				Column Totals: 160 (A) 340 (B)					
6		_		Prevalence Index = B/A = 2.13					
7				Hydrophytic Vegetation Indicators:					
<del></del>	100	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation					
Herb Stratum (Plot size: 5' )		•		X 2 - Dominance Test is >50%					
1. Typha X glauca	20	Yes	OBL	X 3 - Prevalence Index is ≤3.0 <sup>1</sup>					
Sparganium americanum	15	Yes	OBL	4 - Morphological Adaptations (Provide supporting					
Solidago canadensis	10	No	FACU	data in Remarks or on a separate sheet)					
4. Equisetum arvense	5	No	FAC	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)					
5. Bidens frondosa	5	No	FACW	10 that the state of building poil and wellend budgelong must be					
6.		-		<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.					
7.	-			Definitions of Vegetation Strata:					
8.	-								
9.				<b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.					
10.									
11.		-		Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.					
12.	1	-							
12.	55	=Total Cover		<b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.					
Woody Vine Stratum (Plot size: 30' )		_10(a) 0070.		·					
1. Vitis aestivalis	5	Yes	FACU	<b>Woody vines</b> – All woody vines greater than 3.28 ft in height.					
		100	17.00	neight.					
3.		-		Hydrophytic					
4.		- ——		Vegetation Present? Yes X No					
4.	5	=Total Cover		Flesent: 165 A NO					
Control of the state where the base of the control of the state of the		=10lai Covei							
Remarks: (Include photo numbers here or on a separate sheet.)									

Sampling Point: VET CWWW-1

**SOIL** Sampling Point:WET CWWW-16

Depth	Matrix	.5 tile ue		x Featur			nfirm the absence of i		
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks	
0-7	10YR 3/1	100					Sandy		
7-20	10YR 4/1	90	10YR 4/6	10	С		Sandy	Prominent redox concentrations	
								The state of the s	
-									
<sup>1</sup> Type: C=Co	oncentration, D=Depl	etion, RM	=Reduced Matrix, M	IS=Mask	ed Sand	Grains.	<sup>2</sup> Location: PL	_=Pore Lining, M=Matrix.	
Hydric Soil	Indicators:						Indicators for Problematic Hydric Soils <sup>3</sup> :		
Histosol			Polyvalue Belo		ce (S8) ( <b>I</b>	RR R,		ck (A10) ( <b>LRR K, L, MLRA 149B</b> )	
	pipedon (A2)		MLRA 149B	•			Coast Prairie Redox (A16) (LRR K, L, R)		
Black Hi	stic (A3) n Sulfide (A4)		Thin Dark Surf High Chroma S					cky Peat or Peat (S3) (LRR K, L, R) e Below Surface (S8) (LRR K, L)	
	d Layers (A5)		Loamy Mucky					k Surface (S9) (LRR K, L)	
	d Below Dark Surface	e (A11)	Loamy Gleyed			· · · · · · · · · · · · · · · · · · ·		ganese Masses (F12) (LRR K, L, R)	
	ark Surface (A12)	` ,	X Depleted Matri		,			t Floodplain Soils (F19) ( <b>MLRA 149B</b> )	
Sandy M	lucky Mineral (S1)		Redox Dark Su	urface (F	6)		Mesic Sp	oodic (TA6) ( <b>MLRA 144A, 145, 149B</b> )	
Sandy G	Sandy Gleyed Matrix (S4) Depleted Dark Surface (F7)				Red Parent Material (F21)				
	Sandy Redox (S5) Redox Depressions (F8)				Very Shallow Dark Surface (F22)				
	Stripped Matrix (S6) Marl (F10) (LRR K, L)					Other (Explain in Remarks)			
Dark Su	rface (S7)								
<sup>3</sup> Indicators o	f hydrophytic vegetati	on and w	etland hydrology mu	st be pre	sent. unl	ess distu	rbed or problematic.		
	Layer (if observed):		<u></u>						
Type:									
Depth (ii	nches):						Hydric Soil Presen	t? Yes_X_ No	
Remarks:								<del></del> -	



Wetland CWWW-16 View facing southwest



**Wetland CWWW-16 Soils** 

Segment 3 - Package 2

# **SITE PHOTOGRAPHS**

Project/Site: CHPE	City/County: Fort Ann / Washington Sampling Date: 11/17/21
Applicant/Owner: TDI	State: NY Sampling Point: UPL CWWW-16
Investigator(s): C. Scrivner, C. Einstein	Section, Township, Range:
	relief (concave, convex, none): Convex Slope %: 3
Subregion (LRR or MLRA): LRR R Lat: 43-27-2.68N	Long: 73-26-46.80W Datum: WGS 84
Soil Map Unit Name: HNC - Hollis-Rock outcrop association, gently sloping	
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes X No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrologysignificantly disturb	
Are Vegetation, Soil, or Hydrology naturally problema	atic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing same	npling point locations, transects, important features, etc.
Lindraphitia Vagatatian Dragant?	Is the Complet Area
Hydrophytic Vegetation Present?  Hydric Soil Present?  Yes No X  No X	Is the Sampled Area within a Wetland? Yes No X
Wetland Hydrology Present? Yes No X	within a Wetland? Yes No X  If yes, optional Wetland Site ID:
Remarks: (Explain alternative procedures here or in a separate report.)	ii yoo, opiionai wolaana elle ib.
Successional Old Field	
	J
	J
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) Water-Stained Leaves (E	B9) Drainage Patterns (B10)
High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)
Saturation (A3) Marl Deposits (B15)	Dry-Season Water Table (C2)
Water Marks (B1) Hydrogen Sulfide Odor (	
Sediment Deposits (B2)  Oxidized Rhizospheres of	
Drift Deposits (B3) Presence of Reduced Iro	
Algal Mat or Crust (B4) Recent Iron Reduction in	
Iron Deposits (B5) — Thin Muck Surface (C7)	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7)Other (Explain in Remark	
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No X Depth (inches):	· <u></u>
Water Table Present? Yes No X Depth (inches):	
Saturation Present? Yes No X Depth (inches):	Wetland Hydrology Present? Yes No _X
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	vious inspections), if available:
Demorko	
Remarks:	

Tree Stratum (Plot size:)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1 2		·		Number of Dominant Species That Are OBL, FACW, or FAC: (A)
3				Total Number of Dominant Species Across All Strata: 6 (B)
<ul><li>5.</li><li>6.</li></ul>				Percent of Dominant Species That Are OBL, FACW, or FAC:33.3% (A/B)
7				Prevalence Index worksheet:
		=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size:)				OBL species 0 x 1 = 0
1. Cornus sericea	5	Yes	FACW	FACW species 10 x 2 = 20
2. Rhus typhina	5	Yes	UPL	FAC species 5 x 3 = 15
3. Ulmus americana	5	Yes	FACW	FACU species 45 x 4 = 180
4.				UPL species60 x 5 =300
5.				Column Totals: 120 (A) 515 (B)
6.				Prevalence Index = B/A = 4.29
7.				Hydrophytic Vegetation Indicators:
	15	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5')		•		2 - Dominance Test is >50%
Solidago canadensis	40	Yes	FACU	3 - Prevalence Index is ≤3.0 <sup>1</sup>
Pastinaca sativa	30	Yes	UPL	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
Rubia peregrina	10	No	UPL	data in Remarks or on a separate sheet)
4. Pastinaca sativa	10	No	UPL	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5. Lotus corniculatus	5	No	FACU	
6. Setaria pumila	5	No	FAC	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
7.		· · ·		Definitions of Vegetation Strata:
8.				_
9.				<b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
10				Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
12.				Herb – All herbaceous (non-woody) plants, regardless
	100	=Total Cover		of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size: 30')		•		Washing All woods wines greater their 2.20 ft in
Celastrus orbiculatus	5	Yes	UPL	<b>Woody vines</b> – All woody vines greater than 3.28 ft in height.
2.				
3.				Hydrophytic
4.				Vegetation Present? Yes No X
	5	=Total Cover		135 <u>No. 24</u>
December (Include about a construction of the construction)		- Total Cover		
Remarks: (Include photo numbers here or on a separa	ate sheet.)			

Sampling Point: JPL CWWW-16

Profile Desc Depth	ription: (Describe to Matrix	o the dep		ment the x Feature		or or co	nfirm the absence of indica	ators.)		
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remark	(S	
0-7	10YR 3/1	100					Sandy	with grav	vel	
7-11	10YR 4/3	100					Sandy	with grav	vel	
	101111/10	100					Canay			
	-									
										,
<sup>1</sup> Type: C=Co	ncentration, D=Deple	etion, RM	=Reduced Matrix, M	S=Mask	ed Sand	Grains.	<sup>2</sup> Location: PL=Por	e Lining, M=Matr	ix.	
Hydric Soil I	ndicators:						Indicators for Pro			
Histosol	` '		Polyvalue Belo		e (S8) ( <b>L</b>	.RR R,		10) ( <b>LRR K, L, M</b>		
	ipedon (A2)		MLRA 149B	,	(I DD D			Redox (A16) (LR		
Black His	stic (A3) n Sulfide (A4)		Thin Dark Surf High Chroma S					eat or Peat (S3) (		
	Layers (A5)		Loamy Mucky							<b>L</b> )
	Below Dark Surface	(A11)	Loamy Gleyed			, = ,		se Masses (F12)		L, R)
	rk Surface (A12)	,	Depleted Matri		,			dplain Soils (F19		
Sandy M	ucky Mineral (S1)		Redox Dark Su	urface (F	6)		Mesic Spodic	(TA6) ( <b>MLRA 14</b>	4A, 145,	149B)
	leyed Matrix (S4)		Depleted Dark	Surface	(F7)		Red Parent Ma	aterial (F21)		
	edox (S5)		Redox Depres		3)			Dark Surface (F2	2)	
	Matrix (S6)		Marl (F10) ( <b>LR</b>	R K, L)			Other (Explain	in Remarks)		
Dark Sur	face (S7)									
<sup>3</sup> Indicators of	hydrophytic vegetation	on and w	etland hydrology mu	st be pre	sent, unl	ess distu	rbed or problematic.			
	.ayer (if observed):		,							
Type:	Rock/G	ravel								
Depth (ir	nches):	11					Hydric Soil Present?	Yes	No	Χ
Remarks:										



**Upland CWWW-16 View facing southwest** 



**Upland CWWW-16 Soils** 

Segment 3 - Package 2

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

Project/Site: CHPE	City/County: Fort Ann / Washington Sampling Date: 11/17/21
Applicant/Owner: TDI	State: NY Sampling Point: WET CXXX-4
Investigator(s): C. Scrivner, C. Einstein	Section, Township, Range:
	relief (concave, convex, none): Concave Slope %: 2
Subregion (LRR or MLRA): LRR R Lat: 43-27-5.10N	Long: 73-26-43.13W Datum: WGS 84
Soil Map Unit Name: HNC - Hollis-Rock outcrop association, gently sloping	<u> </u>
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes X No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly disturb	
Are Vegetation, Soil, or Hydrologynaturally problema	tic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sam	pling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes X No	Is the Sampled Area
Hydric Soil Present?  Yes X No	within a Wetland? Yes X No
Wetland Hydrology Present? Yes X No	If yes, optional Wetland Site ID: Near Flag CXXX-4
Remarks: (Explain alternative procedures here or in a separate report.) Palustrine Scrubshrub Wetland - Floodplain. Edinger classification: Shrub S	Swamp.
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
X Surface Water (A1) X Water-Stained Leaves (B	39) Drainage Patterns (B10)
X High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)
X Saturation (A3) — Marl Deposits (B15)	Dry-Season Water Table (C2)
Water Marks (B1) Hydrogen Sulfide Odor (0	
Sediment Deposits (B2) Oxidized Rhizospheres o	<u> </u>
Drift Deposits (B3) Presence of Reduced Iro	• • • • • • • • • • • • • • • • • • • •
Algal Mat or Crust (B4) Recent Iron Reduction in	· · · · · · · · · · · · · · · · · · ·
Iron Deposits (B5) Thin Muck Surface (C7)	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remark	<u> </u>
Sparsely Vegetated Concave Surface (B8)	X FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes X No Depth (inches):	·
Water Table Present? Yes X No Depth (inches):	
Saturation Present? Yes X No Depth (inches):	5 Wetland Hydrology Present? Yes X No
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, prev	vious inspections), if available:
Remarks:	

Troe Stratum (Diet eize: 20'	Absolute	Dominant Species?	Indicator	Dominance Test worksheet:		
Tree Stratum (Plot size: 30' )	% Cover	Species?	Status FACW	Dominance Test worksneet:		
Alnus incana     Fraxinus pennsylvanica	<u>15</u> 5	Yes Yes	FACW	Number of Dominant Species That Are OBL, FACW, or FAC: 6 (A)		
<ol> <li>Fraxinus pennsylvanica</li> <li>3.</li> </ol>		162	FACW	That Are OBL, FACW, or FAC: 6 (A)		
4.				Total Number of Dominant Species Across All Strata: 8 (B)		
5				Percent of Dominant Species		
6.				That Are OBL, FACW, or FAC: 75.0% (A/B)		
7				Prevalence Index worksheet:		
	20	=Total Cover		Total % Cover of: Multiply by:		
Sapling/Shrub Stratum (Plot size:)				OBL species 0 x 1 = 0		
1. Cornus sericea	30	Yes	FACW	FACW species 127 x 2 = 254		
2. Alnus incana	25	Yes	FACW	FAC species 10 x 3 = 30		
3. Lonicera morrowii	20	Yes	FACU	FACU species 30 x 4 = 120		
4. Cornus amomum	15	No	FACW	UPL species 0 x 5 = 0		
5. Rhamnus cathartica	10	No	FAC	Column Totals: 167 (A) 404 (B)		
6.				Prevalence Index = B/A = 2.42		
7				Hydrophytic Vegetation Indicators:		
	100	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation		
Herb Stratum (Plot size: 5' )				X 2 - Dominance Test is >50%		
1. Onoclea sensibilis	15	Yes	FACW	X 3 - Prevalence Index is ≤3.0 <sup>1</sup>		
Lysimachia nummularia	10	Yes	FACW	4 - Morphological Adaptations <sup>1</sup> (Provide supporting		
3. Alnus incana	8	No	FACW	data in Remarks or on a separate sheet)		
4. Lonicera morrowii	5	No	FACU	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)		
5. Solidago gigantea	2	No	FACW	1 Indicators of hydric call and watland hydrology must be		
6. Impatiens capensis	2	No	FACW	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.		
7.				Definitions of Vegetation Strata:		
8.				Tree – Woody plants 3 in. (7.6 cm) or more in diameter		
9.				at breast height (DBH), regardless of height.		
10.				Continuate the West release the 2 in DDI		
11.				Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.		
12.						
	42	=Total Cover		<b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.		
Woody Vine Stratum (Plot size: 30' )						
1. Vitis aestivalis	5	Yes	FACU	<b>Woody vines</b> – All woody vines greater than 3.28 ft in height.		
2.				3		
3.				Hydrophytic		
4.				Vegetation Present? Yes X No		
	5	=Total Cover				
Remarks: (Include photo numbers here or on a separ.		-				
remarks. (include prioto numbers here or on a separ	ale Sileel.)					

Sampling Point: WET CXXX-4

**SOIL** Sampling Point: WET CXXX-4

	ription: (Describe t	o the dep				or or co	onfirm the absence of indicators.)
Depth	Matrix			x Feature		. 2	
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture Remarks
0-4	10YR 2/1	100					Loamy/Clayey
4-9	10YR 3/1	100					Loamy/Clayey
9-20	10YR 5/1	60	10YR 4/6	40	<u>C</u>	<u>M</u>	Loamy/Clayey Prominent redox concentrations
<sup>1</sup> Type: C=Co	oncentration, D=Deple	etion, RM	=Reduced Matrix, MS	S=Maske	ed Sand	Grains.	<sup>2</sup> Location: PL=Pore Lining, M=Matrix.
Hydric Soil			•				Indicators for Problematic Hydric Soils <sup>3</sup> :
Histosol	(A1)		Polyvalue Belov	w Surfac	e (S8) ( <b>L</b>	.RR R,	2 cm Muck (A10) ( <b>LRR K, L, MLRA 149B</b> )
	pipedon (A2)		MLRA 149B)				Coast Prairie Redox (A16) (LRR K, L, R)
Black Hi			Thin Dark Surfa				
	n Sulfide (A4)		High Chroma S				Polyvalue Below Surface (S8) (LRR K, L)
	l Layers (A5) d Below Dark Surface	(A11)	Loamy Mucky N			( K, L)	Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L, R)
	ark Surface (A12)	(A11)	X Depleted Matrix		2)		Piedmont Floodplain Soils (F19) (MLRA 149B)
	lucky Mineral (S1)		Redox Dark Su		6)		Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
	leyed Matrix (S4)		Depleted Dark				Red Parent Material (F21)
	edox (S5)		Redox Depress				Very Shallow Dark Surface (F22)
	Matrix (S6)		Marl (F10) (LRI	•	,		Other (Explain in Remarks)
Dark Su	rface (S7)						_
31			- 41 1 h				inha dan arabban akin
	f hydrophytic vegetation for the state of th	on and w	etiand nydrology mus	it be pre	sent, uni	ess distui	Irbed or problematic.
Type:	-uyo. ( oboo. vou).						
Depth (in	nches):						Hydric Soil Present? Yes X No
Remarks:							



Wetland CXXX-4 View facing south



Wetland CXXX-4 Soils

Segment 3 - Package 2

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

Project/Site: CHPE	City/County: Fort Ann / Washington Sampling Date: 11/17/21
Applicant/Owner: TDI	State: NY Sampling Point: UPLCXXX-4
Investigator(s): C. Scrivner, C. Einstein	Section, Township, Range:
Landform (hillside, terrace, etc.): Hillslope Local	relief (concave, convex, none): Convex Slope %: 3
Subregion (LRR or MLRA): LRR R Lat: 43-27-5.22N	Long: 73-26-43.33W Datum: WGS 84
Soil Map Unit Name: HNC - Hollis-Rock outcrop association, gently sloping	
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes X No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrologysignificantly distur	
Are Vegetation, Soil, or Hydrologynaturally problems	atic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing san	mpling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No X	Is the Sampled Area
Hydric Soil Present? Yes No X	within a Wetland? Yes No X
Wetland Hydrology Present? Yes No X	If yes, optional Wetland Site ID:
Mowed roadside.	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) Water-Stained Leaves (	(B9) Drainage Patterns (B10)
High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)
Saturation (A3) Marl Deposits (B15)	Dry-Season Water Table (C2)
Water Marks (B1) Hydrogen Sulfide Odor (	
Sediment Deposits (B2)  Oxidized Rhizospheres	
Drift Deposits (B3) Presence of Reduced In	
Algal Mat or Crust (B4)Recent Iron Reduction in	
Iron Deposits (B5) ——Thin Muck Surface (C7) ——Other (Explain in Remove	
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remar Sparsely Vegetated Concave Surface (B8)	
	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No X Depth (inches):	
Water Table Present? Yes No X Depth (inches): Saturation Present? Yes No X Depth (inches):	
	:   Wetland Hydrology Present? Yes No _X
(includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	evious inspections), if available:
Describe Necorded Data (stream gauge, monitoring well, acrial priotes, pre	avious inspections), ii available.
Remarks:	

Tree Stratum (Plot size:)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:	
1 2				Number of Dominant Species That Are OBL, FACW, or FAC:(A)	
3. 4.		·		Total Number of Dominant Species Across All Strata: 2 (B)	
5. 6.				Percent of Dominant Species That Are OBL, FACW, or FAC:50.0% (A/E	3)
7.	(			Prevalence Index worksheet:	
		=Total Cover		Total % Cover of: Multiply by:	
Sapling/Shrub Stratum (Plot size:15')				OBL species0 x 1 =0	
1.				FACW species 0 x 2 = 0	
2.				FAC species 50 x 3 = 150	
3				FACU species15 x 4 =60	
4.				UPL species35 x 5 =175	
5.				Column Totals: 100 (A) 385 (E	3)
6.				Prevalence Index = B/A = 3.85	
7.				Hydrophytic Vegetation Indicators:	7
		=Total Cover		1 - Rapid Test for Hydrophytic Vegetation	
Herb Stratum (Plot size: 5' )		_		2 - Dominance Test is >50%	
1. Setaria pumila	45	Yes	FAC	3 - Prevalence Index is ≤3.0 <sup>1</sup>	
2. Rubia peregrina	20	Yes	UPL	4 - Morphological Adaptations <sup>1</sup> (Provide supporting	ng
3. Pastinaca sativa	10	No	UPL	data in Remarks or on a separate sheet)	
4. Taraxacum officinale	5	No	FACU	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)	
5. Plantago lanceolata	5	No	FACU	<del></del>	
6. Artemisia vulgaris	5	No	UPL	<sup>1</sup> Indicators of hydric soil and wetland hydrology must present, unless disturbed or problematic.	ре
7. Lotus corniculatus	5	No	FACU	Definitions of Vegetation Strata:	٦
8. Equisetum arvense	5	No	FAC	_	
9.				<b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diamet at breast height (DBH), regardless of height.	er
10				Sapling/shrub – Woody plants less than 3 in. DBH	
11				and greater than or equal to 3.28 ft (1 m) tall.	
12				Herb – All herbaceous (non-woody) plants, regardles	s
	100	=Total Cover		of size, and woody plants less than 3.28 ft tall.	
Woody Vine Stratum (Plot size:) 1.				<b>Woody vines</b> – All woody vines greater than 3.28 ft in height.	1
2.					٦
3.				Hydrophytic	
4.				Vegetation           Present?         Yes         No X	
	1	=Total Cover			
Remarks: (Include photo numbers here or on a separ	ate sheet )	•			$\dashv$
(					

Sampling Point: UPL CXXX-4

SOIL Sampling Point: UPL CXXX-4

		o the dep				or or co	nfirm the absence of indicato	ors.)
Depth	Matrix		i e	x Featur		. 2		
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-6	10YR 2/1	100					Loamy/Clayey	
6-12	10YR 2/2	100					Loamy/Clayey	with gravel
	-							
	ncentration, D=Deple	etion, RM	=Reduced Matrix, M	S=Mask	ed Sand (	Grains.	<sup>2</sup> Location: PL=Pore	
Hydric Soil In					(0-) (			ematic Hydric Soils <sup>3</sup> :
Histosol (			Polyvalue Belo		ce (S8) ( <b>L</b>	RR R,		) (LRR K, L, MLRA 149B)
	pedon (A2)		MLRA 149B)	,				dox (A16) (LRR K, L, R)
Black His			Thin Dark Surfa					t or Peat (S3) (LRR K, L, R)
	n Sulfide (A4)		High Chroma S					Surface (S8) (LRR K, L)
Stratified	Layers (A5)		Loamy Mucky I	Mineral (	F1) ( <b>LRR</b>	(K, L)	Thin Dark Surface	ce (S9) ( <b>LRR K, L</b> )
Depleted	Below Dark Surface	(A11)	Loamy Gleyed	Matrix (F	<del>-</del> 2)		Iron-Manganese	Masses (F12) (LRR K, L, R)
Thick Da	rk Surface (A12)		Depleted Matrix	к (F3)			Piedmont Floodp	olain Soils (F19) ( <b>MLRA 149B</b> )
Sandy Mu	ucky Mineral (S1)		Redox Dark Su	ırface (F	6)		Mesic Spodic (T/	A6) (MLRA 144A, 145, 149B)
Sandy GI	eyed Matrix (S4)		Depleted Dark	Surface	(F7)		Red Parent Mate	erial (F21)
Sandy Re	edox (S5)		Redox Depress	sions (F8	3)		Very Shallow Da	rk Surface (F22)
Stripped	Matrix (S6)		Marl (F10) ( <b>LR</b>	R K, L)			Other (Explain in	Remarks)
Dark Surf							<u>—</u>	
3Indicators of	hydrophytic vegetation	on and w	otland budralagu muu	ot ho pro	oont unk	aa diatuu	rhad ar problematic	
	ayer (if observed):	on and we	aliand hydrology mus	st be pre	esent, unit	ess distu	rbed or problematic.	
Туре:	Rock/	Fill						
Depth (in	ches):	12					Hydric Soil Present?	Yes No_X
Remarks:								



**Upland CXXX-4 View facing northeast** 



**Upland CXXX-4 Soils** 

Segment 3 - Package 2

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

Project/Site: CHPE	City/County: Fort Ann / Washington Sampling Date: 11/17/21
Applicant/Owner: TDI	State: NY Sampling Point: Wet CYYY-3
Investigator(s): C. Scrivner, C. Einstein	Section, Township, Range:
Landform (hillside, terrace, etc.): Depression Local re	elief (concave, convex, none): Concave Slope %: 5
Subregion (LRR or MLRA): LRR R Lat: 43-27-1.03N	Long: <u>73-26-48.70W</u> Datum: <u>WGS 84</u>
Soil Map Unit Name: HNC - Hollis-Rock outcrop association, gently sloping a	and sloping NWI classification: PEM1
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes X No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly disturbed	<del></del>
Are Vegetation, Soil, or Hydrology naturally problemati	
SUMMARY OF FINDINGS – Attach site map showing samp	
Hydrophytic Vegetation Present? Yes X No	Is the Sampled Area
Hydric Soil Present? Yes X No	within a Wetland? Yes X No
Wetland Hydrology Present? Yes X No	If yes, optional Wetland Site ID: Near Flag CYYY-3
Palustrine Emergent Marsh dominated by cattail. Edinger classification: Catta	ail Marsh
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
X Surface Water (A1) Water-Stained Leaves (B9	<u> </u>
X High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)
X Saturation (A3)Marl Deposits (B15)	Dry-Season Water Table (C2)
Water Marks (B1) Hydrogen Sulfide Odor (C	
Sediment Deposits (B2)  Oxidized Rhizospheres or	
Drift Deposits (B3) Presence of Reduced Iron	· ,
Algal Mat or Crust (B4)  Recent Iron Reduction in  This Muck Surface (C7)	
Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7)  X Other (Explain in Remarks	Shallow Aquitard (D3)  Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8)	X FAC-Neutral Test (D5)
	A PAC-IVEUITAL TEST (DO)
Field Observations:	.
Surface Water Present? Yes X No Depth (inches):	
Water Table Present? Yes X No Depth (inches): _ Saturation Present? Yes X No Depth (inches): _	
Saturation Present? Yes X No Depth (inches): _ (includes capillary fringe)	0 Wetland Hydrology Present? Yes X No
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous	vious inspections), if available:
Describe Necorded Data (Stream gauge, monitoring won, acriai prices, p. c.)	nous inspections), ii available.
Remarks: Directly connected to the Champlain Canal via culvert. Hydrology may be infl	luenced by mean high water.

Tree Stratum (Plot size:30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
Fraxinus pennsylvanica	10	Yes	FACW	Number of Dominant Species
2. Ulmus americana	10	Yes	FACW	That Are OBL, FACW, or FAC:5 (A)
3. 4.				Total Number of Dominant Species Across All Strata: 6 (B)
5 6				Percent of Dominant Species That Are OBL, FACW, or FAC: 83.3% (A/B)
7.				Prevalence Index worksheet:
	20	=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size:)				OBL species100 x 1 =100
1. Alnus incana	15	Yes	FACW	FACW species 53 x 2 = 106
2. <u>Ulmus americana</u>	8	Yes	FACW	FAC species 5 x 3 = 15
3. Betula populifolia	5	No	FAC	FACU species10 x 4 =40
4. Lonicera morrowii	5	No	FACU	UPL species 0 x 5 = 0
5. Cornus amomum	5	No	FACW	Column Totals: 168 (A) 261 (B)
6. Cornus sericea	5	No	FACW	Prevalence Index = B/A =1.55
7.				Hydrophytic Vegetation Indicators:
	43	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5' )				X 2 - Dominance Test is >50%
Typha angustifolia	100	Yes	OBL	X 3 - Prevalence Index is ≤3.0 <sup>1</sup>
2.				4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
3. 4.				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5.				<u> </u>
6.				<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
7.				Definitions of Vegetation Strata:
8. 9.				<b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
10.				Sapling/shrub – Woody plants less than 3 in. DBH
11				and greater than or equal to 3.28 ft (1 m) tall.
12				Herb – All herbaceous (non-woody) plants, regardless
West Was Obstance (District	100	=Total Cover		of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size: 30' )	_	Vaa	FACIL	<b>Woody vines</b> – All woody vines greater than 3.28 ft in
1. Vitis aestivalis	5	Yes	FACU	height.
2.				Hydrophytic
3. 4.				Vegetation Present? Yes X No
	5	=Total Cover		· · · · · · · · · · · · · · · · · · ·
Remarks: (Include photo numbers here or on a separa		•		1
Tremarks. (include photo numbers here of our a separa	ate sileet.)			

Sampling Point: Wet CYYY-3

SOIL Sampling Point: Wet CYYY-3

		o the de				or or co	nfirm the absence of indicate	ors.)	
Depth	Matrix			x Featur		. 2	<b>-</b> .		
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks	
0-7	10YR 2/1	100					Mucky Sand		
7-20	N 3/	100					Sandy		
								_	
								_	
								_	
								_	
								_	
								_	
1Typo: C-C	oncentration, D=Depl	otion DM	-Poducod Matrix M	S_Mack	od Sand i	Grains	<sup>2</sup> Location: PL=Pore	Lining M-Matrix	
Hydric Soil		elion, Kivi	=Neduced Matrix, M	<u>S=IVIASKI</u>	eu Sanu '	Giailis.		ematic Hydric Soils <sup>3</sup> :	
Histosol			Polyvalue Belo	w Surfac	ce (S8) ( <b>L</b>	.RR R,		) (LRR K, L, MLRA 149B)	
	pipedon (A2)		MLRA 149B		` , ,			dox (A16) ( <b>LRR K, L, R</b> )	
Black Hi	stic (A3)		? Thin Dark Surfa	ace (S9)	(LRR R,	MLRA 1	49B) 5 cm Mucky Pea	t or Peat (S3) (LRR K, L, R)	
Hydroge	n Sulfide (A4)		High Chroma S	3ands (S	11) (LRR	K, L)	Polyvalue Below	Surface (S8) (LRR K, L)	
	l Layers (A5)		Loamy Mucky I			R K, L)		ce (S9) ( <b>LRR K, L</b> )	
	d Below Dark Surface	(A11)	Loamy Gleyed		F2)			Masses (F12) (LRR K, L, R)	
	ark Surface (A12)		Depleted Matrix	, ,				plain Soils (F19) (MLRA 149B)	
· · · · · · · · · · · · · · · · · · ·	lucky Mineral (S1)		Redox Dark Su					A6) (MLRA 144A, 145, 149B)	
	sleyed Matrix (S4)		Depleted Dark Redox Depress				Red Parent Mate	, ,	
	edox (S5) Matrix (S6)		Marl (F10) (LR	,	3)		Very Shallow Da Other (Explain in		
X Dark Su				, _,			Cther (Explain in Nonlaine)		
<u> </u>									
<sup>3</sup> Indicators of	f hydrophytic vegetati	on and w	etland hydrology mu:	st be pre	esent, unle	ess distu	rbed or problematic.		
Restrictive I	_ayer (if observed):								
Type:									
Depth (in	nches):						Hydric Soil Present?	Yes X No	
Remarks:									



Wetland CYYY-3 View facing southwest



Wetland CYYY-3 Soils

Segment 3 - Package 2

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

Project/Site: CHPE	City/County: Fort Ann / Washington Sampling Date: 11/17/21
Applicant/Owner: TDI	State: NY Sampling Point: Wet CYYY-10
Investigator(s): C. Scrivner, C. Einstein	Section, Township, Range:
	relief (concave, convex, none): Concave Slope %: 2
Subregion (LRR or MLRA): LRR R Lat: 43-26-56.08N	Long: 73-26-51.67W Datum: WGS 84
Soil Map Unit Name: HNC - Hollis-Rock outcrop association, gently sloping	
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes X No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly disturb	bed? Are "Normal Circumstances" present? Yes X No
Are Vegetation, Soil, or Hydrology naturally problema	atic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sam	
Hydrophytic Vegetation Present? Yes X No	Is the Sampled Area
Hydric Soil Present? Yes X No	within a Wetland? Yes X No
Wetland Hydrology Present? Yes X No	If yes, optional Wetland Site ID: Near Flag CYYY-10
Remarks: (Explain alternative procedures here or in a separate report.) Palustrine Scrubshrub Wetland. Edinger classification: Shrub Swamp.	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) X Water-Stained Leaves (E	B9) X Drainage Patterns (B10)
X High Water Table (A2) Aquatic Fauna (B13)	X Moss Trim Lines (B16)
X Saturation (A3)Marl Deposits (B15)	Dry-Season Water Table (C2)
Water Marks (B1)  Hydrogen Sulfide Odor (Carter and Particular Sul	
X Sediment Deposits (B2) Oxidized Rhizospheres o	
Drift Deposits (B3) Presence of Reduced Iro	· , , , , , , , , , , , , , , , , , , ,
Algal Mat or Crust (B4)  — Recent Iron Reduction in  This Muck Surface (C7)	· · · · · · · · · · · · · · · · · · ·
Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Thin Muck Surface (C7) Other (Explain in Remark	Shallow Aquitard (D3)  ks)  Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8)	X FAC-Neutral Test (D5)
	A PACTIVEURAL TEST (DO)
Field Observations:	
Surface Water Present? Yes No X Depth (inches):  Water Table Present? Yes X No Depth (inches):	
Saturation Present? Yes X No Depth (inches):  Saturation Present? Yes X No Depth (inches):	
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	L vious inspections), if available:
20001100 110001000 2010 (0.102 gavage,	vious inspessions, il available.
Remarks:	

Tree Stratum (Plot size: 30' )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
2.				Number of Dominant Species That Are OBL, FACW, or FAC: (A)
3. 4.				Total Number of Dominant Species Across All Strata: 7 (B)
5 6				Percent of Dominant Species That Are OBL, FACW, or FAC: 71.4% (A/B)
7.				Prevalence Index worksheet:
		=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15')				OBL species 20 x 1 = 20
1. Lonicera morrowii	35	Yes	FACU	FACW species 85 x 2 = 170
2. Cornus amomum	25	Yes	FACW	FAC species 5 x 3 = 15
3. Alnus incana	25	Yes	FACW	FACU species40 x 4 =160
4. Ilex verticillata	10	No	FACW	UPL species0 x 5 =0
5. Cornus sericea	5	No	FACW	Column Totals: 150 (A) 365 (B)
6				Prevalence Index = B/A = 2.43
7				Hydrophytic Vegetation Indicators:
	100	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5' )				X 2 - Dominance Test is >50%
Lysimachia nummularia	10	Yes	FACW	X 3 - Prevalence Index is ≤3.0 <sup>1</sup>
2. Onoclea sensibilis	10	Yes	FACW	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
3. Galium palustre	10	Yes	OBL	data in Remarks or on a separate sheet)
4. Carex stricta	5	No	OBL	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5. Sparganium americanum	5	No	OBL	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be
6. Equisetum arvense	5	No	FAC	present, unless disturbed or problematic.
7				Definitions of Vegetation Strata:
8 9.				<b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
10.		<del>-</del>		
11.				Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
12.		<del></del>		
	45	=Total Cover		<b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size: 30' )		_		
1. Vitis aestivalis	5	Yes	FACU	Woody vines – All woody vines greater than 3.28 ft in height.
2.				
3.				Hydrophytic
4.				Vegetation Present? Yes X No
	5	=Total Cover		
Remarks: (Include photo numbers here or on a separ		-		
Tremarks. (include prote numbers here of on a separ	ate sheet.)			

Sampling Point: Wet CYYY-10

SOIL Sampling Point: Wet CYYY-10

Profile Desc	cription: (Describe t	o the dep	oth needed to docu	ment the	e indicat	tor or co	nfirm the absence of in	dicators.)	
Depth	Matrix Redox Features								
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks	
0-7	10YR 3/1	70	10YR 5/6	15	С	M	Sandy	Prominent redox concentrations	
			2.5YR 3/6	15	С	M		Prominent redox concentrations	
7-13	10YR 4/1	75	10YR 4/6	20	<u>C</u>	M	Sandy	Prominent redox concentrations	
			2.5YR 3/6	5	С	М		Prominent redox concentrations	
13-20	N 4/	100					Sandy		
1									
	oncentration, D=Depl	etion, RM	=Reduced Matrix, MS	S=Maske	ed Sand	Grains.		Pore Lining, M=Matrix.	
Hydric Soil			Dobarduo Polo	w Curfoc	o (CO) (I	DD D		Problematic Hydric Soils <sup>3</sup> :	
Histosol	pipedon (A2)		Polyvalue Belov		e (36) (L	KK K,		rie Pedox (A16) (LRR K, L, MLRA 149B)	
Black Hi			? Thin Dark Surfa	,	(IRRR	MIRA 1	Coast Prairie Redox (A16) (LRR K, L, R) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R)		
	n Sulfide (A4)		High Chroma S				Polyvalue Below Surface (S8) (LRR K, L)		
	d Layers (A5)		Loamy Mucky N				Thin Dark Surface (S9) (LRR K, L)		
	d Below Dark Surface	(A11)	Loamy Gleyed				Iron-Manganese Masses (F12) (LRR K, L, R)		
Thick Da	ark Surface (A12)		Depleted Matrix	к (F3)			Piedmont Floodplain Soils (F19) (MLRA 149B)		
Sandy M	lucky Mineral (S1)		Redox Dark Su	rface (F	6)		Mesic Spodic (TA6) ( <b>MLRA 144A, 145, 149B</b> )		
Sandy G	Gleyed Matrix (S4)		Depleted Dark	Surface	(F7)		Red Parent Material (F21)		
X Sandy R	, ,		Redox Depress		3)		Very Shallow Dark Surface (F22)		
	Matrix (S6)		Marl (F10) ( <b>LRI</b>	R K, L)			Other (Explain in Remarks)		
X Dark Su	rface (S7)								
3Indicators o	f hydrophytic vegetati	on and w	otland hydrology mus	ot ha nra	aant unl	ooo diatu	rhad or problematic		
	Layer (if observed):	on and we	aliand hydrology mus	st be pre	sent, uni	ess aistu	rbed or problematic.		
Type:	Layer (ii observea).								
Depth (ii	nches):						Hydric Soil Present?	Yes X No	
Remarks:									



Wetland CYYY-10 View facing northwest



Wetland CYYY-10 Soils

Segment 3 - Package 2

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

Project/Site: CHPE	City/County: Fort Ann / Washington Sampling Date: 11/17/21
Applicant/Owner: TDI	State: NY Sampling Point: UPL
Investigator(s): C. Scrivner, C. Einstein	Section, Township, Range:
	relief (concave, convex, none): Convex Slope %: 5
Subregion (LRR or MLRA): LRR R Lat: 43-27-0.98N	Long: 73-26-48.50W Datum: WGS 84
Soil Map Unit Name: HNC - Hollis-Rock outcrop association, gently sloping	
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes X No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly disturb	<del></del>
Are Vegetation, Soil, or Hydrology naturally problema	atic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sam	
Hydrophytic Vegetation Present? Yes No X	Is the Sampled Area
Hydric Soil Present? Yes No X	within a Wetland? Yes No _ X_
Wetland Hydrology Present? Yes No X	If yes, optional Wetland Site ID:
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) Water-Stained Leaves (E	<u> </u>
High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)
Saturation (A3)  Marl Deposits (B15)	Dry-Season Water Table (C2)
Water Marks (B1)  Hydrogen Sulfide Odor (i	
Sediment Deposits (B2)  Oxidized Rhizospheres of Parkural Learning (B2)	<u> </u>
Drift Deposits (B3) Presence of Reduced Iro	
Algal Mat or Crust (B4)  Iron Deposits (B5)  Recent Iron Reduction in Thin Muck Surface (C7)	n Tilled Soils (C6) Geomorphic Position (D2) ? Shallow Aquitard (D3)
l <del></del>	
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remark Sparsely Vegetated Concave Surface (B8)	
<del>_ ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` `</del>	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No X Depth (inches):	
Water Table Present? Yes No X Depth (inches): Saturation Present? Yes No X Depth (inches):	
	Wetland Hydrology Present? Yes No X
(includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	
Describe Recorded Data (stream gauge, monitoring well, aerial priotos, pre	vious inspections), ii available.
Remarks:	

<u>Tree Stratum</u> (Plot size: 30' )	Absolute % Cover	Dominant Species?	Indicator	Dominance Test worksheet:		
Tree Stratum (Plot size: 30' )  1. Fraxinus pennsylvanica	76 Cover	Species? Yes	Status FACW	Dominance Test worksneet.		
Ulmus americana	10	Yes	FACW	Number of Dominant Species That Are OBL, FACW, or FAC:3(A)		
3. 4.				Total Number of Dominant Species Across All Strata: 8 (B)		
5.						
6				Percent of Dominant Species That Are OBL, FACW, or FAC: 37.5% (A/B)		
7.				Prevalence Index worksheet:		
	20	=Total Cover		Total % Cover of: Multiply by:		
Sapling/Shrub Stratum (Plot size:)				OBL species 0 x 1 = 0		
1. Rhus typhina	5	Yes	UPL	FACW species 20 x 2 = 40		
2. Juniperus virginiana	5	Yes	FACU	FAC species15 x 3 =45		
3.				FACU species 40 x 4 = 160		
4.				UPL species60 x 5 =300		
5.		-		Column Totals: 135 (A) 545 (B)		
6.				Prevalence Index = B/A = 4.04		
7.				Hydrophytic Vegetation Indicators:		
	10	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation		
Herb Stratum (Plot size: 5' )				2 - Dominance Test is >50%		
1. Rubia peregrina	25	Yes	UPL	3 - Prevalence Index is ≤3.0 <sup>1</sup>		
2. Monarda punctata	20	Yes	UPL	4 - Morphological Adaptations <sup>1</sup> (Provide supporting		
3. Setaria pumila	15	Yes	FAC	data in Remarks or on a separate sheet)		
4. Solidago canadensis	10	No	FACU	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)		
5. Symphyotrichum ericoides	10	No	FACU	Indicators of hydric soil and wetland hydrology must be		
6. Pastinaca sativa	10	No	UPL	present, unless disturbed or problematic.		
7. Lolium pratense	5	No	FACU	Definitions of Vegetation Strata:		
8. Oenothera biennis	5	No	FACU	Total Washington Oir (70 and an arrivalisment)		
9.				<b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.		
10.				Sapling/shrub – Woody plants less than 3 in. DBH		
11				and greater than or equal to 3.28 ft (1 m) tall.		
12.				Herb – All herbaceous (non-woody) plants, regardless		
	100	=Total Cover		of size, and woody plants less than 3.28 ft tall.		
Woody Vine Stratum (Plot size: 30')				Woody vines – All woody vines greater than 3.28 ft in		
Vitis aestivalis	5	Yes	FACU	height.		
2.						
3.		-		Hydrophytic Vegetation		
4.				Present? Yes No X		
	5	=Total Cover				
Remarks: (Include photo numbers here or on a separa	ate sheet.)					
The manual (manual protest manual and a copare						

Sampling Point:

UPL

SOIL Sampling Point: UPL

Depth	Matrix	o tile dep		x Featur		101 01 00	nfirm the absence of indicators.)
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture Remarks
0-11	10YR 3/2	100					Sandy with gravel
	oncentration, D=Deple	etion, RM	=Reduced Matrix, MS	S=Mask	ed Sand	Grains.	<sup>2</sup> Location: PL=Pore Lining, M=Matrix.
Hydric Soil I			5 5.		(00) (1		Indicators for Problematic Hydric Soils <sup>3</sup> :
Histosol	` ,		Polyvalue Belov		ce (S8) ( <b>L</b>	RR R,	2 cm Muck (A10) (LRR K, L, MLRA 149B)
Black His	oipedon (A2)		MLRA 149B) Thin Dark Surfa	•	/I RR R	MIRA 1	Coast Prairie Redox (A16) (LRR K, L, R)  5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
	n Sulfide (A4)		High Chroma S				Polyvalue Below Surface (S8) (LRR K, L)
	Layers (A5)		Loamy Mucky N				Thin Dark Surface (S9) (LRR K, L)
	Below Dark Surface	(A11)	Loamy Gleyed			, ,	Iron-Manganese Masses (F12) (LRR K, L, R)
	ark Surface (A12)		Depleted Matrix				Piedmont Floodplain Soils (F19) (MLRA 149B)
Sandy M	lucky Mineral (S1)		Redox Dark Su	ırface (F	6)		Mesic Spodic (TA6) ( <b>MLRA 144A, 145, 149B</b> )
Sandy G	leyed Matrix (S4)		Depleted Dark	Surface	(F7)		Red Parent Material (F21)
	edox (S5)		Redox Depress		8)		Very Shallow Dark Surface (F22)
<del></del> ··	Matrix (S6)		Marl (F10) ( <b>LR</b> l	R K, L)			Other (Explain in Remarks)
Dark Sur	face (S7)						
3Indicators of	hydrophytic vegetation	on and we	otland hydrology muy	et bo pro	scont unl	oce dietu	rhad or problematic
	_aver (if observed):	on and we	stiand flydrology mus	st be pre	sserii, urii	ess distu	Toda of problematic.
Type:	Roc	k					
Depth (ir	nches):	11					Hydric Soil Present? Yes No_X
Remarks:							,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
ixemaiks.							



**Upland CYYY-3 and CYYY-10 View facing south/southwest** 



**Upland CYYY-3 and CYYY-10 Soils** 

Segment 3 - Package 2

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

Project/Site: CHPE	City/County: Fort Ann / Washington Sampling Date: 11/17/21
Applicant/Owner: TDI	State: NY Sampling Point: Wet CYYY-25
Investigator(s): C. Scrivner, C. Einstein	Section, Township, Range:
Landform (hillside, terrace, etc.): Depression Local r	relief (concave, convex, none): Concave Slope %: 3
Subregion (LRR or MLRA): LRR R Lat: 43-26-44.29N	Long: 73-26-51.35W Datum: WGS 84
Soil Map Unit Name: HNC - Hollis-Rock outcrop association, gently sloping	
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes X No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly disturb	<del></del>
Are Vegetation, Soil, or Hydrology naturally problema:	tic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sam	pling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes X No	Is the Sampled Area
Hydric Soil Present?  Yes X No	within a Wetland? Yes X No
Wetland Hydrology Present? Yes X No	If yes, optional Wetland Site ID: Near Flag CYYY-25
Remarks: (Explain alternative procedures here or in a separate report.) Palustrine Forested Wetland. Edinger classification: Red-maple Hardwood S	Swamp.
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) X_ Water-Stained Leaves (B	39) X Drainage Patterns (B10)
X High Water Table (A2) Aquatic Fauna (B13)	X Moss Trim Lines (B16)
X Saturation (A3) Marl Deposits (B15)	Dry-Season Water Table (C2)
Water Marks (B1) Hydrogen Sulfide Odor (C	
X Sediment Deposits (B2) Oxidized Rhizospheres o	
Drift Deposits (B3) Presence of Reduced Iro	• • • • • • • • • • • • • • • • • • • •
Algal Mat or Crust (B4)  Recent Iron Reduction in	
Iron Deposits (B5) — Thin Muck Surface (C7)	X Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remark	
Sparsely Vegetated Concave Surface (B8)	X FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No X Depth (inches):	
Water Table Present? Yes X No Depth (inches):	
Saturation Present? Yes X No Depth (inches):	0 Wetland Hydrology Present? Yes X No
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, prev	vious inspections), if available:
Remarks:	

<u>Tree Stratum</u> (Plot size: 30' )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. Acer rubrum	45	Yes	FAC	Number of Dominant Species
2. Fraxinus pennsylvanica	35	Yes	FACW	That Are OBL, FACW, or FAC: 6 (A)
3. Ulmus americana	15	No	FACW	Total Northwest Description
4.				Total Number of Dominant Species Across All Strata:  8 (B)
5 6		· ——		Percent of Dominant Species That Are OBL, FACW, or FAC: 75.0% (A/B)
7.				Prevalence Index worksheet:
	95	=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15' )		•		OBL species 5 x 1 = 5
1. Cornus amomum	25	Yes	FACW	FACW species 135 x 2 = 270
2. Fraxinus pennsylvanica	10	Yes	FACW	FAC species 50 x 3 = 150
3. Lonicera morrowii	10	Yes	FACU	FACU species 20 x 4 = 80
4. Rhamnus cathartica	5	No	FAC	UPL species 0 x 5 = 0
5. Ulmus americana	5	No	FACW	Column Totals: 210 (A) 505 (B)
6.				Prevalence Index = B/A = 2.40
7.				Hydrophytic Vegetation Indicators:
	55	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5' )		•		X 2 - Dominance Test is >50%
Onoclea sensibilis	30	Yes	FACW	X 3 - Prevalence Index is ≤3.0 <sup>1</sup>
Lysimachia nummularia	15	Yes	FACW	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
3. Lonicera morrowii	5	No	FACU	data in Remarks or on a separate sheet)
4. Carex stricta	5	No	OBL	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5.		·		<u>-</u>
6.				<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
7.				Definitions of Vegetation Strata:
8.				Topo Washington 2 in (7.6 am) as many in dispersion
9.				<b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
10.				Sonling/obrub Woody plants loss than 2 in DPU
11.				Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
12.				Harb All barbassas (ran was b) slouts researched
	55	=Total Cover		<b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size: 30' )		•		Manda distribution All superdistribution processes the at 2 00 ft in
1. Vitis aestivalis	5	Yes	FACU	<b>Woody vines</b> – All woody vines greater than 3.28 ft in height.
2.				
3.				Hydrophytic
4.				Vegetation Present? Yes X No
	5	=Total Cover		
Remarks: (Include photo numbers here or on a separ				1
Remarks: (include photo numbers here or on a separ	ate sneet.)			

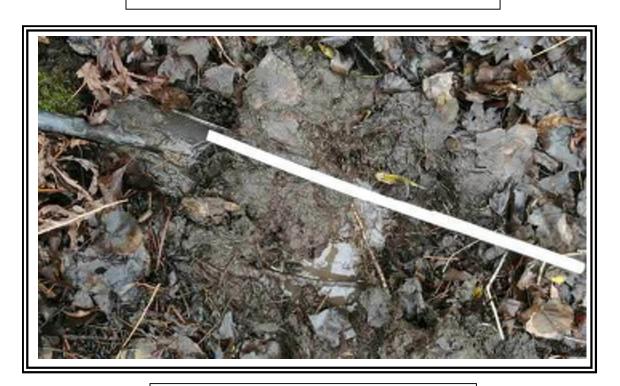
Sampling Point: Wet CYYY-25

**SOIL** Sampling Point: Wet CYYY-25

		the dep				or or co	nfirm the absence of indicate	ors.)
Depth ("	Matrix			x Feature		2	T. (	D I .
(inches)	Color (moist)	%	Color (moist)	<u>%</u>	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-10	10YR 2/1	100					Loamy/Clayey	
	•							
1Typo: C-Co	ncentration, D=Deple	tion PM-	-Poducod Matrix M	S_Mack	od Sand i	Grains	<sup>2</sup> Location: PL=Pore	Lining M-Matrix
Hydric Soil In		tion, ixivi-	-iteaucea Matrix, Mi	<u>J-IVIASK</u>	eu Sanu '	Grains.		lematic Hydric Soils <sup>3</sup> :
Histosol (			Polyvalue Belo	w Surfac	ce (S8) ( <b>L</b>	RR R.		) (LRR K, L, MLRA 149B)
	pedon (A2)		MLRA 149B		() (-	,		edox (A16) ( <b>LRR K, L, R</b> )
Black His			Thin Dark Surfa	ace (S9)	(LRR R,	MLRA 1		at or Peat (S3) (LRR K, L, R)
Hydroger	Sulfide (A4)		High Chroma S	Sands (S	11) (LRR	K, L)	Polyvalue Below	Surface (S8) (LRR K, L)
Stratified	Layers (A5)		Loamy Mucky N	Mineral (	F1) (LRR	k, L)	Thin Dark Surfa	ce (S9) (LRR K, L)
Depleted	Below Dark Surface	(A11)	Loamy Gleyed	Matrix (F	<del>-</del> 2)		Iron-Manganese	Masses (F12) (LRR K, L, R)
Thick Da	rk Surface (A12)		Depleted Matrix	x (F3)			Piedmont Flood	plain Soils (F19) (MLRA 149B)
Sandy Mu	ucky Mineral (S1)		Redox Dark Su	ırface (F	6)		Mesic Spodic (T	(A6) (MLRA 144A, 145, 149B)
Sandy GI	eyed Matrix (S4)		Depleted Dark	Surface	(F7)		Red Parent Mate	erial (F21)
Sandy Re			Redox Depress		3)			ark Surface (F22)
	Matrix (S6)		Marl (F10) ( <b>LR</b>	R K, L)			X Other (Explain in	n Remarks)
Dark Surf	ace (S7)							
3 In diaptors of	hudron hudio vo gototic			at ha nea	امير نموه		rhad ar prahlamatia	
	hydrophytic vegetation ayer (if observed):	on and we	liand hydrology mus	st be pre	sent, uni	ess distui	rbed or problematic.	
Type:	Rock	k						
-		10					Hydric Soil Present?	Voc. V. No.
Depth (in		10					nyuric son Fresent?	Yes X No
Remarks:	uration and water tab	do just bo	low the curfeed with	a domir	anno of I	= A C \	ad OBL species	
Observed sat	uration and water tab	ne just be	low the surface with	a domi	iance or i	ACW ai	id OBL species.	



Wetland CYYY-25 View facing west/southwest



Wetland CYYY-25 Soils

Segment 3 - Package 2

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

Project/Site: CHPE	City/County: Fort Ann / Washington Sampling Date: 11/17/21
Applicant/Owner: TDI	State: NY Sampling Point: UPL CYYY-25
Investigator(s): C. Scrivner, C. Einstein	Section, Township, Range:
	relief (concave, convex, none): Convex Slope %: 3
Subregion (LRR or MLRA): LRR R Lat: 43-26-44.50N	Long: 73-26-50.83W Datum: WGS 84
Soil Map Unit Name: HNC - Hollis-Rock outcrop association, gently sloping	
Are climatic / hydrologic conditions on the site typical for this time of year?  Are Vogetation Soil or Hydrology significantly disturb	Yes X No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly disturb	
Are Vegetation, Soil, or Hydrologynaturally problema SUMMARY OF FINDINGS – Attach site map showing same	
Hydrophytic Vegetation Present? Yes No X	Is the Sampled Area
Hydrophytic Vegetation Present?  Hydric Soil Present?  Yes No X  No X	within a Wetland? Yes No_X_
Wetland Hydrology Present?  Yes No X	If yes, optional Wetland Site ID:
Successional Old Field.	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) Water-Stained Leaves (E	<u> </u>
High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)
Saturation (A3) Marl Deposits (B15)	Dry-Season Water Table (C2)
Water Marks (B1)  Hydrogen Sulfide Odor (	
Sediment Deposits (B2)  Oxidized Rhizospheres of the control of th	
Drift Deposits (B3) Presence of Reduced Iro	
Algal Mat or Crust (B4)Recent Iron Reduction in	
Iron Deposits (B5) ——Thin Muck Surface (C7) ——Thin Muck Surface (C7) ——Thin Muck Surface (C7) ——Thin Muck Surface (C7)	Shallow Aquitard (D3)  Microtopographic Relief (D4)
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remark	
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No X Depth (inches):	
Water Table Present? Yes No X Depth (inches):	
Saturation Present? Yes No X Depth (inches):	Wetland Hydrology Present? Yes No X
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	vious inspections), if available:
Remarks:	

Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1 2				Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)
3 4				Total Number of Dominant Species Across All Strata: 5 (B)
5. 6.				Percent of Dominant Species That Are OBL, FACW, or FAC: 20.0% (A/B)
7				Prevalence Index worksheet:
		=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size:15')				OBL species 0 x 1 = 0
1. Acer negundo	5	Yes	FAC	FACW species 2 x 2 = 4
2. Lonicera morrowii	5	Yes	FACU	FAC species 12 x 3 = 36
3. Cornus amomum	2	No	FACW	FACU species <u>85</u> x 4 = <u>340</u>
4. Rhamnus cathartica	2	No	FAC	UPL species 20 x 5 = 100
5				Column Totals: 119 (A) 480 (B)
6				Prevalence Index = B/A = 4.03
7				Hydrophytic Vegetation Indicators:
	14	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size:5' )				2 - Dominance Test is >50%
1. Solidago canadensis	45	Yes	FACU	3 - Prevalence Index is ≤3.0 <sup>1</sup>
2. Lolium pratense	30	Yes	FACU	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
3. Pastinaca sativa	10	No	UPL	data in Remarks or on a separate sheet)
4. Rubia peregrina	10	No	UPL	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5. Setaria pumila	5	No	FAC	<u> </u>
6.				<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
7				Definitions of Vegetation Strata:
8. 9.				<b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
10.				Sapling/shrub – Woody plants less than 3 in. DBH
11				and greater than or equal to 3.28 ft (1 m) tall.
12				Herb – All herbaceous (non-woody) plants, regardless
	100	=Total Cover		of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size: 30' )		•		Manda vines All woods vines greater than 2.20 ft in
1. Vitis aestivalis	5	Yes	FACU	<b>Woody vines</b> – All woody vines greater than 3.28 ft in height.
3.				Hydrophytic
4.				Vegetation Present? Yes No X
· -	5	=Total Cover		100 <u> </u>
		- Total Cover		
Remarks: (Include photo numbers here or on a sepa	rate sheet.)	=Total Cover		

Sampling Point: UPL CYYY-25

**SOIL** Sampling Point: UPL CYYY-25

		the dep				or or co	nfirm the absence of indi	cators.)
Depth	Matrix			x Featur		. 2	<b>-</b> .	5 .
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-11	10YR 3/2	100					Sandy	with gravel
								_
								_
1= 0 . 0 .			De Lee IMerica M				21	
Hydric Soil Ir	ncentration, D=Deple	etion, RIVI=	Reduced Matrix, M	S=Mask	ed Sand (	irains.		ore Lining, M=Matrix. roblematic Hydric Soils³:
Histosol (			Polyvalue Belo	w Surfac	n) (82) a	RR R		A10) (LRR K, L, MLRA 149B)
	pedon (A2)		MLRA 149B		.e (30) ( <b>L</b>	ixix ix,		e Redox (A16) ( <b>LRR K, L, R</b> )
Black His			Thin Dark Surfa	•	(LRR R.	MLRA 1		Peat or Peat (S3) (LRR K, L, R)
	Sulfide (A4)	•	High Chroma S					elow Surface (S8) (LRR K, L)
	Layers (A5)		Loamy Mucky I					urface (S9) (LRR K, L)
	Below Dark Surface	(A11)	Loamy Gleyed			, ,		ese Masses (F12) (LRR K, L, R)
	k Surface (A12)	` ,	Depleted Matrix		,			podplain Soils (F19) ( <b>MLRA 149B</b> )
	ucky Mineral (S1)	•	Redox Dark Su	ırface (F	6)			c (TA6) (MLRA 144A, 145, 149B)
	eyed Matrix (S4)	•	Depleted Dark	Surface	(F7)			Material (F21)
Sandy Re	edox (S5)	·	Redox Depress	sions (F8	3)		Very Shallow	v Dark Surface (F22)
Stripped I	Matrix (S6)		Marl (F10) ( <b>LR</b>	R K, L)			Other (Expla	in in Remarks)
Dark Surf	ace (S7)							
	hydrophytic vegetation	on and we	tland hydrology mus	st be pre	sent, unle	ess distu	bed or problematic.	
	ayer (if observed):							
Type:	Rocl	k						
Depth (in	ches):	11					Hydric Soil Present?	YesNo_X_
Remarks:								



Upland CYYY-25 View facing north



**Upland CYYY-25 Soils** 

Segment 3 - Package 2

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

Project/Site: CHPE	City/County: Fort Ann / Washington Sampling Date: 11/17/21
Applicant/Owner: TDI	State: NY Sampling Point: Wet CZZZ-4
Investigator(s): C. Scrivner, C. Einstein	Section, Township, Range:
	relief (concave, convex, none): Concave Slope %: 1
Subregion (LRR or MLRA): LRR R Lat: 43-26-44.10N	Long: 73-26-50.00W Datum: WGS 84
Soil Map Unit Name: HNC - Hollis-Rock outcrop association, gently sloping	
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes X No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrologysignificantly disturb	<del></del>
Are Vegetation, Soil, or Hydrologynaturally problemat	tic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sam	pling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes X No	Is the Sampled Area
Hydric Soil Present? Yes X No	within a Wetland? Yes X No
Wetland Hydrology Present? Yes X No	If yes, optional Wetland Site ID: Near Flag CZZZ-4
Palustrine Scrubshrub Wetland. Edinger classification: Shrub Swamp.	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) X Water-Stained Leaves (B	Drainage Patterns (B10)
X High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)
X Saturation (A3) Marl Deposits (B15)	Dry-Season Water Table (C2)
Water Marks (B1) Hydrogen Sulfide Odor (C	
Sediment Deposits (B2) Oxidized Rhizospheres o	<u> </u>
Drift Deposits (B3) Presence of Reduced Iron	
Algal Mat or Crust (B4)Recent Iron Reduction in	· · · · · · · · · · · · · · · · · · ·
Iron Deposits (B5)  — Thin Muck Surface (C7)  Other (Fireligin in Report of P7)	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7)Other (Explain in Remark	<u> </u>
Sparsely Vegetated Concave Surface (B8)	X FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No X Depth (inches):	
Water Table Present? Yes X No Depth (inches):	
Saturation Present? Yes X No Depth (inches):	7 Wetland Hydrology Present? Yes X No
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, prev	vious inspections), if available:
Remarks:	

Tree Stratum (Plot size:30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:		
Fraxinus pennsylvanica 2.	15	Yes	FACW	Number of Dominant Species That Are OBL, FACW, or FAC: 5 (A)		
3. 4.				Total Number of Dominant Species Across All Strata: 7 (B)		
5. 6.				Percent of Dominant Species That Are OBL, FACW, or FAC: 71.4% (A/B)		
7.				Prevalence Index worksheet:		
	15	=Total Cover		Total % Cover of: Multiply by:		
Sapling/Shrub Stratum (Plot size: 15' )				OBL species 15 x 1 = 15		
1. Cornus amomum	35	Yes	FACW	FACW species 105 x 2 = 210		
2. Lonicera morrowii	30	Yes	FACU	FAC species 10 x 3 = 30		
3. Viburnum lentago	10	No	FAC	FACU species 30 x 4 = 120		
4. Cornus sericea	10	No	FACW	UPL species 15 x 5 = 75		
5. Alnus incana	10	No	FACW	Column Totals: 175 (A) 450 (B)		
6.				Prevalence Index = B/A = 2.57		
7.				Hydrophytic Vegetation Indicators:		
	95	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation		
Herb Stratum (Plot size: 5' )	- 55			X 2 - Dominance Test is >50%		
1. Cornus amomum	20	Yes	FACW	X 3 - Prevalence Index is ≤3.0 <sup>1</sup>		
Carex lacustris	15	Yes	OBL	4 - Morphological Adaptations <sup>1</sup> (Provide supporting		
Lysimachia nummularia	10	Yes	FACW	data in Remarks or on a separate sheet)		
Solidago gigantea	5	No	FACW	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)		
5.		INO	TACW			
6.		- <u></u>		<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.		
7.				Definitions of Vegetation Strata:		
8.				Tree – Woody plants 3 in. (7.6 cm) or more in diameter		
9.				at breast height (DBH), regardless of height.		
10 11.		· ———		Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.		
12.						
	50	=Total Cover		<b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.		
Woody Vine Stratum (Plot size: 30')				Woody vines – All woody vines greater than 3.28 ft in		
Celastrus orbiculatus	15	Yes	UPL	height.		
2		· ——		Hydrophytic		
3.				Vegetation		
4		<del></del>		Present? Yes X No No		
	15	=Total Cover				
Remarks: (Include photo numbers here or on a separa	ite sheet.)					

Sampling Point: Wet CZZZ-4

SOIL Sampling Point: Wet CZZZ-4

	• `	o the de				or or co	nfirm the absence of in	ndicators.)	
Depth	Matrix			x Featur		. 2	<b>-</b> .	Б	
(inches)	Color (moist)	%	Color (moist)	<u>%</u>	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks	
0-7	10YR 3/1	100					Loamy/Clayey		
7-16	10YR 5/1	70	10YR 4/6	30	С	M	Loamy/Clayey	Prominent redox concentrations	
<sup>1</sup> Type: C=Co	oncentration, D=Deple	etion, RM	=Reduced Matrix, MS	S=Mask	ed Sand	Grains.	<sup>2</sup> Location: PL=	=Pore Lining, M=Matrix.	
Hydric Soil		,	,				Indicators for Problematic Hydric Soils <sup>3</sup> :		
Histosol	(A1)		Polyvalue Belov	w Surfac	ce (S8) ( <b>L</b>	.RR R,	2 cm Mucl	k (A10) ( <b>LRR K, L, MLRA 149B</b> )	
Histic Ep	pipedon (A2)		MLRA 149B)	)			Coast Prairie Redox (A16) (LRR K, L, R)		
Black Hi			Thin Dark Surfa				49B) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R)		
	n Sulfide (A4)		High Chroma S					Below Surface (S8) (LRR K, L)	
	Layers (A5)	(8.4.4)	Loamy Mucky N			R K, L)	Thin Dark Surface (S9) (LRR K, L)		
	X Depleted Below Dark Surface (A11) Loamy Gleyed Matrix (F2)					Iron-Manganese Masses (F12) (LRR K, L, R)			
	ark Surface (A12) lucky Mineral (S1)		X Depleted Matrix (F3) Redox Dark Surface (F6)				Piedmont Floodplain Soils (F19) (MLRA 149B)  Mesic Spodic (TA6) (MLRA 144A, 145, 149B)		
	ileyed Matrix (S4)		Depleted Dark Surface (F7)				Red Parent Material (F21)		
	edox (S5)		Redox Depressions (F8)				Very Shallow Dark Surface (F22)		
	Matrix (S6)		Mari (F10) ( <b>LRR K, L</b> )				Other (Explain in Remarks)		
Dark Su	Dark Surface (S7)								
	f hydrophytic vegetati	on and w	etland hydrology mus	st be pre	sent, unl	ess distu	rbed or problematic.		
Restrictive Layer (if observed):									
Type:									
Depth (ir	nches):						Hydric Soil Present	? Yes <u>X</u> No	
Remarks:									



Wetland CZZZ-4 View facing northwest



**Wetland CZZZ-4 Soils** 

Segment 3 - Package 2

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

Project/Site: CHPE	City/County: Fort Ann / Washington Sampling Date: 11/17/21					
Applicant/Owner: TDI	State: NY Sampling Point: UPL CZZZ-4					
Investigator(s): C. Scrivner, C. Einstein	Section, Township, Range:					
	relief (concave, convex, none): None Slope %: 0					
Subregion (LRR or MLRA): LRR R Lat: 43-26-44.06N	Long: 73-26-50.22W Datum: WGS 84					
Soil Map Unit Name: HNC - Hollis-Rock outcrop association, gently sloping						
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes X No (If no, explain in Remarks.)					
Are Vegetation, Soil, or Hydrology significantly disturb	· ·					
Are Vegetation, Soil, or Hydrologynaturally problema	atic? (If needed, explain any answers in Remarks.)					
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.						
Hydrophytic Vegetation Present? Yes No X	Is the Sampled Area					
Hydric Soil Present? Yes No X	within a Wetland? Yes No X					
Wetland Hydrology Present? Yes No X	If yes, optional Wetland Site ID:					
Mowed roadside.						
HYDROLOGY						
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)					
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)					
Surface Water (A1) Water-Stained Leaves (E	B9) Drainage Patterns (B10)					
High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)					
Saturation (A3) Marl Deposits (B15)	Dry-Season Water Table (C2)					
Water Marks (B1)  Hydrogen Sulfide Odor (						
Sediment Deposits (B2)  Oxidized Rhizospheres of						
Drift Deposits (B3) Presence of Reduced Iro	· ,					
Algal Mat or Crust (B4)Recent Iron Reduction in						
Iron Deposits (B5)  — Thin Muck Surface (C7)  — Other (Figures in Remodelland Control of the Con	• • • • •					
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remark Sparsely Vegetated Concave Surface (B8)						
	FAC-Neutral Test (D5)					
Field Observations:						
Surface Water Present? Yes No X Depth (inches):						
Water Table Present? Yes No X Depth (inches): Saturation Present? Yes No X Depth (inches):						
	:   Wetland Hydrology Present? Yes No _X					
(includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre						
Describe Recorded Data (stream gauge, monitoring well, aenai photos, pre	inspections), ii avaliable.					
Remarks:						
Remarks.						

Absolute	Dominant	Indicator	
% Cover	Species?	Status	Dominance Test worksheet:
			Number of Dominant Species
			That Are OBL, FACW, or FAC: 1 (A)
			Total New Local Character
			Total Number of Dominant Species Across All Strata: 3 (B)
· ·			
			Percent of Dominant Species That Are OBL, FACW, or FAC: 33.3% (A/B
			Prevalence Index worksheet:
	=Total Cover		Total % Cover of: Multiply by:
)			OBL species 0 x 1 = 0
			FACW species $0 \times 2 = 0$
			FAC species 30 x 3 = 90
		-	FACU species 35 x 4 = 140
			UPL species 35 x 5 = 175
			Column Totals: 100 (A) 405 (E
			Prevalence Index = B/A = 4.05
			Hydrophytic Vegetation Indicators:
	-Total Cover		1 - Rapid Test for Hydrophytic Vegetation
	=10tal Covel		2 - Dominance Test is >50%
20	\/	FAC	
			3 - Prevalence Index is ≤3.0¹
			4 - Morphological Adaptations <sup>1</sup> (Provide supportine data in Remarks or on a separate sheet)
			Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
15	No	UPL	<sup>1</sup> Indicators of hydric soil and wetland hydrology must l
			present, unless disturbed or problematic.
			Definitions of Vegetation Strata:
			Tree – Woody plants 3 in. (7.6 cm) or more in diamet
			at breast height (DBH), regardless of height.
			Sapling/shrub – Woody plants less than 3 in. DBH
			and greater than or equal to 3.28 ft (1 m) tall.
			Herb – All herbaceous (non-woody) plants, regardles
100	=Total Cover		of size, and woody plants less than 3.28 ft tall.
)			Woody vines – All woody vines greater than 3.28 ft in
)			<b>Woody vines</b> – All woody vines greater than 3.28 ft ir height.
			height.
)  			Hydrophytic
			height.
<u> </u>	30 20 20 15	=Total Cover  =Total Cover  30 Yes 20 Yes 15 No 15 No	=Total Cover  =Total Cover  =Total Cover  30

SOIL Sampling Point: UPL CZZZ-4

Profile Description: (Describe to the dep				or or co	nfirm the absence of indicators.)
Depth Matrix		Feature		. 2	
(inches) Color (moist) %	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture Remarks
0-6 10YR 2/1 100					Sandy With stone gravel
					<u> </u>
					<u> </u>
<sup>1</sup> Type: C=Concentration, D=Depletion, RM	-Poducod Matrix MS		od Sand (	Proinc	<sup>2</sup> Location: PL=Pore Lining, M=Matrix.
Hydric Soil Indicators:	=Reduced Matrix, Mc	=ivia5K	eu Sanu (	Jiailis.	Indicators for Problematic Hydric Soils <sup>3</sup> :
Histosol (A1)	Polyvalue Belov	v Surfac	e (S8) ( <b>L</b>	RR R.	2 cm Muck (A10) (LRR K, L, MLRA 149B)
Histic Epipedon (A2)	MLRA 149B)		() (_	,	Coast Prairie Redox (A16) (LRR K, L, R)
Black Histic (A3)	Thin Dark Surfa		(LRR R,	MLRA 1	
Hydrogen Sulfide (A4)	High Chroma S	ands (S	11) (LRR	K, L)	Polyvalue Below Surface (S8) (LRR K, L)
Stratified Layers (A5)	Loamy Mucky N	lineral (	F1) ( <b>LRR</b>	K, L)	Thin Dark Surface (S9) (LRR K, L)
Depleted Below Dark Surface (A11)	Loamy Gleyed I	Matrix (F	-2)		Iron-Manganese Masses (F12) (LRR K, L, R)
Thick Dark Surface (A12)	Depleted Matrix	(F3)			Piedmont Floodplain Soils (F19) (MLRA 149B)
Sandy Mucky Mineral (S1)	Redox Dark Sur	rface (F	6)		Mesic Spodic (TA6) ( <b>MLRA 144A, 145, 149B</b> )
Sandy Gleyed Matrix (S4)	Depleted Dark S	Surface	(F7)		Red Parent Material (F21)
Sandy Redox (S5)	Redox Depress		3)		Very Shallow Dark Surface (F22)
Stripped Matrix (S6)	Marl (F10) ( <b>LRF</b>	R K, L)			Other (Explain in Remarks)
Dark Surface (S7)					
3					
<sup>3</sup> Indicators of hydrophytic vegetation and we	etland hydrology mus	t be pre	sent, unle	ess distui	rbed or problematic.
Restrictive Layer (if observed):  Type: Gravel/Fill					
Depth (inches): 6					Hydric Soil Present? Yes No X
Remarks:					



**Upland CZZZ-4 View facing south** 



**Upland CZZZ-4 Soils** 

Segment 3 - Package 2

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

Project/Site: CHPE	City/County: Fort Ann / Washington Sampling Date: 11/17/21				
Applicant/Owner: TDI	State: NY Sampling Point: WET CAZ-3				
Investigator(s): C. Scrivner, C. Einstein	Section, Township, Range:				
	relief (concave, convex, none): Concave Slope %: 1				
Subregion (LRR or MLRA): LRR R Lat: 43-26-32.72N	Long: 73-26-49.86W Datum: WGS 84				
Soil Map Unit Name: SB - Saprists, Aquepts, and Aquents	NWI classification: PFO1				
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes X No (If no, explain in Remarks.)				
Are Vegetation, Soil, or Hydrology significantly disturb	<del></del>				
Are Vegetation, Soil, or Hydrologynaturally problema	atic? (If needed, explain any answers in Remarks.)				
SUMMARY OF FINDINGS – Attach site map showing same	npling point locations, transects, important features, etc.				
Hydrophytic Vegetation Present? Yes X No	Is the Sampled Area				
Hydric Soil Present?  Yes X No	within a Wetland? Yes X No				
Wetland Hydrology Present? Yes X No	If yes, optional Wetland Site ID: Near Flag CAZ-3				
Remarks: (Explain alternative procedures here or in a separate report.) Palustrine Forested Wetland. Edinger classification: Floodplain Forest.					
HYDROLOGY					
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)				
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)				
Surface Water (A1) Water-Stained Leaves (E	B9) Drainage Patterns (B10)				
High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)				
X Saturation (A3) Marl Deposits (B15)	Dry-Season Water Table (C2)				
Water Marks (B1) Hydrogen Sulfide Odor (	C1) Crayfish Burrows (C8)				
Sediment Deposits (B2)  Oxidized Rhizospheres of	on Living Roots (C3) Saturation Visible on Aerial Imagery (C9)				
Drift Deposits (B3) Presence of Reduced Iro	ron (C4) Stunted or Stressed Plants (D1)				
Algal Mat or Crust (B4) Recent Iron Reduction in	n Tilled Soils (C6) X Geomorphic Position (D2)				
Iron Deposits (B5) Thin Muck Surface (C7)	Shallow Aquitard (D3)				
Inundation Visible on Aerial Imagery (B7) X Other (Explain in Remark	Microtopographic Relief (D4)				
Sparsely Vegetated Concave Surface (B8)	X FAC-Neutral Test (D5)				
Field Observations:					
Surface Water Present? Yes No _X Depth (inches):					
Water Table Present? Yes No _X Depth (inches):					
Saturation Present? Yes X No Depth (inches):					
(includes capillary fringe)					
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre-	vious inspections), if available:				
Remarks: Floodplain of the Champlain Canal.					

roo Stratum (Plot cizo: 20' )	Absolute % Cover	Dominant Species?	Indicator	Dominance Test workshoot		
ree Stratum (Plot size: 30' )	% Cover	Species?	Status	Dominance Test worksheet:		
Fraxinus pennsylvanica	75	Yes	FACW	Number of Dominant Species		
. Ulmus americana	10	No No	FACW	That Are OBL, FACW, or FAC: 4 (A)		
. Rhamnus cathartica	5	No	FAC	Total Number of Dominant		
·				Species Across All Strata: 7 (B)		
·				Percent of Dominant Species		
·				That Are OBL, FACW, or FAC: 57.1% (A/B Prevalence Index worksheet:		
·	90	=Total Cover				
apling/Shrub Stratum (Plot size: 15' )	90	= Total Cover		Total % Cover of: Multiply by:  OBL species 0 x 1 = 0		
. Lonicera morrowii	25	Yes	FACU	FACW species 122 x 2 = 244		
		-		· <del></del>		
Cornus amomum	10	Yes	FACW	FAC species 25 x 3 = 75		
. Viburnum lentago	10	Yes	FAC	FACU species 51 x 4 = 204		
Rhamnus cathartica	5	<u>No</u>	FAC	UPL species0 x 5 =0		
. Fraxinus pennsylvanica	5	No	FACW	Column Totals: 198 (A) 523 (B		
Zanthoxylum americanum	5	<u>No</u>	FACU	Prevalence Index = B/A = 2.64		
. Cornus sericea	2	No	FACW	Hydrophytic Vegetation Indicators:		
	62	_=Total Cover		1 - Rapid Test for Hydrophytic Vegetation		
lerb Stratum (Plot size:)				X 2 - Dominance Test is >50%		
. Onoclea sensibilis	10	Yes	FACW	X 3 - Prevalence Index is ≤3.0 <sup>1</sup>		
. Solidago canadensis	10	Yes	FACU	4 - Morphological Adaptations <sup>1</sup> (Provide suppo		
Symphyotrichum ericoides	8	Yes	FACU	data in Remarks or on a separate sheet)		
Equisetum arvense	5	No	FAC	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)		
. Solidago gigantea	5	No	FACW	<sup>1</sup> Indicators of hydric soil and wetland hydrology must b		
. Lysimachia nummularia	5	No	FACW	present, unless disturbed or problematic.		
				Definitions of Vegetation Strata:		
3.				Tree – Woody plants 3 in. (7.6 cm) or more in diamete		
				at breast height (DBH), regardless of height.		
0				Sapling/shrub – Woody plants less than 3 in. DBH		
1.				and greater than or equal to 3.28 ft (1 m) tall.		
2.				Harb All barbassays (non-yearth) plants, regardless		
	43	=Total Cover		Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.		
Voody Vine Stratum (Plot size: 30' )		-				
. Vitis aestivalis	3	No	FACU	<b>Woody vines</b> – All woody vines greater than 3.28 ft in height.		
<u></u>						
 3.	-			Hydrophytic		
I.				Vegetation Present? Yes X No		
··	3	=Total Cover		135 <u>A</u> 135		
	<u> </u>	= Total Cover				

SOIL Sampling Point: WET CAZ-3

Depth	Matrix	o me dep		x Featur			nfirm the absence of inc	uicaiUi 5. <i>j</i>	
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks	
0-9	10YR 3/1	100					Sandy		
9-20	10YR 5/1	60	10YR 4/6	40	С	М	Sandy	Prominent redox concentrations	
	oncentration, D=Deple	etion, RM=	=Reduced Matrix, M	IS=Mask	ed Sand	Grains.		Pore Lining, M=Matrix.	
Hydric Soil I								Problematic Hydric Soils <sup>3</sup> :	
Histosol	,		Polyvalue Belo		ce (S8) ( <b>I</b>	LRR R,		(A10) (LRR K, L, MLRA 149B)	
Black His	oipedon (A2)		MLRA 149B Thin Dark Surf	,	(IRRR	MIRA 1		rie Redox (A16) ( <b>LRR K, L, R</b> ) y Peat or Peat (S3) ( <b>LRR K, L, R</b> )	
	n Sulfide (A4)		High Chroma S					Below Surface (S8) (LRR K, L)	
	Layers (A5)		Loamy Mucky				Thin Dark Surface (S9) (LRR K, L)		
Depleted	Below Dark Surface	(A11)	Loamy Gleyed	Matrix (F	=2)		Iron-Manga	anese Masses (F12) (LRR K, L, R)	
Thick Da	ırk Surface (A12)		Depleted Matri	ix (F3)			Piedmont F	Floodplain Soils (F19) (MLRA 149B)	
	lucky Mineral (S1)		Redox Dark St					dic (TA6) ( <b>MLRA 144A, 145, 149B</b> )	
	leyed Matrix (S4)		Depleted Dark		` '			t Material (F21)	
	edox (S5) Matrix (S6)		Redox Depres Marl (F10) (LR		3)			ow Dark Surface (F22) lain in Remarks)	
X Dark Sur			Wall (i 10) ( <b>Liv</b>	ιι ι <b>ι</b> , <b>∟</b> )			Other (Exp	iaiii iii Nemarks)	
X Bank Gan	1400 (07)								
<sup>3</sup> Indicators of	hydrophytic vegetation	on and we	etland hydrology mu	ıst be pre	sent, unl	less distu	rbed or problematic.		
Restrictive L	ayer (if observed):								
Type:									
Depth (ir	nches):						Hydric Soil Present?	Yes X No	
Remarks:									



Wetland CAZ-3 View facing northeast



Wetland CAZ-3 Soils

Segment 3 - Package 2

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

Project/Site: CHPE	City/County: Fort Ann / Washington Sampling Date: 11/17/21				
Applicant/Owner: TDI	State: NY Sampling Point: UPL CAZ-3				
Investigator(s): C. Scrivner, C. Einstein	Section, Township, Range:				
Landform (hillside, terrace, etc.): Hillslope Local	relief (concave, convex, none): Convex Slope %: 2				
Subregion (LRR or MLRA): LRR R Lat: 43-26-32.80N	Long: 73-26-50.22W Datum: WGS 84				
Soil Map Unit Name: SB - Saprists, Aquepts, and Aquents	NWI classification: NA				
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes X No (If no, explain in Remarks.)				
Are Vegetation, Soil, or Hydrology significantly disturt	`				
Are Vegetation, Soil, or Hydrology naturally problema					
SUMMARY OF FINDINGS – Attach site map showing sam	npling point locations, transects, important features, etc.				
Hydrophytic Vegetation Present? Yes X No	Is the Sampled Area				
Hydric Soil Present?  Yes No X	within a Wetland? Yes No_X_				
Wetland Hydrology Present? Yes No X	If yes, optional Wetland Site ID:				
Remarks: (Explain alternative procedures here or in a separate report.)  Mowed roadside.					
HYDROLOGY					
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)				
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)				
Surface Water (A1) Water-Stained Leaves (B	B9) Drainage Patterns (B10)				
High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)				
Saturation (A3) Marl Deposits (B15)	Dry-Season Water Table (C2)				
Water Marks (B1) Hydrogen Sulfide Odor (	Crayfish Burrows (C8)				
Sediment Deposits (B2) Oxidized Rhizospheres of	ving Roots (C3) Saturation Visible on Aerial Imagery (C9)				
Drift Deposits (B3) Presence of Reduced Iro	· , , , , , , , , , , , , , , , , , , ,				
Algal Mat or Crust (B4) Recent Iron Reduction in	<u> </u>				
Iron Deposits (B5) — Thin Muck Surface (C7)	Shallow Aquitard (D3)				
Inundation Visible on Aerial Imagery (B7)Other (Explain in Remark					
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)				
Field Observations:					
Surface Water Present? Yes No X Depth (inches):	: <u></u> _				
Water Table Present? Yes No X Depth (inches):	: <u></u>				
Saturation Present? Yes No _X Depth (inches):	: Wetland Hydrology Present? Yes No _X_				
(includes capillary fringe)					
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	evious inspections), if available:				
Remarks:					

	ants.	Dominant	Indicator	Sampling Point: UPL CAZ-3
ree Stratum (Plot size: 30' )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
				Number of Dominant Species
·				That Are OBL, FACW, or FAC:1 (A)
				Tatal Number of Description
				Total Number of Dominant Species Across All Strata: 1 (B)
				(
				Percent of Dominant Species  That Are ORL FACING or FACING 400 000 (A/R)
·				That Are OBL, FACW, or FAC: 100.0% (A/E)  Prevalence Index worksheet:
		=Total Cover		Total % Cover of: Multiply by:
apling/Shrub Stratum (Plot size: 15' )				OBL species 0 x 1 = 0
				FACW species 0 x 2 = 0
				FAC species 85 x 3 = 255
				FACU species 5 x 4 = 20
				UPL species 10 x 5 = 50
				Column Totals: 100 (A) 325 (E
				Prevalence Index = B/A = 3.25
				Hydrophytic Vegetation Indicators:
		=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
erb Stratum (Plot size:5')				X 2 - Dominance Test is >50%
Setaria pumila	85	Yes	FAC	3 - Prevalence Index is ≤3.0 <sup>1</sup>
Pastinaca sativa	10	No	UPL	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
Taraxacum officinale	5	No	FACU	data in Remarks or on a separate sheet)
				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
				1 and a second of boundary and considered boundary and a second
				<sup>1</sup> Indicators of hydric soil and wetland hydrology must present, unless disturbed or problematic.
·				Definitions of Vegetation Strata:
				Tree – Woody plants 3 in. (7.6 cm) or more in diamet
				at breast height (DBH), regardless of height.
0				Sapling/shrub – Woody plants less than 3 in. DBH
1.				and greater than or equal to 3.28 ft (1 m) tall.
2.				
	100	=Total Cover		Herb – All herbaceous (non-woody) plants, regardles of size, and woody plants less than 3.28 ft tall.
/oody Vine Stratum (Plot size: 30' )	100	-10tal 0010l		
				<b>Woody vines</b> – All woody vines greater than 3.28 ft in height.
				neight.
				Hydrophytic
				1
				Vegetation
				Vegetation           Present?         Yes X No

SOIL Sampling Point: UPL CAZ-3

		o the dep				or or co	nfirm the absence of indicat	ors.)
Depth	Matrix		i e	x Featur		. 2		
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-7	10YR 3/2	100					Loamy/Clayey	_
7-15	10YR 3/3	100					Sandy	
1- 0.0							21 (1 0)	
Hydric Soil In	ncentration, D=Deple	etion, RM	=Reduced Matrix, M	S=Mask	ed Sand (	Grains.	<sup>2</sup> Location: PL=Pore	Lining, M=Matrix.  Ilematic Hydric Soils <sup>3</sup> :
Histosol (			Polyvalue Belo	w Surfac	n) (82) a	RR R		)) (LRR K, L, MLRA 149B)
	pedon (A2)		MLRA 149B		Je (30) ( <b>L</b>	.ixix ix,		edox (A16) ( <b>LRR K, L, R</b> )
Black His			Thin Dark Surfa	,	(LRR R.	MLRA 1		at or Peat (S3) (LRR K, L, R)
	n Sulfide (A4)		High Chroma S					v Surface (S8) (LRR K, L)
	Layers (A5)		Loamy Mucky N					ce (S9) (LRR K, L)
	Below Dark Surface	(A11)	Loamy Gleyed			,		e Masses (F12) (LRR K, L, R)
	rk Surface (A12)	. ,	Depleted Matrix	x (F3)	·		Piedmont Flood	plain Soils (F19) (MLRA 149B)
	ucky Mineral (S1)		Redox Dark Su	ırface (F	6)			A6) (MLRA 144A, 145, 149B)
	eyed Matrix (S4)		Depleted Dark	Surface	(F7)		Red Parent Mat	
Sandy Re			Redox Depress				Very Shallow Da	ark Surface (F22)
	Matrix (S6)		Marl (F10) ( <b>LR</b>				Other (Explain i	
Dark Surf							<del></del>	
<sup>3</sup> Indicators of	hydrophytic vegetation	on and we	atland hydrology mus	et he nre	sent unla	ace dietu	rhed or problematic	
	ayer (if observed):	on and we	zilaria riyarology mad	st be pre	Joont, and	Joo diotal	problematic.	
Type:	Grav	el						
Depth (in	ches):	15					Hydric Soil Present?	Yes No _X
Remarks:								



**Upland CAZ-3 View facing south** 



**Upland CAZ-3 Soils** 

Segment 3 - Package 2

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

Project/Site: CHPE	City/County: Fort Ann / Washington Sampling Date: 11/17/21				
Applicant/Owner: TDI	State: NY Sampling Point: WET CBZ-5				
Investigator(s): C. Scrivner, C. Einstein	Section, Township, Range:				
Landform (hillside, terrace, etc.): Depression Local	relief (concave, convex, none): Concave Slope %: 2				
Subregion (LRR or MLRA): LRR R Lat: 43-26-27.32N	Long: 73-26-52.69W Datum: WGS 84				
Soil Map Unit Name: SB - Saprists, Aquepts, and Aquents	NWI classification: PEM1				
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes X No (If no, explain in Remarks.)				
Are Vegetation, Soil, or Hydrologysignificantly disturb					
Are Vegetation, Soil, or Hydrologynaturally problems	atic? (If needed, explain any answers in Remarks.)				
SUMMARY OF FINDINGS – Attach site map showing same	npling point locations, transects, important features, etc.				
Hydrophytic Vegetation Present? Yes X No	Is the Sampled Area				
Hydric Soil Present?  Yes X No	within a Wetland? Yes X No				
Wetland Hydrology Present? Yes X No	If yes, optional Wetland Site ID: Near Flag CBZ-5				
Palustrine Emergent Marsh. Edinger classification: Shallow Emergent Mars	şh.				
HYDROLOGY					
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)				
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)				
X Surface Water (A1) Water-Stained Leaves (I	B9) Drainage Patterns (B10)				
X High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)				
X Saturation (A3) Marl Deposits (B15)	Dry-Season Water Table (C2)				
Water Marks (B1) Hydrogen Sulfide Odor (					
Sediment Deposits (B2) Oxidized Rhizospheres					
Presence of Reduced Iro					
Algal Mat or Crust (B4) Recent Iron Reduction ir					
Iron Deposits (B5) — Thin Muck Surface (C7)	<del></del>				
X Inundation Visible on Aerial Imagery (B7) Other (Explain in Remar					
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)				
Field Observations:					
Surface Water Present? Yes X No Depth (inches):	<u>2</u>				
Water Table Present? Yes X No Depth (inches):					
Saturation Present? Yes X No Depth (inches):	:6 Wetland Hydrology Present? YesX No				
(includes capillary fringe)					
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	vious inspections), if available:				
Remarks:					

Tree Stratum (Plot size: 30' )	Absolute % Cover	Dominant Species?	Indicator	Dominance Test worksheet:			
			Status	Dominance Test worksheet:			
Fraxinus pennsylvanica	5	Yes	FACW	Number of Dominant Species			
2.				That Are OBL, FACW, or FAC: 2 (A)			
3.		· ——		Total Number of Dominant			
4.				Species Across All Strata: 5 (B)			
5.				Percent of Dominant Species			
6.				That Are OBL, FACW, or FAC: 40.0% (A/B)			
7				Prevalence Index worksheet:			
	5	=Total Cover		Total % Cover of: Multiply by:			
Sapling/Shrub Stratum (Plot size:15')				OBL species18 x 1 =18			
1.				FACW species 27 x 2 = 54			
2				FAC species 5 x 3 = 15			
3.				FACU species 55 x 4 = 220			
4.				UPL species 0 x 5 = 0			
5.				Column Totals: 105 (A) 307 (B)			
6				Prevalence Index = B/A = 2.92			
7.				Hydrophytic Vegetation Indicators:			
		=Total Cover		1 - Rapid Test for Hydrophytic Vegetation			
Herb Stratum (Plot size: 5' )		-		2 - Dominance Test is >50%			
1. Poa pratensis	25	Yes	FACU	X 3 - Prevalence Index is ≤3.0 <sup>1</sup>			
2. Solidago canadensis	15	Yes	FACU	4 - Morphological Adaptations <sup>1</sup> (Provide supporting			
3. Symphyotrichum ericoides	15	Yes	FACU	data in Remarks or on a separate sheet)			
4. Elymus riparius	15	Yes	FACW	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)			
5. Lythrum salicaria	10	No	OBL	Indicators of hydric call and watland hydrology must be			
6. Carex stricta	8	No	OBL	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.			
7. Onoclea sensibilis	5	No	FACW	Definitions of Vegetation Strata:			
8. Euthamia graminifolia	5	No	FAC	Tree – Woody plants 3 in. (7.6 cm) or more in diameter			
9. Cyperus esculentus	2	No	FACW	at breast height (DBH), regardless of height.			
10.				Sapling/shrub – Woody plants less than 3 in. DBH			
11				and greater than or equal to 3.28 ft (1 m) tall.			
12				<b>Herb</b> – All herbaceous (non-woody) plants, regardless			
	100	=Total Cover		of size, and woody plants less than 3.28 ft tall.			
Woody Vine Stratum (Plot size: 30')				Woody vines – All woody vines greater than 3.28 ft in			
1.				height.			
2.							
3.				Hydrophytic			
1				Vegetation Present? Yes X No			
4.		=Total Cover					
Remarks: (Include photo numbers here or on a separa	oto oboot \	-1010100701					
remarks. (include prioto numbers here of our a separa	ate sneet.)						

Sampling Point: WET CBZ-5

**SOIL** Sampling Point: WET CBZ-5

	•	o the dep				or or co	nfirm the absence of ind	licators.)		
Depth	Matrix			x Featur		. 2	<b>-</b> .	5		
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks		
0-6	10YR 2/1	100					Loamy/Clayey			
6-20	10YR 5/1	70	10YR 4/4	30	С	M	Sandy	Distinct redox concentrations		
								_		
1			D. L. IMAGE M		10		21	David Mark		
Hydric Soil	oncentration, D=Deple	etion, RIVI	=Reduced Matrix, M	S=IVIask	ed Sand	Grains.		Pore Lining, M=Matrix.  Problematic Hydric Soils <sup>3</sup> :		
Histosol			Polyvalue Belo	w Surfac	e (S8) (I	RRR		(A10) (LRR K, L, MLRA 149B)		
	pipedon (A2)		MLRA 149B		)C (OO) (E			ie Redox (A16) ( <b>LRR K, L, R</b> )		
Black Hi			Thin Dark Surfa		(LRR R,	MLRA 1		Peat or Peat (S3) (LRR K, L, R)		
	n Sulfide (A4)		High Chroma S				Polyvalue Below Surface (S8) (LRR K, L)			
Stratified	l Layers (A5)		Loamy Mucky I	Mineral (	F1) ( <b>LRF</b>	R K, L)	Thin Dark Surface (S9) (LRR K, L)			
Depleted	d Below Dark Surface	(A11)	Loamy Gleyed	Matrix (F	-2)		Iron-Manganese Masses (F12) (LRR K, L, R)			
Thick Da	ark Surface (A12)		Depleted Matrix	k (F3)			Piedmont Floodplain Soils (F19) (MLRA 149B)			
	lucky Mineral (S1)		Redox Dark Su				Mesic Spodic (TA6) ( <b>MLRA 144A, 145, 149B</b> )			
	leyed Matrix (S4)		Depleted Dark				Red Parent Material (F21)			
X Sandy R			Redox Depress		3)		Very Shallow Dark Surface (F22) Other (Explain in Remarks)			
·	Matrix (S6)		Marl (F10) ( <b>LR</b>	K N, L)			Other (Explain in Remarks)			
Dark Su	rface (S7)									
<sup>3</sup> Indicators of	f hydrophytic vegetati	on and w	etland hydrology mus	st be pre	sent unl	ess distu	rbed or problematic.			
	_ayer (if observed):	o aa	onana nyarology mad	ж оо р.с		oco diota	The state of the s			
Type:	,									
Depth (in	nches):						Hydric Soil Present?	Yes X No		
Remarks:	<u> </u>		<u> </u>							
İ										



Wetland CBZ-5 View facing west



Wetland CBZ-5 Soils

Segment 3 - Package 2

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

Project/Site: CHPE	City/County: Fort Ann / Washington Sampling Date: 11/17/21
Applicant/Owner: TDI	State: NY Sampling Point: WET CBZ-7
Investigator(s): C. Scrivner, C. Einstein	Section, Township, Range:
	relief (concave, convex, none): Concave Slope %: 2
Subregion (LRR or MLRA): LRR R Lat: 43-26-25.51N	Long: 73-26-53.84W Datum: WGS 84
Soil Map Unit Name: SB - Saprists, Aquepts, and Aquents	NWI classification: PFO1
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes X No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly disturb	
Are Vegetation, Soil, or Hydrologynaturally problema	atic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing same	pling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes X No	Is the Sampled Area
Hydric Soil Present? Yes X No	within a Wetland? Yes X No
Wetland Hydrology Present? Yes X No	If yes, optional Wetland Site ID: Near Flag CBZ-7
Palustrine Forested Wetland. Edinger classification: Red-maple Hardwood	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) X Water-Stained Leaves (E	B9) X Drainage Patterns (B10)
X High Water Table (A2) Aquatic Fauna (B13)	X Moss Trim Lines (B16)
X Saturation (A3) Marl Deposits (B15)	Dry-Season Water Table (C2)
Water Marks (B1) Hydrogen Sulfide Odor (	C1) Crayfish Burrows (C8)
Sediment Deposits (B2) Oxidized Rhizospheres of	on Living Roots (C3) Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B3) Presence of Reduced Iro	on (C4) Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4) Recent Iron Reduction in	n Tilled Soils (C6) X Geomorphic Position (D2)
Iron Deposits (B5) Thin Muck Surface (C7)	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remark	ks) Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8)	X FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No _X Depth (inches):	
Water Table Present? Yes X No Depth (inches):	
Saturation Present? Yes X No Depth (inches):	0 Wetland Hydrology Present? Yes X No
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre-	vious inspections), if available:
Remarks:	

Tree Stratum (District 20)	Absolute	Dominant	Indicator	Deminance Test weeksheet.
Tree Stratum (Plot size: 30' )  1. Fraxinus pennsylvanica	% Cover 70	Species? Yes	Status FACW	Dominance Test worksheet:
Ulmus americana	15	No	FACW	Number of Dominant Species That Are OBL, FACW, or FAC: 5 (A)
3. Alnus incana	10	No	FACW	That Are OBE, I AGW, OF AG.
4.	10	110	TACV	Total Number of Dominant Species Across All Strata: 6 (B)
5.				Percent of Dominant Species
6.				That Are OBL, FACW, or FAC: 83.3% (A/B)
7				Prevalence Index worksheet:
	95	=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15' )				OBL species10 x 1 =10
1. Cornus amomum	25	Yes	FACW	FACW species 145 x 2 = 290
2. Lonicera morrowii	20	Yes	FACU	FAC species 7 x 3 = 21
3. Alnus incana	10	<u>No</u>	FACW	FACU species 22 x 4 = 88
4. Cornus sericea	5	<u>No</u>	FACW	UPL species 0 x 5 = 0
5. Salix alba	5	<u>No</u>	FACW	Column Totals: 184 (A) 409 (B)
6. Zanthoxylum americanum	2	<u>No</u>	FACU	Prevalence Index = B/A =
7. Rhamnus cathartica	2	No	FAC	Hydrophytic Vegetation Indicators:
	69	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5' )				X 2 - Dominance Test is >50%
1. Carex stricta	10	Yes	OBL	X 3 - Prevalence Index is ≤3.0 <sup>1</sup>
2. Solidago gigantea	5	Yes	FACW	4 - Morphological Adaptations (Provide supporting
3. Rhamnus cathartica	5	Yes	FAC	data in Remarks or on a separate sheet)
4.				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5 6.		·		<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
7.				Definitions of Vegetation Strata:
8.				
9.				<b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
10.				Sapling/shrub – Woody plants less than 3 in. DBH
11				and greater than or equal to 3.28 ft (1 m) tall.
12.				Herb – All herbaceous (non-woody) plants, regardless
	20	=Total Cover		of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size: 30')				Woody vines – All woody vines greater than 3.28 ft in
1				height.
2.				
3.				Hydrophytic Vegetation
4.				Present? Yes X No No
		=Total Cover		
Remarks: (Include photo numbers here or on a separa	ate sheet.)			

Sampling Point: WET CBZ-7

SOIL Sampling Point: WET CBZ-7

	cription: (Describe to	o the dep				or or co	nfirm the absence of ir	ndicators.)	
Depth	Matrix			x Feature					
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks	
0-4	10YR 2/1	100					Loamy/Clayey		
4-8	10YR 4/1	90	10YR 3/6	10	С	M	Loamy/Clayey	Prominent redox concentrations	
8-20	10YR 5/1	80	10YR 4/6	20	С	M	Loamy/Clayey	Prominent redox concentrations	
								_	
	oncentration, D=Deple	etion, RM	=Reduced Matrix, MS	S=Maske	ed Sand	Grains.		=Pore Lining, M=Matrix.	
Hydric Soil								r Problematic Hydric Soils <sup>3</sup> :	
Histosol			Polyvalue Belov		e (S8) ( <b>L</b>	.RR R,		k (A10) (LRR K, L, MLRA 149B)	
Black Hi	oipedon (A2)		MLRA 149B) Thin Dark Surfa		(I RR R	MIRA 1		airie Redox (A16) ( <b>LRR K, L, R</b> ) ky Peat or Peat (S3) ( <b>LRR K, L, R</b> )	
	n Sulfide (A4)		High Chroma S					Below Surface (S8) (LRR K, L)	
	Layers (A5)		Loamy Mucky N					Surface (S9) (LRR K, L)	
	Below Dark Surface	(A11)	Loamy Gleyed					ganese Masses (F12) (LRR K, L, R)	
Thick Da	ark Surface (A12)		X Depleted Matrix	(F3)			Piedmont Floodplain Soils (F19) (MLRA 149B)		
	lucky Mineral (S1)		Redox Dark Su				Mesic Spodic (TA6) ( <b>MLRA 144A, 145, 149B</b> )		
	ileyed Matrix (S4)		Depleted Dark				Red Parent Material (F21)		
	edox (S5) Matrix (S6)		Redox Depress Marl (F10) (LRI		3)			low Dark Surface (F22)	
	rface (S7)		Wan (i 10) (ER	<b>( ( ( , ∟</b> )			Other (Explain in Remarks)		
Bank ou	11400 (07)								
<sup>3</sup> Indicators of	f hydrophytic vegetation	on and w	etland hydrology mus	st be pre	sent, unl	ess distu	rbed or problematic.		
Restrictive I	_ayer (if observed):								
Type:									
Depth (in	nches):						Hydric Soil Present	? Yes X No	
Remarks:									



Wetland CBZ-7 View facing southwest



Wetland CBZ-7 Soils

Segment 3 - Package 2

**SITE PHOTOGRAPHS** 

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

Project/Site: CHPE	City/County: Fort Ann / Washington Sampling Date: 11/17/21				
Applicant/Owner: TDI	State: NY Sampling Point: UPL				
Investigator(s): C. Scrivner, C. Einstein	Section, Township, Range:				
	relief (concave, convex, none): Convex Slope %: 2				
Subregion (LRR or MLRA): LRR R Lat: 43-26-26.78N	Long: 73-26-52,53W Datum: WGS 84				
Soil Map Unit Name: SB - Saprists, Aquepts, and Aquents	NWI classification: NA				
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes X No (If no, explain in Remarks.)				
Are Vegetation, Soil, or Hydrology significantly distur	<del></del>				
Are Vegetation , Soil , or Hydrology naturally problems					
SUMMARY OF FINDINGS – Attach site map showing sam	pling point locations, transects, important features, etc.				
Hydrophytic Vegetation Present? Yes No X	Is the Sampled Area				
Hydric Soil Present? Yes No X	within a Wetland? Yes No X				
Wetland Hydrology Present? Yes No X	If yes, optional Wetland Site ID:				
Mowed roadside. Upland for CBZ-5 and CBZ-7.					
HYDROLOGY					
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)				
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)				
Surface Water (A1) Water-Stained Leaves (	B9) Drainage Patterns (B10)				
High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)				
Saturation (A3) — Marl Deposits (B15)	Dry-Season Water Table (C2)				
Water Marks (B1) Hydrogen Sulfide Odor (					
Sediment Deposits (B2)  Oxidized Rhizospheres					
Drift Deposits (B3) Presence of Reduced In					
Algal Mat or Crust (B4)  Recent Iron Reduction in					
Iron Deposits (B5) — Thin Muck Surface (C7)	Shallow Aquitard (D3)				
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remar					
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)				
Field Observations:					
Surface Water Present? Yes No _X Depth (inches)					
Water Table Present? Yes No X Depth (inches)					
Saturation Present? Yes No _X Depth (inches)	:   Wetland Hydrology Present? Yes No _X_				
(includes capillary fringe)					
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	evious inspections), if available:				
Remarks:					

Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
70 0010.			
			Number of Dominant Species That Are OBL, FACW, or FAC:1(A
			Total Number of Dominant
			Species Across All Strata: 2 (B)
	<del></del>		Percent of Dominant Species That Are OBL, FACW, or FAC: 50.0% (A)
			Prevalence Index worksheet:
	=Total Cover		Total % Cover of: Multiply by:
	•		OBL species 0 x 1 = 0
			FACW species 0 x 2 = 0
			FAC species 25 x 3 = 75
			FACU species 50 x 4 = 200
			UPL species 25 x 5 = 125
			Column Totals: 100 (A) 400
			Prevalence Index = B/A = 4.00
			Hydrophytic Vegetation Indicators:
	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
			2 - Dominance Test is >50%
40	Yes	FACU	3 - Prevalence Index is ≤3.0 <sup>1</sup>
25	Yes	FAC	4 - Morphological Adaptations <sup>1</sup> (Provide suppor
15	No	UPL	data in Remarks or on a separate sheet)
10	No	FACU	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
10	No	UPL	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
			Definitions of Vegetation Strata:
			Tree – Woody plants 3 in. (7.6 cm) or more in
			diameter at breast height (DBH), regardless of heig
	·		Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
			Herb – All herbaceous (non-woody) plants, regardle
100	=Total Cover		of size, and woody plants less than 3.28 ft tall.
			Woody vines – All woody vines greater than 3.28 f height.
			Hydrophytic
			Vegetation Present? Yes No X
	40 25 15 10 100	=Total Cover  =Total Cover  40	=Total Cover  =Total Cover  =Total Cover  40

SOIL Sampling Point UPL

	(inches)	Matrix			Featur		. 2	<b>-</b> .	=	
*Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. *Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: Indicators: Indicators for Problematic Hydric Soils*: 2 cm Muck (A10) (LRR K, L, MLRA 1498) (LRR K, L) (LRR K, L) (LRA 1498) (Cast Prairie Redox (A16) (LRR K, L, R) (LR K, L) (		Color (moist)	<u> </u>	Color (moist)		Type'	Loc <sup>2</sup>	Texture	Rem	arks
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.  # Hydric Soil Indicators:  Histosol (A1)  Histic Epideon (A2)  Black Histic (A3)  Thin Dark Surface (S9) (LRR R, MLRA 149B)  Black Histic (A3)  High Chroma Sands (S11) (LRR K, L)  Stratified Layers (A5)  Depleted Below Dark Surface (A11)  Loamy Mucky Mineral (F1) (LRR K, L)  Thin Dark Surface (A11)  Loamy Gleyed Matrix (F2)  Sandy Mucky Mineral (S1)  Sandy Gleyed Matrix (S4)  Sandy Mucky Mineral (S1)  Sandy Gleyed Matrix (S4)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Redox Dark Surface (F7)  Red Parent Material (F21)  Sandy Redox (S5)  Redox Depressions (F8)  Wery Shallow Dark Surface (F22)  Dark Surface (S7)  Are Parent Material (F21)  Sandy Redox (S5)  Are Parent Material (F21)  Are Parent Material (F21)  Sandy Redox (S5)  Are Parent Material (F21)  Are Parent Material (F21)  Sandy Redox (S5)  Are Parent Material (F21)  Are Parent Material (F2	0-7	10YR 2/1	100					Loamy/Clayey		
Hydric 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) High Chroma Sands (S11) (LRR K, L) Stratified Layers (A5) Depleted Below Dark Surface (A11) Depleted Below Dark Surface (A11) Depleted Below Dark Surface (A11) Depleted Below Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Depleted Dark Surface (F6) Sandy Gleyed Matrix (S4) Stripped Matrix (S6) Marl (F10) (LRR K, L) Depleted Dark Surface (F22) Stripped Matrix (S6) Dark Surface (S7)  Marl (F10) (LRR K, L)  Marl (F10) (LRR K, L)  Medicators for Problematic Hydric Soils :  1 2 cm Muck (A10) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Coast Prairie Redox (A16) (LRR K, L) Coast Prairie Redox (A16) (LRR K, L) Coast Prairie Redox (A16) (LRR K, L) Coast Prairie Redox (A16) Coast Prairie Redox	7-13	10YR 2/2	100					Sandy		
Hydric 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) Loamy Mucky Mineral (F1) (LRR K, L) Thick Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Redox Dark Surface (F7) Sandy Redox (S5) Stripped Matrix (S6) Marl (F10) (LRR K, L) Depleted Dark Surface (F22) Stripped Matrix (S6) Dark Surface (S7)  And Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.  Hidicators 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) Coast Prai										
Hydric 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)  Thick Dark Surface (A12)  Depleted Matrix (F3)  Sandy Mucky Mineral (S1)  Sandy Gleyed Matrix (S4)  Sandy Gleyed Matrix (S4)  Depleted Dark Surface (F7)  Sandy Redox (S5)  Redox Depressions (F8)  Stripped Matrix (S6)  Dark Surface (S7)  Arrive Care  Marl (F10) (LRR K, L)  Depleted Dark Surface (F22)  Stripped Matrix (S6)  Dark Surface (S7)  Arrive Care  Marl (F10) (LRR K, L)  Hydric Soil Present?  Hydric Soil Present?  Hydric Soil Present?  Yes No X										
Hydric 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) Loamy Mucky Mineral (F1) (LRR K, L) Thick Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Redox Dark Surface (F7) Sandy Redox (S5) Stripped Matrix (S6) Marl (F10) (LRR K, L) Depleted Dark Surface (F22) Stripped Matrix (S6) Dark Surface (S7)  And Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.  Hidicators 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) Coast Prai										
Hydric 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)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1)  Sandy Mucky Mineral (S1)  Sandy Gleyed Matrix (S4)  Depleted Dark Surface (F6)  Sandy Redox (S5)  Redox Depressions (F8)  Stripped Matrix (S6)  Dark Surface (S7)  Marl (F10) (LRR K, L)  Depleted Dark Surface (F22)  Stripped Matrix (S6)  Dark Surface (S7)  Marl (F10) (LRR K, L)  Hydric Soil Present?  Hydric Soil Present?  Hydric Soil Present?  Yes No X										
Hydric 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) High Chroma Sands (S11) (LRR K, L) Stratified Layers (A5) Depleted Below Dark Surface (A11) Depleted Below Dark Surface (A11) Depleted Below Dark Surface (A11) Depleted Below Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Depleted Dark Surface (F6) Sandy Gleyed Matrix (S4) Stripped Matrix (S6) Marl (F10) (LRR K, L) Depleted Dark Surface (F22) Stripped Matrix (S6) Dark Surface (S7)  Marl (F10) (LRR K, L)  Marl (F10) (LRR K, L)  Medicators for Problematic Hydric Soils :  1 2 cm Muck (A10) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Coast Prairie Redox (A16) (LRR K, L) Coast Prairie Redox (A16) (LRR K, L) Coast Prairie Redox (A16) (LRR K, L) Coast Prairie Redox (A16) Coast Prairie Redox										
Hydric 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)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1)  Sandy Mucky Mineral (S1)  Sandy Gleyed Matrix (S4)  Depleted Dark Surface (F6)  Sandy Redox (S5)  Redox Depressions (F8)  Stripped Matrix (S6)  Dark Surface (S7)  Marl (F10) (LRR K, L)  Depleted Dark Surface (F22)  Stripped Matrix (S6)  Dark Surface (S7)  Marl (F10) (LRR K, L)  Hydric Soil Present?  Hydric Soil Present?  Hydric Soil Present?  Yes No X										
Hydric 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)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1)  Sandy Mucky Mineral (S1)  Sandy Gleyed Matrix (S4)  Depleted Dark Surface (F6)  Sandy Redox (S5)  Redox Depressions (F8)  Stripped Matrix (S6)  Dark Surface (S7)  Marl (F10) (LRR K, L)  Depleted Dark Surface (F22)  Stripped Matrix (S6)  Dark Surface (S7)  Marl (F10) (LRR K, L)  Hydric Soil Present?  Hydric Soil Present?  Hydric Soil Present?  Yes No X										
Hydric 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)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1)  Sandy Mucky Mineral (S1)  Sandy Gleyed Matrix (S4)  Depleted Dark Surface (F6)  Sandy Redox (S5)  Redox Depressions (F8)  Stripped Matrix (S6)  Dark Surface (S7)  Marl (F10) (LRR K, L)  Depleted Dark Surface (F22)  Stripped Matrix (S6)  Dark Surface (S7)  Marl (F10) (LRR K, L)  Hydric Soil Present?  Hydric Soil Present?  Hydric Soil Present?  Yes No X										
Hydric 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)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1)  Sandy Mucky Mineral (S1)  Sandy Gleyed Matrix (S4)  Depleted Dark Surface (F6)  Sandy Redox (S5)  Redox Depressions (F8)  Stripped Matrix (S6)  Dark Surface (S7)  Marl (F10) (LRR K, L)  Depleted Dark Surface (F22)  Stripped Matrix (S6)  Dark Surface (S7)  Marl (F10) (LRR K, L)  Hydric Soil Present?  Hydric Soil Present?  Hydric Soil Present?  Yes No X										
Hydric 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)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1)  Sandy Mucky Mineral (S1)  Sandy Gleyed Matrix (S4)  Depleted Dark Surface (F6)  Sandy Redox (S5)  Redox Depressions (F8)  Stripped Matrix (S6)  Dark Surface (S7)  Marl (F10) (LRR K, L)  Depleted Dark Surface (F22)  Stripped Matrix (S6)  Dark Surface (S7)  Marl (F10) (LRR K, L)  Hydric Soil Present?  Hydric Soil Present?  Hydric Soil Present?  Yes No X										
Hydric 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)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1)  Sandy Mucky Mineral (S1)  Sandy Gleyed Matrix (S4)  Depleted Dark Surface (F6)  Sandy Redox (S5)  Redox Depressions (F8)  Stripped Matrix (S6)  Dark Surface (S7)  Marl (F10) (LRR K, L)  Depleted Dark Surface (F22)  Stripped Matrix (S6)  Dark Surface (S7)  Marl (F10) (LRR K, L)  Hydric Soil Present?  Hydric Soil Present?  Hydric Soil Present?  Yes No X										
Hydric 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)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1)  Sandy Mucky Mineral (S1)  Sandy Gleyed Matrix (S4)  Depleted Dark Surface (F6)  Sandy Redox (S5)  Redox Depressions (F8)  Stripped Matrix (S6)  Dark Surface (S7)  Marl (F10) (LRR K, L)  Depleted Dark Surface (F22)  Stripped Matrix (S6)  Dark Surface (S7)  Marl (F10) (LRR K, L)  Hydric Soil Present?  Hydric Soil Present?  Hydric Soil Present?  Yes No X										
Hydric 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)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1)  Sandy Mucky Mineral (S1)  Sandy Gleyed Matrix (S4)  Depleted Dark Surface (F6)  Sandy Redox (S5)  Redox Depressions (F8)  Stripped Matrix (S6)  Dark Surface (S7)  Marl (F10) (LRR K, L)  Depleted Dark Surface (F22)  Stripped Matrix (S6)  Dark Surface (S7)  Marl (F10) (LRR K, L)  Hydric Soil Present?  Hydric Soil Present?  Hydric Soil Present?  Yes No X	1									
Histosol (A1)	• •	•	etion, RM	=Reduced Matrix, M	S=Mas	ked San	d Grains.			
Histic Epipedon (A2)  Black Histic (A3)  Thin Dark Surface (S9) (LRR R, MLRA 149B)  5 cm Mucky Peat or Peat (S3) (LRR K, L, R)  Hydrogen Sulfide (A4)  High Chroma Sands (S11) (LRR K, L)  Stratified Layers (A5)  Loamy Mucky Mineral (F1) (LRR K, L)  Depleted Below Dark Surface (A11)  Loamy Gleyed Matrix (F2)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1)  Sandy Mucky Mineral (S1)  Sandy Gleyed Matrix (S4)  Stripped Matrix (S6)  Dark Surface (S7)  Marl (F10) (LRR K, L)  Depleted Dark Surface (F7)  Stripped Matrix (S6)  Dark Surface (S7)  And (F10) (LRR K, L)  Hydric Soil Present?  Yes No X	=			Polyvalue Belo	w Surfa	na (S8) (	I DD D			
Black Histic (A3)				<del></del> -		(50) (	LIXIX IX,			
Hydrogen Sulfide (A4)  High Chroma Sands (S11) (LRR K, L)  Polyvalue Below Surface (S8) (LRR K, L)  Stratified Layers (A5)  Loamy Mucky Mineral (F1) (LRR K, L)  Thin Dark Surface (S9) (LRR K, L)  Depleted Below Dark Surface (A11)  Loamy Gleyed Matrix (F2)  Iron-Manganese Masses (F12) (LRR K, L, F1)  Thick Dark Surface (A12)  Depleted Matrix (F3)  Piedmont Floodplain Soils (F19) (MLRA 149)  Sandy Mucky Mineral (S1)  Redox Dark Surface (F6)  Mesic Spodic (TA6) (MLRA 144A, 145, 149)  Sandy Gleyed Matrix (S4)  Depleted Dark Surface (F7)  Red Parent Material (F21)  Sandy Redox (S5)  Redox Depressions (F8)  Very Shallow Dark Surface (F22)  Stripped Matrix (S6)  Marl (F10) (LRR K, L)  Other (Explain in Remarks)  Dark Surface (S7)  **Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.**  **Restrictive Layer (if observed):  Type:  Gravel  Depth (inches): 13  Hydric Soil Present? Yes No X				•		(LRR R	, MLRA 1			
Depleted Below Dark Surface (A11)  Loamy Gleyed Matrix (F2)  Iron-Manganese Masses (F12) (LRR K, L, F Thick Dark Surface (A12)  Sandy Mucky Mineral (S1)  Redox Dark Surface (F6)  Mesic Spodic (TA6) (MLRA 144A, 145, 149I)  Sandy Gleyed Matrix (S4)  Depleted Dark Surface (F7)  Red Parent Material (F21)  Very Shallow Dark Surface (F22)  Stripped Matrix (S6)  Dark Surface (S7)  Marl (F10) (LRR K, L)  Other (Explain in Remarks)  Dark Surface (S7)  Type: Gravel  Depth (inches): 13  Hydric Soil Present? Yes No X		` '								
Thick Dark Surface (A12)  Depleted Matrix (F3)  Sandy Mucky Mineral (S1)  Sandy Gleyed Matrix (S4)  Depleted Dark Surface (F7)  Sandy Redox (S5)  Redox Depressions (F8)  Stripped Matrix (S6)  Dark Surface (S7)  Marl (F10) (LRR K, L)  Other (Explain in Remarks)  Piedmont Floodplain Soils (F19) (MLRA 144A, 145, 149I)  Mesic Spodic (TA6) (MLRA 144A, 145, 149I)  Red Parent Material (F21)  Very Shallow Dark Surface (F22)  Other (Explain in Remarks)  Other (Explain in Remarks)  Piedmont Floodplain Soils (F19) (MLRA 148, 149I)  Red Parent Material (F21)  Very Shallow Dark Surface (F22)  Other (Explain in Remarks)  Piedmont Floodplain Soils (F19) (MLRA 148, 149I)  Red Parent Material (F21)  Very Shallow Dark Surface (F22)  Other (Explain in Remarks)  Piedmont Floodplain Soils (F19) (MLRA 148, 149I)  Red Parent Material (F21)  Very Shallow Dark Surface (F22)  Other (Explain in Remarks)  Piedmont Floodplain Soils (F19) (MLRA 148, 149I)  Red Parent Material (F21)  Very Shallow Dark Surface (F22)  Other (Explain in Remarks)  Piedmont Floodplain Soils (F19) (MLRA 148, 149I)  Redox Dark Surface (F7)  Red Parent Material (F21)  Very Shallow Dark Surface (F22)  Other (Explain in Remarks)  Piedmont Floodplain Soils (F19) (MLRA 149I)  Redox Dark Surface (F7)  Red Parent Material (F21)  Very Shallow Dark Surface (F22)  Other (Explain in Remarks)  Piedmont Floodplain Soils (F19) (MLRA 149I)  Redox Dark Surface (F7)  Red Parent Material (F21)  Very Shallow Dark Surface (F22)  Very Shallow Dark Surface (F22)  No Language Shallow Dark Surface (F22)  Pied Tark Shallow Dark Surface (F7)  Red Parent Material (F21)  Redox Dark Surface (F7)  Red Parent Material (F21)  Redox Dark Surface (F7)			,							
Sandy Mucky Mineral (S1) Redox Dark Surface (F6) Mesic Spodic (TA6) (MLRA 144A, 145, 149I Sandy Gleyed Matrix (S4) Depleted Dark Surface (F7) Red Parent Material (F21) Very Shallow Dark Surface (F22) Stripped Matrix (S6) Marl (F10) (LRR K, L) Other (Explain in Remarks) Dark Surface (S7)  3Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.  Restrictive Layer (if observed): Type: Gravel Depth (inches): 13 Hydric Soil Present? Yes No X	Depleted	Below Dark Surface	(A11)	Loamy Gleyed	Matrix (	F2)		Iron-Mang	ganese Masses (F´	12) ( <b>LRR K, L, R</b>
Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Redox Depressions (F8)  Stripped Matrix (S6)  Dark Surface (S7)  3Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.  Restrictive Layer (if observed):  Type: Gravel  Depth (inches): 13  Depleted Dark Surface (F7)  Red Parent Material (F21)  Very Shallow Dark Surface (F22)  Other (Explain in Remarks)  Other (Explain in Remarks)  Hydric Soil Present? Yes No X	Thick Dar	rk Surface (A12)		Depleted Matrix	(F3)			Piedmont	Floodplain Soils (F	=19) ( <b>MLRA 149</b>
Sandy Redox (S5) Redox Depressions (F8) Very Shallow Dark Surface (F22) Stripped Matrix (S6) Marl (F10) (LRR K, L) Other (Explain in Remarks)  Dark Surface (S7)  *Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.  Restrictive Layer (if observed): Type: Gravel  Depth (inches): 13 Hydric Soil Present? Yes No X					•	,				144A, 145, 149E
Stripped Matrix (S6) Marl (F10) (LRR K, L) Other (Explain in Remarks)  Dark Surface (S7)  Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.  Restrictive Layer (if observed):  Type: Gravel  Depth (inches): 13 Hydric Soil Present? Yes No X									` '	
Dark Surface (S7)  Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.  Restrictive Layer (if observed):  Type: Gravel  Depth (inches): 13  Hydric Soil Present? Yes No X					•	3)				F22)
Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.  Restrictive Layer (if observed):  Type: Gravel  Depth (inches): 13 Hydric Soil Present? Yes No X	Stripped		,	Marl (F10) ( <b>LR</b>	R K, L)			Other (Ex	plain in Remarks)	
Restrictive Layer (if observed):           Type:         Gravel           Depth (inches):         13           Hydric Soil Present?         Yes         No	Doub Cond	Tace (57)								
Restrictive Layer (if observed):           Type:         Gravel           Depth (inches):         13           Hydric Soil Present?         Yes         No	Dark Sur	(,					مادات مادات			
Depth (inches):         13         Hydric Soil Present?         Yes         No         X			ion and we	etland hydrology mu	st be pr	esent, u	กเอรร ดเรแ	urbed or problematic.		
	<sup>3</sup> Indicators of	hydrophytic vegetat	ion and w	etland hydrology mu	st be pr	esent, u	niess dist	urbed or problematic.		
	<sup>3</sup> Indicators of Restrictive L	hydrophytic vegetati		etland hydrology mu	st be pr	esent, u	niess disti	urbed or problematic.		
	<sup>3</sup> Indicators of <b>Restrictive L</b> Type:	hydrophytic vegetati .ayer (if observed): Grav	⁄el	etland hydrology mu	st be pr	esent, u	mess dist		? Yes	No X
	<sup>3</sup> Indicators of Restrictive L Type: Depth (in	hydrophytic vegetati .ayer (if observed): Grav	⁄el	etland hydrology mu	st be pr	esent, u	niess distr		?? Yes	NoX
	<sup>3</sup> Indicators of <b>Restrictive L</b> Type: _ Depth (in	hydrophytic vegetati .ayer (if observed): Grav	⁄el	etland hydrology mu	st be pr	esent, u	mess disti		:? Yes	NoX
	<sup>3</sup> Indicators of <b>Restrictive L</b> Type: _ Depth (in	hydrophytic vegetati .ayer (if observed): Grav	⁄el	etland hydrology mu	st be pr	esent, ui	niess disti		:? Yes	NoX
	<sup>3</sup> Indicators of <b>Restrictive L</b> Type: _ Depth (in	hydrophytic vegetati .ayer (if observed): Grav	⁄el	etland hydrology mu	st be pr	esent, ui	mess disti		? Yes	NoX
	<sup>3</sup> Indicators of <b>Restrictive L</b> Type: _ Depth (in	hydrophytic vegetati .ayer (if observed): Grav	⁄el	etland hydrology mu	st be pr	esent, ui	niess disti		:? Yes	NoX
	<sup>3</sup> Indicators of <b>Restrictive L</b> Type: _ Depth (in	hydrophytic vegetati .ayer (if observed): Grav	⁄el	etland hydrology mu	st be pr	esent, ui	mess distr		? Yes	NoX
	<sup>3</sup> Indicators of <b>Restrictive L</b> Type: _ Depth (in	hydrophytic vegetati .ayer (if observed): Grav	⁄el	etland hydrology mu	st be pr	esent, ui	mess distr		? Yes	NoX_
	<sup>3</sup> Indicators of <b>Restrictive L</b> Type: _ Depth (in	hydrophytic vegetati .ayer (if observed): Grav	⁄el	etland hydrology mu	st be pr	esent, ui	mess disti		? Yes	No X
	<sup>3</sup> Indicators of <b>Restrictive L</b> Type: _ Depth (in	hydrophytic vegetati .ayer (if observed): Grav	⁄el	etland hydrology mu	st be pr	esent, ui	niess disti		? Yes	NoX
	<sup>3</sup> Indicators of <b>Restrictive L</b> Type: _ Depth (in	hydrophytic vegetati .ayer (if observed): Grav	⁄el	etland hydrology mu	st be pr	esent, ui	mess disti		? Yes	NoX
	<sup>3</sup> Indicators of <b>Restrictive L</b> Type: _ Depth (in	hydrophytic vegetati .ayer (if observed): Grav	⁄el	etland hydrology mu	st be pr	esent, ui	mess disti		? Yes	No X
	<sup>3</sup> Indicators of <b>Restrictive L</b> Type: _ Depth (in	hydrophytic vegetati .ayer (if observed): Grav	⁄el	etland hydrology mu	st be pr	esent, ui	mess disti		? Yes	NoX



**Upland CBZ-5 View facing northeast** 

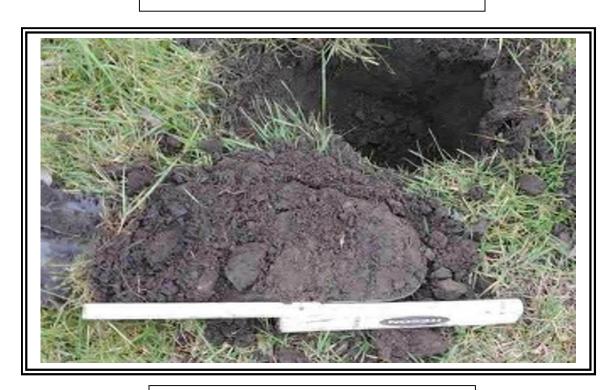


**Upland CBZ-5 Soils** 

Segment 3 - Package 2



**Upland CBZ-7 View facing south/southwest** 



**Upland CBZ-7 Soils** 

Segment 3 - Package 2

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

Project/Site: CHPE	City/County: Fort Ann/Washington Sampling Date: 11/18/21
Applicant/Owner: TDI	State: NY Sampling Point: ccz-24 we
Investigator(s): N. Frazer, C. Einstein	Section, Township, Range:
Landform (hillside, terrace, etc.): depression Local	relief (concave, convex, none): concave Slope %: 0
Subregion (LRR or MLRA): LRR R Lat: 43-26-18N	Long: 73-26-59W Datum: WGS84
Soil Map Unit Name: Saprist, Aquepts, and Aquents (SB)	NWI classification: PFO
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes x No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly distur	<del></del>
Are Vegetation , Soil , or Hydrology naturally problems	
SUMMARY OF FINDINGS – Attach site map showing sam	
Hydrophytic Vegetation Present? Yes X No	Is the Sampled Area
Hydric Soil Present?  Yes X No	within a Wetland? Yes X No
Wetland Hydrology Present? Yes X No	If yes, optional Wetland Site ID:
Remarks: (Explain alternative procedures here or in a separate report.) Floodplain forest.	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
X Surface Water (A1) X Water-Stained Leaves (I	B9) Drainage Patterns (B10)
X High Water Table (A2) Aquatic Fauna (B13)	X Moss Trim Lines (B16)
Saturation (A3) — Marl Deposits (B15)	Dry-Season Water Table (C2)
Water Marks (B1) Hydrogen Sulfide Odor (	· · · · · · · · · · · · · · · · · · ·
Sediment Deposits (B2)  Oxidized Rhizospheres of the control of th	
Drift Deposits (B3) Presence of Reduced Iro	<del></del>
Algal Mat or Crust (B4)  Recent Iron Reduction in This Music Curfo as (C7)	· · · · · · · · · · · · · · · · · · ·
Iron Deposits (B5)  — Thin Muck Surface (C7)  — Other (Explain in Report	<del></del>
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remar	rks) Microtopographic Relief (D4) X FAC-Neutral Test (D5)
Sparsely Vegetated Concave Surface (B8)	A FAC-Neutral Test (D5)
Field Observations:	0.5
Surface Water Present? Yes x No Depth (inches):	
Water Table Present? Yes x No Depth (inches): Saturation Present? Yes x No Depth (inches):	
Saturation Present? Yes x No Depth (inches): (includes capillary fringe)	:0 Wetland Hydrology Present? Yes _ X No
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	l evious inspections), if available:
	,,
Remarks:	
Adjacent to a canal.	

65 5	Yes No	FACW FACW	Number of Dominant Species That Are ORL FACW or FAC: 5 (A)
5	No	FACW	
			That Are OBL, FACW, or FAC: 5 (A)
			Total Number of Descinant
			Total Number of Dominant Species Across All Strata: 5 (B)
			Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B
			Prevalence Index worksheet:
70	=Total Cover		Total % Cover of: Multiply by:
-			OBL species 39 x 1 = 39
50	Yes	FACW	FACW species 200 x 2 = 400
35	Yes	FACW	FAC species 5 x 3 = 15
5	No No	FACU	FACU species 5 x 4 = 20
			UPL species 0 x 5 = 0
	,		Column Totals: 249 (A) 474 (B
			Prevalence Index = B/A = 1.90
	,		Hydrophytic Vegetation Indicators:
90	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
	,		X 2 - Dominance Test is >50%
45	Yes	FACW	X 3 - Prevalence Index is ≤3.0 <sup>1</sup>
35	Yes	OBL	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
5	No No	FAC	data in Remarks or on a separate sheet)
	No	OBL	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
	No	OBL	<del>                                   </del>
	,		<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
			Definitions of Vegetation Strata:
	,		Tree – Woody plants 3 in. (7.6 cm) or more in
			diameter at breast height (DBH), regardless of height
			Sapling/shrub – Woody plants less than 3 in. DBH
	,		and greater than or equal to 3.28 ft (1 m) tall.
			Herb – All herbaceous (non-woody) plants, regardles
89	=Total Cover		of size, and woody plants less than 3.28 ft tall.
	•		Woody vines – All woody vines greater than 3.28 ft ii
			height.
	,		
			Hydrophytic Vegetation
			Present? Yes X No
	=Total Cover		
	50 35 5 90 45 35 5 2 2	50 Yes 35 Yes 5 No  90 =Total Cover  45 Yes 35 Yes 5 No 2 No 2 No 89 =Total Cover	50         Yes         FACW           35         Yes         FACW           5         No         FACU           90         =Total Cover           45         Yes         FACW           35         Yes         OBL           5         No         FAC           2         No         OBL           2         No         OBL           89         =Total Cover

SOIL Sampling Point CCZ-24 Wet

		o the de				ator or co	onfirm the absence o	f indicators.)
Depth	Matrix	0/		k Featur		1.22	Taydyma	Domonico
(inches)	Color (moist)		Color (moist)		Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-5	10YR 2/1	_100_	-				Loamy/Clayey	
5-20	10YR 4/1	80	10YR 5/6	20	C	M	Loamy/Clayey	Prominent redox concentrations
					-			
<sup>1</sup> Type: C=Ce	oncentration, D=Deple	etion. RN	/=Reduced Matrix. M	 S=Mas	ked Sand	d Grains.	<sup>2</sup> Location: P	L=Pore Lining, M=Matrix.
Hydric Soil	•		, , , , , , , , , , , , , , , , , , , ,					or Problematic Hydric Soils <sup>3</sup> :
Histosol			Polyvalue Belo	w Surfa	ce (S8) (	LRR R,		uck (A10) ( <b>LRR K, L, MLRA 149B</b> )
Histic Ep	oipedon (A2)		MLRA 149B	)			Coast P	rairie Redox (A16) ( <b>LRR K, L, R</b> )
Black Hi	stic (A3)		Thin Dark Surfa	ace (S9	(LRR R	, MLRA 1	<b>49B</b> ) 5 cm Mu	ıcky Peat or Peat (S3) ( <b>LRR K, L, R</b> )
	n Sulfide (A4)		High Chroma S					ie Below Surface (S8) ( <b>LRR K, L</b> )
	d Layers (A5)		Loamy Mucky I			R K, L)		rk Surface (S9) ( <b>LRR K, L</b> )
	d Below Dark Surface	(A11)	Loamy Gleyed		F2)			nganese Masses (F12) (LRR K, L, R)
	ark Surface (A12)		X Depleted Matrix		-0)			nt Floodplain Soils (F19) (MLRA 149B)
	lucky Mineral (S1) Bleyed Matrix (S4)		Redox Dark Su Depleted Dark					podic (TA6) ( <b>MLRA 144A, 145, 149B</b> ) ent Material (F21)
	ledox (S5)		Redox Depress					allow Dark Surface (F22)
	Matrix (S6)		Marl (F10) (LR	•	0)			explain in Remarks)
	rface (S7)			, _,				spian in remarke,
	(,							
<sup>3</sup> Indicators o	f hydrophytic vegetati	on and v	vetland hydrology mu	ıst be pı	esent, ur	nless dist	urbed or problematic.	
Restrictive	Layer (if observed):							
Туре:	none	Э						
Depth (ii	nches):						Hydric Soil Presei	nt? Yes <u>X</u> No
Remarks:								
								CS Field Indicators of Hydric Soils,
Version 7.0,	2015 Errata. (http://w	ww.nrcs	.usda.gov/Internet/F	SE_DOO	CUMENT	S/nrcs14	2p2_051293.docx)	



Wetland CCZ-24- View facing east



Wetland CCZ-24- Soils

Segment 3 - Package 2

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

Project/Site: CHPE	City/County: Fort Ann/Washington Sampling Date: 11/18/21					
Applicant/Owner: TDI	State: NY Sampling Point: ccz-24 Upl					
Investigator(s): N. Frazer, C. Einstein	Section, Township, Range:					
	relief (concave, convex, none): none Slope %: 0					
Subregion (LRR or MLRA): LRR R Lat: 43-26-18N	Long: 73-26-59W Datum: WGS 84					
Soil Map Unit Name: Saprists, Aquepts, and Aquents (SB)	NWI classification: N/A					
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes x No (If no, explain in Remarks.)					
Are Vegetation, Soil, or Hydrology significantly distur						
Are Vegetation, Soil, or Hydrologynaturally problems						
SUMMARY OF FINDINGS – Attach site map showing sam	pling point locations, transects, important features, etc.					
Hydrophytic Vegetation Present? Yes No X	Is the Sampled Area					
Hydric Soil Present? Yes No X	within a Wetland? Yes No X					
Wetland Hydrology Present? Yes No X	If yes, optional Wetland Site ID:					
Mowed roadside.						
HYDROLOGY						
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)					
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)					
Surface Water (A1) Water-Stained Leaves (	B9) Drainage Patterns (B10)					
High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)					
Saturation (A3) — Marl Deposits (B15)	Dry-Season Water Table (C2)					
Water Marks (B1) Hydrogen Sulfide Odor (	(C1) Crayfish Burrows (C8)					
Sediment Deposits (B2)  Oxidized Rhizospheres						
Drift Deposits (B3) Presence of Reduced In						
Algal Mat or Crust (B4)  Recent Iron Reduction in						
Iron Deposits (B5) — Thin Muck Surface (C7)	· · · · · · · · · · · · · · · · · · ·					
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remar						
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)					
Field Observations:						
Surface Water Present? Yes No _x Depth (inches)	: <u></u>					
Water Table Present? Yes No _x Depth (inches)	: <u></u>					
Saturation Present? Yes No x Depth (inches)	: Wetland Hydrology Present? Yes No _X					
(includes capillary fringe)						
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	evious inspections), if available:					
Remarks:						

	Absolute	Dominant	Indicator	
ree Stratum (Plot size:30')	% Cover	Species?	Status	Dominance Test worksheet:
•				Number of Dominant Species
•				That Are OBL, FACW, or FAC:1 (A)
·				Total Number of Dominant
·	·			Species Across All Strata: 2 (B)
•				Percent of Dominant Species
·	·			That Are OBL, FACW, or FAC: (A/B
·	·			Prevalence Index worksheet:
		=Total Cover		Total % Cover of: Multiply by:
apling/Shrub Stratum (Plot size:15'	)			OBL species 0 x 1 = 0
	·			FACW species 0 x 2 = 0
				FAC species 42 x 3 =126
				FACU species 52 x 4 = 208
·				UPL species 22 x 5 = 110
· <u></u>				Column Totals: 116 (A) 444 (B
· .				Prevalence Index = B/A = 3.83
· .				Hydrophytic Vegetation Indicators:
		=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
erb Stratum (Plot size:5' )				2 - Dominance Test is >50%
Poa pratensis	45	Yes	FACU	3 - Prevalence Index is ≤3.0 <sup>1</sup>
Pastinaca sativa	20	<u>No</u>	UPL	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
Geranium maculatum	5	No	FACU	data in Remarks or on a separate sheet)
Galium boreale	2	No	FAC	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
Taraxacum officinale	1	No	FACU	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
Trifolium pratense	1	No	FACU	be present, unless disturbed or problematic.
Setaria pumila	40	Yes	FAC	Definitions of Vegetation Strata:
Daucus carota	2	No	UPL	Tree – Woody plants 3 in. (7.6 cm) or more in
·				diameter at breast height (DBH), regardless of height.
0				Sapling/shrub – Woody plants less than 3 in. DBH
1				and greater than or equal to 3.28 ft (1 m) tall.
_	· .			Herb – All herbaceous (non-woody) plants, regardless
2		=Total Cover		of size, and woody plants less than 3.28 ft tall.
2	116			of size, and woody plants less than 3.20 it tall.
2	<u>116</u> )			
/oody Vine Stratum (Plot size: 30'	)			
/oody Vine Stratum (Plot size: 30'	)			Woody vines – All woody vines greater than 3.28 ft in height.
/oody Vine Stratum (Plot size: 30'				Woody vines – All woody vines greater than 3.28 ft in height.  Hydrophytic
/oody Vine Stratum (Plot size: 30'				Woody vines – All woody vines greater than 3.28 ft in height.

SOIL Sampling Point CCZ-24 Upl

		o the de				itor or co	onfirm the absence of ind	icators.)
Depth (inches)	Matrix Color (moist)	%	Color (moist)	x Featur %	es Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-8	10YR 2/1	100	Color (moist)		Туре		Loamy/Clayey	Remarks
8-12	10YR 4/3	100					Loamy/Clayey	
0-12	1011/4/3	100					Loanty/Clayey	
								_
			-					
1Turno: C=Co	ncentration, D=Deple	otion DN	I-Poduced Matrix A				2l continu: DI =Ds	ore Lining, M=Matrix.
Hydric Soil I		elion, Kiv	i-Reduced Matrix, N	13-IVIAS	keu Sanc	i Grains.		oblematic Hydric Soils <sup>3</sup> :
Histosol (			Polyvalue Belo	w Surfa	ce (S8) (I	LRR R,		(10) (LRR K, L, MLRA 149B)
Histic Ep	ipedon (A2)		MLRA 149B	)			Coast Prairie	Redox (A16) ( <b>LRR K, L, R</b> )
Black His	` '		Thin Dark Surfa					Peat or Peat (S3) (LRR K, L, R)
	n Sulfide (A4)		High Chroma S					ow Surface (S8) (LRR K, L)
	Layers (A5)	(444)	Loamy Mucky			R K, L)		rface (S9) (LRR K, L)
	Below Dark Surface	(A11)	Loamy Gleyed		F2)			ese Masses (F12) (LRR K, L, R)
	rk Surface (A12) ucky Mineral (S1)		— Depleted Matri Redox Dark Su		-6)			odplain Soils (F19) ( <b>MLRA 149B</b> ) (TA6) ( <b>MLRA 144A, 145, 149B</b> )
	leyed Matrix (S4)		Depleted Dark	•	,		Red Parent M	
	edox (S5)		Redox Depress					Dark Surface (F22)
Stripped	Matrix (S6)		Marl (F10) ( <b>LR</b>	RK, L)			Other (Explain	n in Remarks)
Dark Sur	face (S7)						<del>_</del>	
3								
	nydropnytic vegetati	on and w	etiana nyarology mu	ıst be pr	resent, ur	ness dist	urbed or problematic.	
Type:	grave	el						
Depth (in		12					Hydric Soil Present?	Yes No _X_
Remarks:								
								eld Indicators of Hydric Soils,
version 7.0, 2	2015 Errata. (http://w	ww.nrcs.	usda.gov/internet/F	SE_DOC	JUMENT	S/nrcs14	2p2_051293.docx)	



**Upland CCZ-24- View facing northeast** 



**Upland CCZ-24- Soils** 

Segment 3 - Package 2

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

Project/Site: CHPE	City/County: Fort Ann/Washington Sampling Date: 11/18/21
Applicant/Owner: TDI	State: NY Sampling Point: CDZ-4 Wet
Investigator(s): N. Frazer, C. Einstein	Section, Township, Range:
	relief (concave, convex, none): concave Slope %: 0
Subregion (LRR or MLRA): LRR R Lat: 43-26-17N	Long: 73-27-00W Datum: WGS 84
Soil Map Unit Name: Saprists, Aquepts and Aquents (SB)	NWI classification: PFO
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes x No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrologysignificantly distur	rbed? Are "Normal Circumstances" present? Yes x No
Are Vegetation, Soil, or Hydrologynaturally problems	atic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sam	pling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes X No	Is the Sampled Area
Hydric Soil Present? Yes X No	within a Wetland? Yes X No
Wetland Hydrology Present? Yes X No	If yes, optional Wetland Site ID:
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
X Surface Water (A1) X Water-Stained Leaves (	<del></del>
X High Water Table (A2) Aquatic Fauna (B13)	X Moss Trim Lines (B16)
Saturation (A3)Marl Deposits (B15)	Dry-Season Water Table (C2)
Water Marks (B1)  Hydrogen Sulfide Odor (	
Sediment Deposits (B2)  Oxidized Rhizospheres  Oxidized Rhizospheres	
Presence of Reduced In	
Algal Mat or Crust (B4)  Recent Iron Reduction in  This Much Surface (G7)	
Iron Deposits (B5)  Thin Muck Surface (C7)  Other (Figure in Person (B7))	
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remar	rks) Microtopographic Relief (D4) X FAC-Neutral Test (D5)
Sparsely Vegetated Concave Surface (B8)	X FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes x No Depth (inches)	
Water Table Present? Yes x No Depth (inches)	
Saturation Present? Yes x No Depth (inches)	∷0 Wetland Hydrology Present? Yes X No
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	evious inspections), if available:
Domarka	
Remarks:	

Populus delicides	<u>Tree Stratum</u> (Plot size: 30' )	Absolute % Cover	Dominant Species 2	Indicator	Dominance Test worksheet:				
			Species?	Status	Dominance Test worksheet:				
Colar Number of Dominant Species   7	<u> </u>				·				
Species Across All Strata: 7 (B)   Percent of Dominant Species   That Are OBL, FACW, or FAC: 71.4% (A/B)	3.				Total Number of Deminant				
Percent of Dominant Species   71,4	4.								
That Are OBL. FACW. or FAC:	5.				Percent of Deminant Species				
Total % Cover of:	6.								
Saping/Shrub Stratum   (Plot size: 15"   )	7.								
. Comus amonum  40 Yes FACW    Lonicera tatarica   35 Yes FACU   FACW Species   130		75	=Total Cover		Total % Cover of: Multiply by:				
Lonicera tatarice   35   Yes   FACU   FACS   FACU   FACS   FACU   FACS   FACU   FACS   FACU   FACS   FACU   FACS   FAC	Sapling/Shrub Stratum (Plot size:15')				OBL species20 x 1 =20				
15 No FACW	1. Cornus amomum	40	Yes	FACW	FACW species 130 x 2 = 260				
UPL species 0 x5 = 0 Column Totals: 242 (A) 596 (B) Prevalence Index = B/A = 2.46  Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation MX 2 - Dominance Test is >50% X 2 - Dominance Test is >50% X 3 - Prevalence Index = S/A = 3.46  Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation MX 2 - Dominance Test is >50% X 3 - Prevalence Index = S/A = 3.01  X 2 - Dominance Test is >50% X 3 - Prevalence Index is <3.01  A - Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation (Explain)  Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.  Definitions of Vegetation Strata:  Tree - Woody plants 3 in, (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  Sapling/shrub - Woody plants less than 3 in DBH and greater than or equal to 3.28 ft (ft m) tall.  Voody Vine Stratum (Plot size: 30')  Vitis aestivalis	2. Lonicera tatarica	35	Yes	FACU	FAC species 52 x 3 = 156				
Column Totals: 242 (A) 596 (B) Prevalence Index = B/A = 2.46  Hydrophytic Vegetation Indicators:  1 - Rapid Test for Hydrophytic Vegetation  20 Yes OBL Equisetum arvense 2 No FAC Problematic Hydrophytic Vegetation in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation  4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain)  1 Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.  Definitions of Vegetation Strata:  Tree — Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  Sapling/shrub — Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.  Woody Vine Stratum (Plot size: 30')  Vitis aestivalis 5 Yes FACU Hydrophytic Vegetation  Hydrophytic Vegetation Indicators:  1 - Rapid Test for Hydrophytic Vegetation  4 - 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.  Definitions of Vegetation Stratas:  Tree — Woody plants Ises than 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  Sapling/shrub — Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.  Woody vine Stratum (Plot size: 30')  Vitis aestivalis 5 Yes FACU Hydrophytic Vegetation Present? Yes X No	3. Ulmus americana	15	No	FACW	FACU species40 x 4 =160				
Prevalence Index = B/A =2.46    Hydrophytic Vegetation Indicators:   1 - Rapid Test for Hydrophytic Vegetation	4				UPL species0 x 5 =0				
Hydrophytic Vegetation Indicators:   90	5				Column Totals: <u>242</u> (A) <u>596</u> (B)				
90   =Total Cover   1 - Rapid Test for Hydrophytic Vegetation   X 2 - Dominance Test is >50%   X 3 - Prevalence Index is ≤3.0¹   X 2 - Dominance Test is >50%   X 3 - Prevalence Index is ≤3.0¹   X 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)   Problematic Hydrophytic Vegetation 1 (Explain)   Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.   Definitions of Vegetation Strate:   Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.   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.   Hydrophytic Vegetation   Present? Yes X No   No   Present? Yes X No	6				Prevalence Index = B/A =2.46				
left b Stratum       (Plot size: 5' )       X       2 - Dominance Test is >50%         . Cornus amomum       50       Yes       FACW         2. Sparganium americanum       20       Yes       OBL         4. Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)       Problematic Hydrophytic Vegetation¹ (Explain)         1. Sparganium arvense       2       No       FAC         2. No       FAC       Problematic Hydrophytic Vegetation¹ (Explain)         1 Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.       Definitions of Vegetation Strata:         3. Definitions of Vegetation Strata:       Tree – Woody plants 3 in, (7.6 cm) or more in diameter at breast height (DBH), regardless of height.         4. Sapling/shrub – Woody plants less than 3 in, DBH and greater than or equal to 3.28 ft (1 m) tall.         2. Total Cover       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.       Hydrophytic Vegetation         4. Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)       No         4. Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)       No         Problematic Hydrophytic Vegetation       No	7				Hydrophytic Vegetation Indicators:				
. Cornus amonum  50 Yes FACW Spaganium americanum 20 Yes OBL Equisetum arvense 2 No FAC  Problematic Hydrophytic Vegetation¹ (Explain)  ¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.  Definitions of Vegetation Strata:  Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.  Woody Vine Stratum (Plot size: 30') Vitis aestivalis 5 Yes FACU Hydrophytic Vegetation Present? Yes X No  Hydrophytic Vegetation Present? Yes X No		90	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation				
20 Yes OBL 4 - Morphological Adaptations 1 (Provide supporting data in Remarks or on a separate sheet)  Problematic Hydrophytic Vegetation 1 (Explain)  Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.  Definitions of Vegetation Strata:  Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.  Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft in height.  Woody Vine Stratum (Plot size: 30')  Vitis aestivalis 5 Yes FACU  Hydrophytic Vegetation Present? Yes X No	Herb Stratum (Plot size:)				X 2 - Dominance Test is >50%				
data in Remarks or on a separate sheet)  Problematic Hydrophytic Vegetation¹ (Explain)  Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.  Definitions of Vegetation Strata:  Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.  Problematic Hydrophytic Vegetation¹ (Explain)  Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.  Definitions of Vegetation Strata:  Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.  Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  Woody vines – All woody vines greater than 3.28 ft in height.  Hydrophytic Vegetation Present? Yes X No	1. Cornus amomum	50	Yes	FACW	X 3 - Prevalence Index is ≤3.0 <sup>1</sup>				
Problematic Hydrophytic Vegetation (Explain)  Problematic Hydrophytic Vegetation (Explain)  Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.  Definitions of Vegetation Strata:  Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.  Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  Woody Vine Stratum (Plot size: 30')  Vitis aestivalis 5 Yes FACU  Hydrophytic  Vegetation  Present? Yes X No	2. Sparganium americanum	20	Yes	OBL	1				
Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.  Definitions of Vegetation Strata:  Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.  Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  Woody Vine Stratum (Plot size: 30')  Vitis aestivalis  Tree – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.  Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft in height.  Hydrophytic Vegetation Present? Yes X No	3. Equisetum arvense	2	No	FAC	data in Remarks or on a separate sheet)				
Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.  Definitions of Vegetation Strata:  Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.  Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  Woody Vine Stratum (Plot size: 30')  Vitis aestivalis 5 Yes FACU  Hydrophytic Vegetation Present? Yes X No	4				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)				
be present, unless disturbed or problematic.  Definitions of Vegetation Strata:  Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.  Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  Woody Vine Stratum (Plot size: 30' )  Vitis aestivalis 5 Yes FACU Hydrophytic  Hydrophytic Vegetation  Present? Yes X No	5				<sup>1</sup> Indicators of hydric soil and wetland hydrology must				
Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.  Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  Woody Vine Stratum (Plot size: 30')  Vitis aestivalis 5 Yes FACU Hydrophytic  Hydrophytic  Vegetation Present? Yes X No	6		<u> </u>						
Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.  Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  Woody Vine Stratum (Plot size: 30' )  Vitis aestivalis 5 Yes FACU Hydrophytic  Hydrophytic  Vegetation  Present? Yes X No	7				Definitions of Vegetation Strata:				
O. 1. Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.  Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  Woody Vine Stratum (Plot size: 30' )  Vitis aestivalis 5 Yes FACU  Hydrophytic  Vegetation Present? Yes X No	8				Tree – Woody plants 3 in. (7.6 cm) or more in				
Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.  Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  Woody Vine Stratum (Plot size: 30' )  Vitis aestivalis 5 Yes FACU Hydrophytic  Hydrophytic Vegetation Present? Yes X No	9								
2	10				Sapling/shrub – Woody plants less than 3 in. DBH				
Total Cover	11				and greater than or equal to 3.28 ft (1 m) tall.				
Woody Vine Stratum (Plot size: 30' )  . Vitis aestivalis  5 Yes FACU  Hydrophytic Vegetation Present? Yes X No	12				<b>Herb</b> – All herbaceous (non-woody) plants, regardless				
Woody vines — All woody vines greater than 3.28 ft in height.  Hydrophytic Vegetation Present? Yes X No		72	=Total Cover		of size, and woody plants less than 3.28 ft tall.				
Hydrophytic Vegetation Present? Yes X No	Woody Vine Stratum (Plot size:30')				Woody vines - All woody vines greater than 3.28 ft in				
Hydrophytic Vegetation Present? Yes X No	1. Vitis aestivalis	5	Yes	<u>FACU</u>	height.				
S.					Hydrophytic				
	3	-			Vegetation				
5=Total Cover	4	-			Present?				
		5	=Total Cover						
Remarks: (Include photo numbers here or on a separate sheet.)	Remarks: (Include photo numbers here or on a separate	rate sheet.)							

Sampling Point: CDZ-4 Wet

SOIL Sampling Point CDZ-4 Wet

Profile Desc Depth	ription: (Describe t Matrix	o the de	pth needed to docu Redox	onfirm the absence o	f indicators.)				
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks	
0-6	10YR 3/1	100					Loamy/Clayey		
6-20	10YR 5/1	70	10YR 5/6	30	С		Sandy	Prominent redox conce	ntrations
							Januy	Tromment redox conce	IIII alloris
				<u> </u>					
				<u> </u>	<u> </u>				
<sup>1</sup> Type: C=Co	oncentration, D=Depl	 etion RM	======================================	 IS=Masi	ked Sand	d Grains	<sup>2</sup> Location: P	L=Pore Lining, M=Matrix.	
Black Hi Hydroge	(A1) pipedon (A2)		Polyvalue Belo  MLRA 149B; Thin Dark Surfa High Chroma S Loamy Mucky I	) ace (S9) sands (S	) (LRR R 311) (LRI	, MLRA 1 R K, L)	2 cm Mu ? Coast P 49B) 5 cm Mu Polyvalu	or Problematic Hydric Soinck (A10) (LRR K, L, MLRA rairie Redox (A16) (LRR K, ricky Peat or Peat (S3) (LRI e Below Surface (S8) (LRR rk Surface (S9) (LRR K, L)	A 149B) L, R) R K, L, R)
X Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4)  X Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7)  Loamy Gleyed Matrix (F2) Depleted Matrix (F3) Redox Dark Surface (F6) Depleted Dark Surface (F7) Redox Depressions (F8) Marl (F10) (LRR K, L)						Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Red Parent Material (F21) Very Shallow Dark Surface (F22) Other (Explain in Remarks)			
	hydrophytic vegetati	on and w	etland hydrology mu	st be pr	esent, ur	nless dist	urbed or problematic.		
Type:	none	9							
Depth (ir							Hydric Soil Prese	nt? Yes <u>X</u> N	lo
	m is revised from Noi 2015 Errata. (http://w							CS Field Indicators of Hydri	ic Soils,



Wetland CDZ-4- View facing east



Wetland CDZ-4- Soils

Segment 3 - Package 2

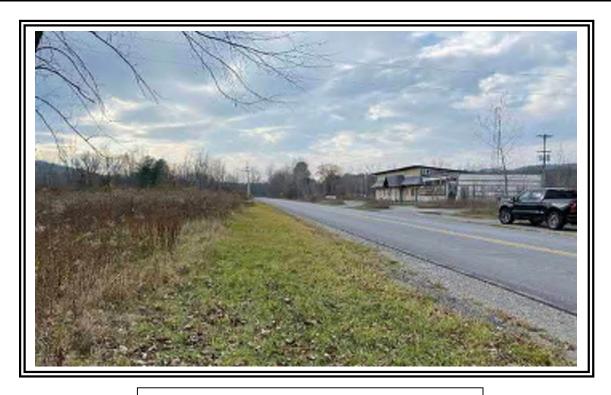
Project/Site: CHPE	City/County: Fort Ann/Washington Sampling Date: 11/18/21
Applicant/Owner: TDI	State: NY Sampling Point: CDZ-4 Upl
Investigator(s): N. Frazer, C. Einstein	Section, Township, Range:
Landform (hillside, terrace, etc.): flat Local	relief (concave, convex, none): none Slope %: 0
Subregion (LRR or MLRA): LRR R Lat: 43-26-17N	Long: 73-27-00W Datum: WGS 84
Soil Map Unit Name: Saprists, Aquepts, and Aquents (SB)	NWI classification: N/A
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes x No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly distur	· · · · · _ · _ ·
Are Vegetation , Soil , or Hydrology naturally problems	
SUMMARY OF FINDINGS – Attach site map showing sam	
	<u> </u>
Hydrophytic Vegetation Present?  Hydric Soil Present?  Yes No X  No X	Is the Sampled Area within a Wetland? Yes No _X_
Wetland Hydrology Present?  Yes  No X	If yes, optional Wetland Site ID:
Remarks: (Explain alternative procedures here or in a separate report.) Mowed roadside.	
LIVEROLOGY.	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) Water-Stained Leaves (I	<del></del>
High Water Table (A2)  Aquatic Fauna (B13)  Mad Banasite (B15)	Moss Trim Lines (B16)
Saturation (A3)  Marl Deposits (B15)  Liveten Market (B4)	Dry-Season Water Table (C2)
Water Marks (B1)  Hydrogen Sulfide Odor (	· · · · · · · · · · · · · · · · · · ·
Sediment Deposits (B2)  Oxidized Rhizospheres	
Drift Deposits (B3) Presence of Reduced In	
Algal Mat or Crust (B4)  Recent Iron Reduction in	
Iron Deposits (B5)  Thin Muck Surface (C7)	
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remar	
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No _x Depth (inches):	
Water Table Present? Yes No _x Depth (inches):	
Saturation Present? Yes No _x Depth (inches):	:   Wetland Hydrology Present? Yes No _X_
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	evious inspections), if available:
Remarks:	

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

	Absolute	Dominant	Indicator				
<u>Free Stratum</u> (Plot size:30')	% Cover	Species?	Status	Dominance Test worksheet:			
·				Number of Dominant Species			
<sup>2</sup>				That Are OBL, FACW, or FAC:1 (A)			
3				Total Number of Dominant			
l				Species Across All Strata: 2 (B)			
5				Percent of Dominant Species			
ö				That Are OBL, FACW, or FAC: 50.0% (A/B)			
<sup>7</sup>				Prevalence Index worksheet:			
		=Total Cover		Total % Cover of: Multiply by:			
Sapling/Shrub Stratum (Plot size:15')				OBL species 0 x 1 = 0			
l				FACW species 0 x 2 = 0			
2				FAC species 50 x 3 = 150			
3				FACU species 47 x 4 = 188			
				UPL species15 x 5 =75			
5				Column Totals: 112 (A) 413 (B			
3				Prevalence Index = B/A = 3.69			
,				Hydrophytic Vegetation Indicators:			
		=Total Cover		1 - Rapid Test for Hydrophytic Vegetation			
Herb Stratum (Plot size:5' )				2 - Dominance Test is >50%			
. Setaria pumila	45	Yes	FAC	3 - Prevalence Index is ≤3.0 <sup>1</sup>			
2. Trifolium pratense	8	No	FACU	4 - Morphological Adaptations <sup>1</sup> (Provide supporting			
3. Geranium maculatum	5	No	FACU	data in Remarks or on a separate sheet)			
Poa pratensis	25	Yes	FACU	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)			
5. Pastinaca sativa	10	No	UPL	- Indicators of hydric soil and wetland hydrology must			
6. Daucus carota	5	No	UPL	be present, unless disturbed or problematic.			
7. Galium boreale	5	No	FAC	Definitions of Vegetation Strata:			
3. Solidago canadensis	7	No	FACU	Tree – Woody plants 3 in. (7.6 cm) or more in			
7. Taraxacum officinale	2	No	FACU	diameter at breast height (DBH), regardless of height.			
10.				Sapling/shrub – Woody plants less than 3 in. DBH			
11.				and greater than or equal to 3.28 ft (1 m) tall.			
12.				Herb All barbassaus (non woody) plants, recordless			
	112	=Total Cover		Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.			
Noody Vine Stratum (Plot size: 30' )				Mandarda Allunadu ina pratadu than 2 20 ft in			
i				<b>Woody vines</b> – All woody vines greater than 3.28 ft in height.			
2.							
3.				Hydrophytic			
				Vegetation Present? Yes No X			
1.		=Total Cover					

SOIL Sampling Point CDZ-4 Upl

Profile Desc Depth	ription: (Describe to Matrix	the de		ı <mark>ment tl</mark> < Featur		tor or co	onfirm the absence of ind	icators.)
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
			Color (moist)		Турс			Remarks
0-5	10YR 3/2	100					Loamy/Clayey	
								_
<sup>1</sup> Type: C=Cc	ncentration, D=Deple	 etion. RM	=Reduced Matrix. M	 IS=Mas	ked Sand	Grains.	<sup>2</sup> Location: PL=Po	ore Lining, M=Matrix.
Hydric Soil I		,	,					oblematic Hydric Soils <sup>3</sup> :
Histosol			Polyvalue Belo	w Surfa	ce (S8) (I	LRR R,		A10) (LRR K, L, MLRA 149B)
	ipedon (A2)		MLRA 149B		. , ,			Redox (A16) ( <b>LRR K, L, R</b> )
Black His	stic (A3)		Thin Dark Surfa	ace (S9)	(LRR R	, MLRA 1	<b>49B</b> ) 5 cm Mucky	Peat or Peat (S3) (LRR K, L, R)
— Hydroger	n Sulfide (A4)		High Chroma S	ands (S	611) ( <b>LRF</b>	R K, L)	Polyvalue Be	low Surface (S8) ( <b>LRR K, L</b> )
Stratified	Layers (A5)		Loamy Mucky I	Mineral	(F1) ( <b>LRI</b>	R K, L)	Thin Dark Su	rface (S9) ( <b>LRR K, L</b> )
Depleted	Below Dark Surface	(A11)	Loamy Gleyed	Matrix (	F2)		Iron-Mangane	ese Masses (F12) ( <b>LRR K, L, R</b> )
Thick Da	rk Surface (A12)		Depleted Matri	x (F3)			Piedmont Flo	odplain Soils (F19) ( <b>MLRA 149B</b> )
Sandy M	ucky Mineral (S1)		Redox Dark Su	•	•		Mesic Spodio	(TA6) ( <b>MLRA 144A, 145, 149B</b> )
	leyed Matrix (S4)		Depleted Dark				Red Parent N	, ,
	edox (S5)		Redox Depress	`	8)			Dark Surface (F22)
	Matrix (S6)		Marl (F10) ( <b>LR</b>	<b>R K, L</b> )			Other (Explai	n in Remarks)
Dark Sur	face (S7)							
3Indianton of	huduanhutia vasatati					olooo diat	unhad as muchlamatia	
	ayer (if observed):	on and w	etiana nyarology mu	ist be pr	esent, ur	ness alst	urbed or problematic.	
Type:	ayer (ii observed). stone/gr	avol						
-								
Depth (in	cnes):	5					Hydric Soil Present?	Yes No _X_
	m is revised from Nor 2015 Errata. (http://w							ield Indicators of Hydric Soils,



**Upland CDZ-4- View facing southwest** 



**Upland CDZ-4- Soils** 

Segment 3 - Package 2

## **SITE PHOTOGRAPHS**

Project/Site: CHPE	City/County: Fort Ann/Washington Sampling Date: 11/18/21
Applicant/Owner: TDI	State: NY Sampling Point: CEZ-5 Wet
Investigator(s): N. Frazer, C. Einstein	Section, Township, Range:
Landform (hillside, terrace, etc.): flat Local	relief (concave, convex, none): none Slope %: 0
Subregion (LRR or MLRA): LRR R Lat: 43-26-11N	Long: 73-27-07W Datum: WGS 84
Soil Map Unit Name: Orthents and Psamments (OP)	NWI classification: PSS
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes x No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly distur	rbed? Are "Normal Circumstances" present? Yes x No
Are Vegetation, Soil, or Hydrology naturally problems	
SUMMARY OF FINDINGS – Attach site map showing sam	pling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes X No	Is the Sampled Area
Hydric Soil Present? Yes X No	within a Wetland? Yes X No
Wetland Hydrology Present? Yes X No	If yes, optional Wetland Site ID:
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
X Surface Water (A1) X Water-Stained Leaves (I	· · · · · · · · · · · · · · · · · · ·
X High Water Table (A2) Aquatic Fauna (B13) And Deposits (B45)	Moss Trim Lines (B16)
X Saturation (A3) — Marl Deposits (B15)	Dry-Season Water Table (C2)
Water Marks (B1) — Hydrogen Sulfide Odor ( Sediment Deposits (B2) — Oxidized Rhizospheres of	· · · · · · · · · · · · · · · · · · ·
Sediment Deposits (B2)  Drift Deposits (B3)  Sediment Deposits (B2)  Presence of Reduced Inc.	
Algal Mat or Crust (B4)  Recent Iron Reduction in	
Iron Deposits (B5)  Thin Muck Surface (C7)	· / — · · /
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remar	
Sparsely Vegetated Concave Surface (B8)	X FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes x No Depth (inches):	. 1
Water Table Present? Yes x No Depth (inches):	<del></del>
Saturation Present? Yes x No Depth (inches):	
(includes capillary fringe)	Tes Noticinal Hydrology Freschit:
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	evious inspections), if available:
	, ,
Remarks:	

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

	Absolute	Dominant	Indicator					
Free Stratum (Plot size:)	% Cover	Species?	Status	Dominance Test worksheet:				
·				Number of Dominant Species				
				That Are OBL, FACW, or FAC:3 (A)				
				Total Number of Dominant				
•				Species Across All Strata: 4 (B)				
i				Percent of Dominant Species That Are OBL, FACW, or FAC: 75.0% (A/E				
	· <del></del>			Prevalence Index worksheet:				
	·	=Total Cover		Total % Cover of: Multiply by:				
sapling/Shrub Stratum (Plot size: 15'	)			OBL species 2 x 1 = 2				
. Cornus amomum	40	Yes	FACW	FACW species 55 x 2 = 110				
. Cornus racemosa	20	Yes	FAC	FAC species 20 x 3 = 60				
Lonicera tatarica	10	No	FACU	FACU species 18 x 4 = 72				
				UPL species 0 x 5 = 0				
 i.				Column Totals: 95 (A) 244 (E				
				Prevalence Index = B/A = 2.57				
·	·			Hydrophytic Vegetation Indicators:				
	70	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation				
erb Stratum (Plot size: 5' )				X 2 - Dominance Test is >50%				
. Lonicera tatarica	8	Yes	FACU	X 3 - Prevalence Index is ≤3.0 <sup>1</sup>				
. Cornus amomum	10	Yes	FACW	-   —— 4 - Morphological Adaptations <sup>1</sup> (Provide supportin				
s. Juncus effusus	2	No No	OBL	data in Remarks or on a separate sheet)				
. Mentha arvensis	3	No No	FACW	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)				
i. Solidago gigantea	2	No	FACW	·   <del></del>				
			17.011	<ul> <li>Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.</li> </ul>				
				Definitions of Vegetation Strata:				
				Tree – Woody plants 3 in. (7.6 cm) or more in				
·				diameter at breast height (DBH), regardless of heigh				
0				Sapling/shrub – Woody plants less than 3 in. DBH				
1	<u> </u>			and greater than or equal to 3.28 ft (1 m) tall.				
2				Herb – All herbaceous (non-woody) plants, regardles				
	25	=Total Cover		of size, and woody plants less than 3.28 ft tall.				
Voody Vine Stratum (Plot size:30'	)			Woody vines - All woody vines greater than 3.28 ft				
·				height.				
				Hydrophytic				
s				Vegetation				
•	<u> </u>			Present?				
		=Total Cover						

SOIL Sampling Point CEZ-5 Wet

Profile Desc Depth	ription: (Describe t Matrix	o the de		ı <b>ment tl</b> < Featur		ator or co	onfirm the absence of	indicators.)
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-3	10YR 3/1	100					Loamy/Clayey	
3-20	10YR 4/1	90	10YR 4/4	10			Sandy	Distinct redox concentrations
3-20 	10YR 4/1	90	10YR 4/4				Sandy	Distinct redox concentrations
1							2	
'Type: C=Co	oncentration, D=Deple	etion, RM	1=Reduced Matrix, N	IS=Mas	ked Sand	d Grains.		=Pore Lining, M=Matrix.  r Problematic Hydric Soils <sup>3</sup> :
Histosol Histic Ep Black His Hydroge Stratified X Depleted Thick Da Sandy M Sandy G X Sandy R ? Stripped Dark Sur	(A1) pipedon (A2) stic (A3) n Sulfide (A4) I Layers (A5) I Below Dark Surface ark Surface (A12) lucky Mineral (S1) eleyed Matrix (S4) edox (S5) Matrix (S6) fface (S7)		Polyvalue Belor MLRA 149B; Thin Dark Surfa High Chroma S Loamy Mucky I Loamy Gleyed Depleted Matrix Redox Dark Su Depleted Dark Redox Depress Marl (F10) (LRI	on the state of th	(LRR R 611) (LRI (F1) (LRI F2) 66) (F7)	, MLRA 1 R K, L) R K, L)	2 cm Muc ? Coast Pra 49B) 5 cm Muc Polyvalue Thin Dark Iron-Mane Piedmont Mesic Sp Red Pare Very Sha Other (Ex	ck (A10) (LRR K, L, MLRA 149B) airie Redox (A16) (LRR K, L, R) cky Peat or Peat (S3) (LRR K, L, R) e Below Surface (S8) (LRR K, L) c Surface (S9) (LRR K, L) ganese Masses (F12) (LRR K, L, R) f Floodplain Soils (F19) (MLRA 149B) odic (TA6) (MLRA 144A, 145, 149B) ont Material (F21) flow Dark Surface (F22) cplain in Remarks)
	, , , ,	on and w	etland hydrology mu	st be pr	esent, ur	nless dist	urbed or problematic.	
Type:	_ayer (if observed): none	9						
Depth (ir							Hydric Soil Presen	t? Yes <u>X</u> No
	m is revised from Noi 2015 Errata. (http://w							S Field Indicators of Hydric Soils,



Wetland CEZ-5- View facing southeast



Wetland CEZ-5- Soils

Segment 3 - Package 2

## **SITE PHOTOGRAPHS**

Project/Site: CHPE	City/County: Fort Ann/Washington Sampling Date: 11/18/21
Applicant/Owner: TDI	State: NY Sampling Point: CFZ-1 Wet
Investigator(s): N. Frazer, C. Einstein	Section, Township, Range:
	relief (concave, convex, none): concave Slope %: 0
Subregion (LRR or MLRA): LRR R Lat: 43-26-10N	Long: 73-27-08W Datum: WGS 84
Soil Map Unit Name: Orthents and Psamments (OP)	NWI classification: PSS
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes x No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly distur	rbed? Are "Normal Circumstances" present? Yes x No
Are Vegetation, Soil, or Hydrologynaturally problems	atic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sam	pling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes X No	Is the Sampled Area
Hydric Soil Present? Yes X No	within a Wetland? Yes X No
Wetland Hydrology Present? Yes X No	If yes, optional Wetland Site ID:
Isolated wetland within a parking area.	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
X Surface Water (A1) X Water-Stained Leaves (I	B9) Drainage Patterns (B10)
X High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)
Saturation (A3) Marl Deposits (B15)	Dry-Season Water Table (C2)
Water Marks (B1) Hydrogen Sulfide Odor (	· · · · · · · · · · · · · · · · · · ·
Sediment Deposits (B2)  Oxidized Rhizospheres of the control of th	
Drift Deposits (B3) Presence of Reduced Iro	
Algal Mat or Crust (B4)  Recent Iron Reduction in  This Muck Surface (C7)	
Iron Deposits (B5) ——Thin Muck Surface (C7) ——Other (Explain in Perper	
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remar Sparsely Vegetated Concave Surface (B8)	rks) Microtopographic Relief (D4) X FAC-Neutral Test (D5)
Field Observations:	4
Surface Water Present? Yes x No Depth (inches):	
Water Table Present?  Yes x No Depth (inches):  Saturation Present?  Yes x No Depth (inches):	
Saturation Present? Yes x No Depth (inches): (includes capillary fringe)	:0 Wetland Hydrology Present? Yes X No
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	
Describe Necorded Bata (Stream gauge, monitoring well, acrial priotos, pre	winds inspections), if available.
Remarks:	

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

	Absolute	Dominant	Indicator					
Free Stratum (Plot size:30')	% Cover	Species?	Status	Dominance Test worksheet:				
·				Number of Dominant Species				
				That Are OBL, FACW, or FAC: 4 (A)				
				Total Number of Dominant Species Across All Strata: 4 (B)				
· i.								
5.				Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B				
				Prevalence Index worksheet:				
		=Total Cover		Total % Cover of: Multiply by:				
Sapling/Shrub Stratum (Plot size: 15' )		•		OBL species 5 x 1 = 5				
. Cornus amomum	55	Yes	FACW	FACW species 150 x 2 = 300				
. Spiraea alba	10	No	FACW	FAC species 2 x 3 = 6				
. Ulmus americana	20	Yes	FACW	FACU species 0 x 4 = 0				
omas amendana		103	TAOW	UPL species 0 x 5 = 0				
<u> </u>				' — —				
		·		Column Totals: 157 (A) 311 (B				
•				Prevalence Index = B/A = 1.98				
		T.1.10		Hydrophytic Vegetation Indicators:				
	85	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation				
lerb Stratum (Plot size: 5' )				X 2 - Dominance Test is >50%				
. Onoclea sensibilis	30	Yes	FACW	X 3 - Prevalence Index is ≤3.0¹				
2. Juncus effusus	5	. <u>No</u>	OBL_	4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)				
3. Lysimachia nummularia	5	No	FACW_					
. Cornus amomum	30	Yes	FACW	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)				
j				<ul> <li>Indicators of hydric soil and wetland hydrology mus</li> </ul>				
S				be present, unless disturbed or problematic.				
·				Definitions of Vegetation Strata:				
3				Tree – Woody plants 3 in. (7.6 cm) or more in				
				diameter at breast height (DBH), regardless of height				
0				Sapling/shrub – Woody plants less than 3 in. DBH				
1				and greater than or equal to 3.28 ft (1 m) tall.				
2.				Herb – All herbaceous (non-woody) plants, regardles				
	70	=Total Cover		of size, and woody plants less than 3.28 ft tall.				
Noody Vine Stratum (Plot size: 30')		•		Manda de dina Allemande dina anno de dina a 200 fili				
Clematis virginiana	2	No	FAC	<b>Woody vines</b> – All woody vines greater than 3.28 ft in height.				
·								
3.				Hydrophytic				
I.				Vegetation Present? Yes X No				
··· -		=Total Cover		1.1555MI 1.15 <u>X</u> 1.15 <u>— — — — — — — — — — — — — — — — — — —</u>				
	_	- Total Cover						

SOIL Sampling Point CFZ-1 Wet

Profile Desc Depth	ription: (Describe t Matrix	o the de		ı <b>ment tl</b> < Featur		ator or co	onfirm the absence o	f indicators.)
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-5	10YR 2/1	100					Mucky Sand	
5-20	10YR 5/1	60	10YR 5/8	40	С	М	Sandv	Prominent redox concentrations
5-20 	10YR 5/1	60	10YR 5/8				Sandy	Prominent redox concentrations
							_	
1 <sub>Type: C=C</sub>	oncentration, D=Deple	otion DM	1-Poduced Matrix M				<sup>2</sup> l ocation: F	L=Pore Lining, M=Matrix.
Hydric Soil		ellon, Riv	i-Reduced Matrix, iv	io-ivias	keu Sand	Grains.		or Problematic Hydric Soils <sup>3</sup> :
Histosol Histic Ep Black Hi Hydroge Stratified Phick Da X Sandy M Sandy G X Sandy R Phick Da X Sandy R Phick Da X Sandy R Phick Da R Stripped Phick Da R R R R R R R R R R R R R R R R R R R	(A1) pipedon (A2) stic (A3) n Sulfide (A4) I Layers (A5) I Below Dark Surface ark Surface (A12) lucky Mineral (S1) eleyed Matrix (S4) edox (S5) Matrix (S6) face (S7)	on and w	Polyvalue Belo  MLRA 149B; Thin Dark Surfa  High Chroma S  Loamy Mucky I  Loamy Gleyed  Depleted Matrix  Redox Dark Su  Depleted Dark  Redox Depress  Marl (F10) (LRI	) ace (S9) bands (S Mineral Matrix ( x (F3) urface (F Surface sions (F) R K, L)	(LRR R 611) (LRI (F1) (LRI F2) 66) (F7)	, MLRA 1 R K, L) R K, L)	2 cm Mu ? Coast P 49B) 5 cm Mu Polyvalu Thin Dai Iron-Mar Piedmor Mesic S Red Par Very Sh	cick (A10) (LRR K, L, MLRA 149B) rairie Redox (A16) (LRR K, L, R) rairie Redox (A16) (LRR K, L, R) rairie Redox (S3) (LRR K, L, R) rairie Below Surface (S8) (LRR K, L) rick Surface (S9) (LRR K, L) riganese Masses (F12) (LRR K, L, R) ritt Floodplain Soils (F19) (MLRA 149B) redoic (TA6) (MLRA 144A, 145, 149B) rent Material (F21) railiow Dark Surface (F22) rickplain in Remarks)
Depth (ir		<u>-</u>					Hydric Soil Prese	nt? Yes <u>X</u> No
	m is revised from Noi 2015 Errata. (http://w							CS Field Indicators of Hydric Soils,



Wetland CFZ-1- View facing southeast



Wetland CFZ-1- Soils

Segment 3 - Package 2

## **SITE PHOTOGRAPHS**

Project/Site: CHPE	City/County: Fort Ann/Washington Sampling Date: 11/18/21
Applicant/Owner: TDI	State: NY Sampling Point: Upl CEZ/CFZ
Investigator(s): N. Frazer, C. Einstein	Section, Township, Range:
- ' '	relief (concave, convex, none): none Slope %: 0
Subregion (LRR or MLRA): LRR R Lat: 43-26-11N	Long: 73-27-07W Datum: WGS 84
Soil Map Unit Name: Orthents and Psamments (OP)	NWI classification: N/A
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes x No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly distur	
Are Vegetation, Soil, or Hydrology naturally problems	atic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sam	pling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes X No	Is the Sampled Area
Hydric Soil Present? Yes No X	within a Wetland? Yes No X
Wetland Hydrology Present? Yes No _X	If yes, optional Wetland Site ID:
Mowed roadside data point for Upl CEZ-5 and CFZ-1.	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) Water-Stained Leaves (I	B9) Drainage Patterns (B10)
High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)
Saturation (A3) — Marl Deposits (B15)	Dry-Season Water Table (C2)
Water Marks (B1) Hydrogen Sulfide Odor (	(C1) Crayfish Burrows (C8)
Sediment Deposits (B2)  Oxidized Rhizospheres of	on Living Roots (C3) Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B3) Presence of Reduced Iro	
Algal Mat or Crust (B4)  Recent Iron Reduction ir	
Iron Deposits (B5) Thin Muck Surface (C7)	
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remar	
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No _x Depth (inches):	: <u></u>
Water Table Present? Yes No _x Depth (inches):	: <u></u>
Saturation Present? Yes No x Depth (inches):	: Wetland Hydrology Present? Yes No _X
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	evious inspections), if available:
Remarks:	
1	

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

? Status Dominance Test worksheet:
<ul> <li>Number of Dominant Species</li> </ul>
That Are OBL, FACW, or FAC: 3 (A)
<ul><li>Total Number of Dominant</li><li>Species Across All Strata: 3 (B)</li></ul>
(B)
Percent of Dominant Species
That Are OBL, FACW, or FAC: 100.0% (A/B
Prevalence Index worksheet:
er Total % Cover of: Multiply by:
OBL species 0 x 1 = 0
FAC FACW species0 x 2 =0
FAC species75 x 3 =225
FACU species 30 x 4 = 120
UPL species 7 x 5 = 35
Column Totals: 112 (A) 380 (B
Prevalence Index = B/A = 3.39
Hydrophytic Vegetation Indicators:
er 1 - Rapid Test for Hydrophytic Vegetation
X 2 - Dominance Test is >50%
3 - Prevalence Index is ≤3.0 <sup>1</sup>
4 - Morphological Adaptations¹ (Provide supportine data in Remarks or on a separate sheet)
_ <u> </u>
Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
<ul> <li>FACU Indicators of hydric soil and wetland hydrology must</li> </ul>
UPL be present, unless disturbed or problematic.
FACU Definitions of Vegetation Strata:
FACU Tree – Woody plants 3 in. (7.6 cm) or more in
FACU diameter at breast height (DBH), regardless of height
Capling/abrub Woody plants loss than 2 in DDL
<ul> <li>Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.</li> </ul>
<ul> <li>Herb – All herbaceous (non-woody) plants, regardless</li> <li>of size, and woody plants less than 3.28 ft tall.</li> </ul>
Woody vines – All woody vines greater than 3.28 ft in
height.
Hydrophytic
Vegetation
Present?   Yes X   No
er
ove

		o the de				itor or co	onfirm the absence of i	ndicators.)
Depth	Matrix			x Featur		. 2	<b>-</b> .	
(inches)	Color (moist)		Color (moist)		Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-10	10YR 3/2	100					Loamy/Clayey	
								<del></del>
-								
<sup>1</sup> Type: C=C	oncentration, D=Deple	etion RN	/=Reduced Matrix N	 IS=Mas	ked Sand	Grains.	<sup>2</sup> l ocation: Pl =	Pore Lining, M=Matrix.
Hydric Soil		<i>y</i>	T Troduced Waters, 10	io mao	nou ounc	- Oramor		Problematic Hydric Soils <sup>3</sup> :
Histosol			Polyvalue Belo	w Surfa	ce (S8) (I	LRR R.		(A10) (LRR K, L, MLRA 149B)
	pipedon (A2)		MLRA 149B		00 (00) (.	,		rie Redox (A16) ( <b>LRR K, L, R</b> )
	stic (A3)		Thin Dark Surfa	•	(LRR R	MLRA 1		xy Peat or Peat (S3) ( <b>LRR K, L, R</b> )
	n Sulfide (A4)		High Chroma S					Below Surface (S8) (LRR K, L)
	d Layers (A5)		Loamy Mucky					Surface (S9) ( <b>LRR K, L</b> )
	d Below Dark Surface	(A11)	Loamy Gleyed			· · · · · · · · · · · · · · · · · · ·		anese Masses (F12) (LRR K, L, R)
	ark Surface (A12)	(, ,	Depleted Matri		/			Floodplain Soils (F19) ( <b>MLRA 149B</b> )
	lucky Mineral (S1)		Redox Dark Su		·6)			dic (TA6) ( <b>MLRA 144A, 145, 149B</b> )
	Gleyed Matrix (S4)		Depleted Dark		•			t Material (F21)
	ledox (S5)		Redox Depress					ow Dark Surface (F22)
	Matrix (S6)		Marl (F10) ( <b>LR</b>	•	-,			plain in Remarks)
	rface (S7)			, —,				,,
<u> </u>	11465 (51)							
<sup>3</sup> Indicators o	f hydrophytic vegetation	on and w	vetland hydrology mu	ıst be pr	esent ur	nless dist	urbed or problematic	
	Layer (if observed):	orr arra v	rodana nyarology me	,ос во р	555111, 41	nooc dict	problemation	
Type:	grave	el le						
• • • • • • • • • • • • • • • • • • • •							Usalaia Cail Dagagast	. Van Na V
Depth (ii	iches).	10					Hydric Soil Present?	? Yes No _X
Remarks:								
								Field Indicators of Hydric Soils,
version 7.0,	2015 Errata. (http://w	ww.nrcs.	usua.gov/internet/F3	SE_DOC	OWENT	3/IIICS 14.	2p2_051295.docx)	



**Upland CEZ-5- View facing southwest** 



**Upland CEZ-5- Soils** 

Segment 3 - Package 2

### **SITE PHOTOGRAPHS**



**Upland CFZ-1- View facing southwest** 



**Upland CFZ-1- Soils** 

# Segment 3 - Package 2

## **SITE PHOTOGRAPHS**

Project/Site: CHPE	City/County: Fort Ann/Washington Sampling Date: 11/18/21
Applicant/Owner: TDI	State: NY Sampling Point: cgz-3 Wet
Investigator(s): N. Frazer, C. Einstein	Section, Township, Range:
Landform (hillside, terrace, etc.): flat Local	relief (concave, convex, none): none Slope %: 0
Subregion (LRR or MLRA): LRR R Lat: 43-26-11N	Long: 73-27-10W Datum: WGS 84
Soil Map Unit Name: Orthents and Psamments (OP)	NWI classification: PFO
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes x No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly distur	
Are Vegetation , Soil , or Hydrology naturally problems	
SUMMARY OF FINDINGS – Attach site map showing sam	
Hydrophytic Vegetation Present? Yes X No	Is the Sampled Area
Hydric Soil Present? Yes X No	within a Wetland? Yes X No
Wetland Hydrology Present? Yes X No No	If yes, optional Wetland Site ID:
Remarks: (Explain alternative procedures here or in a separate report.)	
HADBOLOGA	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)  Surface Water (A1)  Water Steinard Leaves (A2)	Surface Soil Cracks (B6)
Surface Water (A1) Water-Stained Leaves ( X High Water Table (A2) Aquatic Fauna (B13)	(B9) Drainage Patterns (B10)  Moss Trim Lines (B16)
X Saturation (A3)  Aquatic Faulia (B13)  Marl Deposits (B15)	Dry-Season Water Table (C2)
Water Marks (B1)  Water Marks (B1)  Hydrogen Sulfide Odor of the state	<del></del>
Sediment Deposits (B2)  Sediment Deposits (B2)  Oxidized Rhizospheres	
Drift Deposits (B3)  Presence of Reduced Ir	
Algal Mat or Crust (B4)  Recent Iron Reduction is	
Iron Deposits (B5)  Thin Muck Surface (C7)	
Inundation Visible on Aerial Imagery (B7)  Other (Explain in Remainder)	
Sparsely Vegetated Concave Surface (B8)	X FAC-Neutral Test (D5)
Field Observations:	<del></del>
Surface Water Present? Yes No x Depth (inches)	:
Water Table Present? Yes x No Depth (inches)	
Saturation Present? Yes x No Depth (inches)	: 8 Wetland Hydrology Present? Yes X No
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	evious inspections), if available:
Develop	
Remarks:	

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

<u>ree Stratum</u> (Plot size: 30' )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:			
Ulmus americana	70	Yes	FACW				
. Populus deltoides	20	Yes	FAC	Number of Dominant Species That Are OBL, FACW, or FAC:3(A			
				Total Number of Dominant			
•				Species Across All Strata: 5 (E			
5				Percent of Dominant Species			
S				That Are OBL, FACW, or FAC: 60.0% (A			
·				Prevalence Index worksheet:			
	90	=Total Cover		Total % Cover of: Multiply by:			
Sapling/Shrub Stratum (Plot size:15')	)			OBL species 2 x 1 = 2			
. Lonicera tatarica	50	Yes	FACU	FACW species 140 x 2 = 280			
. Cornus racemosa	10	No	FAC	FAC species 32 x 3 = 96			
. Ulmus americana	5	No	FACW	FACU species70 x 4 =280			
i				UPL species0 x 5 =0			
i				Column Totals: 244 (A) 658			
i				Prevalence Index = B/A = 2.70			
				Hydrophytic Vegetation Indicators:			
	65	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation			
Herb Stratum (Plot size: 5' )		-		X 2 - Dominance Test is >50%			
Onoclea sensibilis	60	Yes	FACW	X 3 - Prevalence Index is ≤3.0 <sup>1</sup>			
2. Lonicera tatarica	20	Yes	FACU	4 - Morphological Adaptations <sup>1</sup> (Provide supportin			
3. Solidago gigantea	5	No No	FACW	data in Remarks or on a separate sheet)			
I. Equisetum arvense	2	No No	FAC	<ul> <li>Problematic Hydrophytic Vegetation<sup>1</sup> (Explain)</li> </ul>			
5. Eutrochium maculatum	2	No	OBL	<sup>1</sup> Indicators of hydric soil and wetland hydrology mu			
S				be present, unless disturbed or problematic.			
				Definitions of Vegetation Strata:			
3				Tree – Woody plants 3 in. (7.6 cm) or more in			
)				diameter at breast height (DBH), regardless of height			
0				Sapling/shrub – Woody plants less than 3 in. DBI			
11				and greater than or equal to 3.28 ft (1 m) tall.			
2	-			Herb – All herbaceous (non-woody) plants, regard			
	89	=Total Cover		of size, and woody plants less than 3.28 ft tall.			
Noody Vine Stratum (Plot size:30')	1			Woody vines – All woody vines greater than 3.28			
1				height.			
2		<u> </u>		Hydrophytic			
3				Vegetation			
ł				Present?			
		=Total Cover					

SOIL Sampling Point CGZ-3 Wet

Profile Descripe	ription: (Describe t Matrix	o the de		<b>ıment tl</b> k Featur		ator or co	onfirm the absence of i	ndicators.)
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-8	10YR 2/1	100			-71		Loamy/Clayey	
8-14	10YR 5/2		10YR 4/4	10				Distinct redox concentrations
0-14	1018 5/2	90	1018 4/4	10	<u> </u>	M_	Loamy/Clayey	Distinct redox concentrations
								_
1			A. De desert Matrice A				21 C	Barrellinia M. Matri
Hydric Soil I	ncentration, D=Deple	etion, Riv	/I=Reduced Matrix, N	15=IVIas	ked Sand	Grains.		Problematic Hydric Soils <sup>3</sup> :
Histosol (			Polyvalue Belo	w Surfa	ce (S8) (	I RR R		(A10) (LRR K, L, MLRA 149B)
	ipedon (A2)		MLRA 149B		00 (00) (	,		rie Redox (A16) ( <b>LRR K, L, R</b> )
Black His			Thin Dark Surfa		(LRR R	, MLRA 1		ky Peat or Peat (S3) ( <b>LRR K, L, R</b> )
Hydroger	n Sulfide (A4)		High Chroma S	Sands (S	311) ( <b>LRI</b>	R K, L)	Polyvalue	Below Surface (S8) ( <b>LRR K, L</b> )
Stratified	Layers (A5)		Loamy Mucky			R K, L)		Surface (S9) ( <b>LRR K, L</b> )
	Below Dark Surface	(A11)	Loamy Gleyed		F2)			anese Masses (F12) ( <b>LRR K, L, R</b> )
	rk Surface (A12)		X Depleted Matri					Floodplain Soils (F19) (MLRA 149B)
	ucky Mineral (S1)		Redox Dark Su	•	,			dic (TA6) ( <b>MLRA 144A, 145, 149B</b> )
	leyed Matrix (S4) edox (S5)		— Depleted Dark Redox Depress					it Material (F21) ow Dark Surface (F22)
	Matrix (S6)		Marl (F10) (LR	,	3)			plain in Remarks)
Dark Sur				, —,				,
_	,							
<sup>3</sup> Indicators of	hydrophytic vegetati	on and v	/etland hydrology mι	ıst be pr	esent, ur	nless dist	urbed or problematic.	
Restrictive L	ayer (if observed):							
Type: _	Rocl	k						
Depth (in	ches):	14					Hydric Soil Present	? Yes <u>X</u> No
	n is revised from Nor 2015 Errata. (http://w							Field Indicators of Hydric Soils,



Wetland CGZ-3- View facing northwest



Wetland CGZ-3- Soils

Segment 3 - Package 2

### **SITE PHOTOGRAPHS**

Project/Site: CHPE	City/County: Fort Ann/Washington Sampling Date: 11/18/21						
Applicant/Owner: TDI	State: NY Sampling Point: CGZ-3 Upl						
Investigator(s): N. Frazer, C. Einstein	Section, Township, Range:						
Landform (hillside, terrace, etc.): flat Local	relief (concave, convex, none): none Slope %: 0						
Subregion (LRR or MLRA): LRR R Lat: 43-26-11N	Long: 73-27-10W Datum: WGS 84						
Soil Map Unit Name: Orthents and Psamments (OP)	NWI classification: N/A						
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes x No (If no, explain in Remarks.)						
Are Vegetation, Soil, or Hydrology significantly distur	<del></del>						
Are Vegetation , Soil , or Hydrology naturally problems							
SUMMARY OF FINDINGS – Attach site map showing sam	npling point locations, transects, important features, etc.						
Hydrophytic Vegetation Present? Yes No X	Is the Sampled Area						
Hydric Soil Present?  Yes  No X	within a Wetland? Yes No X						
Wetland Hydrology Present? Yes No X	If yes, optional Wetland Site ID:						
Remarks: (Explain alternative procedures here or in a separate report.)  Mowed roadside.							
HYDROLOGY							
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)						
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)						
Surface Water (A1) Water-Stained Leaves (	(B9) Drainage Patterns (B10)						
High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)						
Saturation (A3) Marl Deposits (B15)	Dry-Season Water Table (C2)						
Water Marks (B1) Hydrogen Sulfide Odor (	(C1) Crayfish Burrows (C8)						
Sediment Deposits (B2)  Oxidized Rhizospheres	on Living Roots (C3) Saturation Visible on Aerial Imagery (C9)						
Drift Deposits (B3) Presence of Reduced In	ron (C4) Stunted or Stressed Plants (D1)						
Algal Mat or Crust (B4)Recent Iron Reduction in	in Tilled Soils (C6) Geomorphic Position (D2)						
Iron Deposits (B5)Thin Muck Surface (C7)	Shallow Aquitard (D3)						
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remar	rks)Microtopographic Relief (D4)						
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)						
Field Observations:							
Surface Water Present? Yes No _x Depth (inches)	r						
Water Table Present? Yes No _x Depth (inches)	r						
Saturation Present? Yes No _x Depth (inches)	: Wetland Hydrology Present? Yes No _X						
(includes capillary fringe)							
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	evious inspections), if available:						
Remarks:							

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

Tree Stratum (Plot size: 30' )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. 2.				Number of Dominant Species That Are OBL, FACW, or FAC:1(A)
3.         4.				Total Number of Dominant Species Across All Strata: (B)
5.         6.				Percent of Dominant Species That Are OBL, FACW, or FAC:50.0%(A/B)
7				Prevalence Index worksheet:
		=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15' )		-		OBL species 0 x 1 = 0
1.				FACW species 0 x 2 = 0
0				FAC species 60 x 3 = 180
2				FACU species 35 x 4 = 140
1				UPL species 0 x 5 = 0
· -				
5.				Column Totals: 95 (A) 320 (B)
6.				Prevalence Index = B/A = 3.37
7		<del></del>		Hydrophytic Vegetation Indicators:
		=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5')				2 - Dominance Test is >50%
1. Setaria pumila	45	Yes	FAC	3 - Prevalence Index is ≤3.0 <sup>1</sup>
2. Lotus corniculatus	20	Yes	FACU	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
3. Trifolium repens	15	No	FACU	data in Remarks or on a separate sheet)
4. Galium boreale	15	No	FAC	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5.				1
6.				<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
7.				Definitions of Vegetation Strata:
8				
9.				Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
-				diameter at breast neight (DBH), regardless of neight.
11.				Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
12				Herb – All herbaceous (non-woody) plants, regardless
	95	=Total Cover		of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size:) 1.				Woody vines – All woody vines greater than 3.28 ft in height.
2				
				Hydrophytic
				Vegetation
4				Present? Yes No _X
		=Total Cover		
Remarks: (Include photo numbers here or on a separ	rate sheet.)			

Sampling Point: CGZ-3 Upl

SOIL Sampling Point CGZ-3 Upl

		o the de				itor or co	onfirm the absence of in	dicators.)
Depth (inches)	Matrix Color (moist)	%	Color (moist)	x Featur %	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-4	10YR 2/1	100	Color (molet)		1900		Loamy/Clayey	with gravel
4.7								
4-7	10YR 3/3	100					Loamy/Clayey	with gravel
			-					
		etion, RM	1=Reduced Matrix, M	/IS=Mas	ked Sand	d Grains.		Pore Lining, M=Matrix.
Hydric Soil Inc			5 5.		(00) (			Problematic Hydric Soils <sup>3</sup> :
— Histosol (A			Polyvalue Belo		ce (S8) (I	LRR R,		(A10) (LRR K, L, MLRA 149B)
Histic Epip Black Histi			MLRA 149B Thin Dark Surfa	•	) (I PP P	MI DA 1		e Redox (A16) ( <b>LRR K, L, R</b> ) Peat or Peat (S3) ( <b>LRR K, L, R</b> )
	Sulfide (A4)		High Chroma S				· —	elow Surface (S8) (LRR K, L)
Stratified L			Loamy Mucky					urface (S9) ( <b>LRR K, L</b> )
	Below Dark Surface	(A11)	Loamy Gleyed			, ,		nese Masses (F12) ( <b>LRR K, L, R</b> )
	Surface (A12)		Depleted Matri					loodplain Soils (F19) ( <b>MLRA 149B</b> )
Sandy Mud	cky Mineral (S1)		Redox Dark Su	ırface (F	<sup>-</sup> 6)		Mesic Spod	ic (TA6) ( <b>MLRA 144A, 145, 149B</b> )
	yed Matrix (S4)		Depleted Dark					Material (F21)
Sandy Red			Redox Depress	•	8)			w Dark Surface (F22)
Stripped M			Marl (F10) ( <b>LR</b>	<b>R</b> K, L)			Other (Expla	ain in Remarks)
Dark Surfa	ice (S7)							
<sup>3</sup> Indicators of h	vdrophytic vegetati	on and w	etland hydrology mu	ıst be pr	resent ur	nless dist	urbed or problematic.	
	yer (if observed):	on and v	otiana nyarology me	101 DO PI	000111, 01	nooc dict	arboa or problemate.	
Type:	rock							
Depth (incl	hes):	7					Hydric Soil Present?	Yes No _X_
Remarks:								
								Field Indicators of Hydric Soils,
Version 7.0, 20	)15 Errata. (http://w	ww.nrcs.	usda.gov/Internet/FS	SE_DOO	CUMENT	S/nrcs14	2p2_051293.docx)	



**Upland CGZ-3- View facing northeast** 



**Upland CGZ-3- Soils** 

Segment 3 - Package 2

## **SITE PHOTOGRAPHS**

Project/Site: CHPE-Package	e 2- MP 120.9		City/County: Fort Ann/ Wa	ashington	Sampling Date: 8/4/2022
Applicant/Owner: CHPE				State:	NY Sampling Point: GP2-A-Wet
Investigator(s): K. Weiskotte	n, K. Schumacher		Section, Township, Range	: Fort Ann	
Landform (hillside, terrace, etc	c.): Lake Plains	Lo	ocal relief (concave, conve	x, none): Concave	Slope (%):
Subregion (LRR or MLRA): LI	, RR R, MLRA 144A	Lat: 43° 26' 22.00"	Long:	-73° 27' 26.00"	Datum:
Soil Map Unit Name: Vergenn					sification: PEM
Are climatic / hydrologic condi	•	ical for this time of ve	ear? Yes X No		n in Remarks.)
Are Vegetation, Soil	31	•	<del></del>	al Circumstances" p	
Are Vegetation, Soil				, explain any answei	rs in Remarks.)
		<del></del>		ions, transects	s, important features, etc.
Hydrophytic Vegetation Pres	ent? Yes_	X No	Is the Sampled Area		
Hydric Soil Present?	Yes_	X No	within a Wetland?	Yes X	<u> </u>
Wetland Hydrology Present?	Yes_	X No	If yes, optional Wetlar		
Remarks: (Explain alternativ Shallow emergent marsh.	e procedures nore s	JI III α συραιαίο τορο.	•)		
HYDROLOGY					
Wetland Hydrology Indicate					icators (minimum of two required)
Primary Indicators (minimum	of one is required; of				oil Cracks (B6)
Surface Water (A1)		X Water-Stained			Patterns (B10)
High Water Table (A2)		Aquatic Fauna			Lines (B16)
Saturation (A3)		Marl Deposits (	•		on Water Table (C2)
Water Marks (B1)		Hydrogen Sulfic			Burrows (C8)
Sediment Deposits (B2)			spheres on Living Roots (C		Visible on Aerial Imagery (C9)
Drift Deposits (B3)			educed Iron (C4)		r Stressed Plants (D1)
Algal Mat or Crust (B4)			duction in Tilled Soils (C6)		nic Position (D2)
Iron Deposits (B5)	(D7)	Thin Muck Surf	` '		quitard (D3)
Inundation Visible on Ae		Other (Explain	n Remarks)		graphic Relief (D4)
Sparsely Vegetated Con	cave Surface (B8)		<del></del>	X FAC-Neut	ral Test (D5)
Field Observations:					
Surface Water Present?		X Depth (inches			
Water Table Present?	Yes No				:- V N-
Saturation Present?	Yes No _	X Depth (inches	):   wetiand	l Hydrology Preser	nt? Yes X No
(includes capillary fringe)  Describe Recorded Data (str	monitor		i increations) if		
Describe Recorded Data (5)	eam gauge, monitor	ring well, aeriai priotos	3, previous irispections <i>)</i> , ir	avaliable.	
Remarks:					
Nemans.					

**VEGETATION** – Use scientific names of plants. Sampling Point: GP2-A-Wet Absolute Dominant Indicator <u>Tree Stratum</u> (Plot size: 30 ) % Cover Species? **Dominance Test worksheet:** Status 1. **Number of Dominant Species** 2. That Are OBL, FACW, or FAC: (A) **Total Number of Dominant** 4. Species Across All Strata: (B) 5. Percent of Dominant Species 6. That Are OBL, FACW, or FAC: 100.0% (A/B) Prevalence Index worksheet: Total % Cover of:\_\_\_\_ Sapling/Shrub Stratum (Plot size: 15 ) OBL species \_\_\_\_ x 1 = 1. FACW species \_\_\_\_ x 2 = \_\_\_\_ 2. FAC species x 3 = \_\_\_ FACU species x 4 = x 5 = UPL species Column Totals: (B) (A) 6. Prevalence Index = B/A = **Hydrophytic Vegetation Indicators:** =Total Cover 1 - Rapid Test for Hydrophytic Vegetation Herb Stratum (Plot size: 5 ) X 2 - Dominance Test is >50% Typha angustifolia 20 OBL 3 - Prevalence Index is ≤3.0<sup>1</sup> Yes 2. Phalaris arundinacea 10 No **FACW** 4 - Morphological Adaptations<sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) 10 Lythrum salicaria No **OBL** 10 Eleocharis palustris No OBL Problematic Hydrophytic Vegetation<sup>1</sup> (Explain) 4. 15 5. Scirpus cyperinus Yes OBL <sup>1</sup>Indicators of hydric soil and wetland hydrology must 6. Scirpus atrovirens 15 Yes OBL be present, unless disturbed or problematic. 7. **Definitions of Vegetation Strata:** 8. Tree - Woody plants 3 in. (7.6 cm) or more in diameter 9. at breast height (DBH), regardless of height. 10. Sapling/shrub - Woody plants less than 3 in, DBH and greater than or equal to 3.28 ft (1 m) tall. **Herb** – All herbaceous (non-woody) plants, regardless 80 =Total Cover of size, and woody plants less than 3.28 ft tall. Woody Vine Stratum (Plot size: 15 ) Woody vines - All woody vines greater than 3.28 ft in 1. height. Hydrophytic Vegetation Present? Yes X\_ No \_\_\_\_ =Total Cover

 SOIL Sampling Point: GP2-A-Wet

	escription: (Describe t	o the de	•			or or con	firm the absence	of indicators.)
Depth	Matrix			Feature				
(inches)	Color (moist)	<u>%</u>	Color (moist)		Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-14	7.5YR 2.5/1	97	7.5YR 4/6	3	С	М	Loamy/Clayey	Prominent redox concentrations
			_					
<sup>1</sup> Type: C=	Concentration, D=Depl	etion, RN	/I=Reduced Matrix, CS	S=Cover	ed or Coa	ited Sand	l Grains. <sup>2</sup> Loc	cation: PL=Pore Lining, M=Matrix.
Hydric So	il Indicators:						Indicators fo	or Problematic Hydric Soils <sup>3</sup> :
Histos	sol (A1)		Polyvalue Below	Surface	(S8) ( <b>LR</b>	R R,	2 cm Mu	ck (A10) ( <b>LRR K, L, MLRA 149B</b> )
Histic	Epipedon (A2)		MLRA 149B)				Coast Pr	rairie Redox (A16) ( <b>LRR K, L, R</b> )
— Black	Histic (A3)		Thin Dark Surfac	e (S9) (I	LRR R, M	LRA 149	<b>B</b> ) 5 cm Mu	cky Peat or Peat (S3) (LRR K, L, R)
—— Hydro	gen Sulfide (A4)	,	High Chroma Sa	nds (S1	1) (LRR K	(, L)	Polyvalu	e Below Surface (S8) ( <b>LRR K, L</b> )
Stratif	fied Layers (A5)		Loamy Mucky Mi	ineral (F	1) (LRR k	(, L)	Thin Dar	k Surface (S9) (LRR K, L)
	ted Below Dark Surface	e (A11)	Loamy Gleyed M				Iron-Man	nganese Masses (F12) ( <b>LRR K, L, R</b> )
Thick	Dark Surface (A12)		Depleted Matrix					it Floodplain Soils (F19) ( <b>MLRA 149B</b> )
	y Mucky Mineral (S1)	,	X Redox Dark Surf	ace (F6)	)			podic (TA6) ( <b>MLRA 144A, 145, 149B</b> )
	y Gleyed Matrix (S4)	,	—— Depleted Dark S					ent Material (F21)
	y Redox (S5)	,	Redox Depression	ons (F8)	,			allow Dark Surface (TF12)
	ed Matrix (S6)	,	 Marl (F10) ( <b>LRR</b>	` '				xplain in Remarks)
	Surface (S7)			, ,				·
<sup>3</sup> Indicators	of hydrophytic vegetati	ion and v	vetland hydrology mus	st be pre	sent. unle	ess distur	bed or problematic	
	e Layer (if observed):							
Type:								
_	I \						United a Cold Day	
Depth (i	ncnes):						Hydric Soil Pre	esent? Yes X No
Remarks:								
								CS Field Indicators of Hydric Soils
version 7.0	0 March 2013 Errata. (h	ttp://wwv	v.nrcs.usaa.gov/Intern	et/FSE_	DOCUME	=NTS/nrc	s142p2_051293.dc	ocx)



Wetland GP2-A-Wet



**Wetland GP2-A-Wet - Soils** 

Segment 3 - Package 2

**SITE PHOTOGRAPHS** 

Project/Site: CHPE-Packag	e 2-MP 120.9	City/County: Fort Ann/Washington Sampling Date: 8/4/2022						
Applicant/Owner: CHPE				State:	— NY Sampling Poi	nt: GP2-A-Up		
Investigator(s): K. Weiskotte	en, K. Schumacher	Section	on, Township, Range:	Fort Ann				
Landform (hillside, terrace, etc		 Local re	elief (concave, convex,	none): Concave	Slope (	 (%):		
Subregion (LRR or MLRA): L	.RR R, MLRA 144A L			73° 25' 25.00"	Datum:	· · ·		
Soil Map Unit Name: Vergenr			~ _		ification: None			
Are climatic / hydrologic cond		al for this time of year?	Yes X No		n in Remarks.)			
Are Vegetation, Soil	3,	•		Circumstances" p		No		
Are Vegetation , Soil				explain any answer				
SUMMARY OF FINDIN	<u> </u>			ons, transects	, important featur	es, etc.		
Hydrophytic Vegetation Pres	sent? Yes	NoX I	s the Sampled Area					
Hydric Soil Present?	Yes		vithin a Wetland?	Yes	No <u>X</u> _			
Wetland Hydrology Present?	? Yes	No X I	f yes, optional Wetland	I Site ID:				
Remarks: (Explain alternative Successional old field	10 p1000111111	iii a soparate .sp :,						
HYDROLOGY								
Wetland Hydrology Indicat					cators (minimum of two	required)		
Primary Indicators (minimum	n of one is required; ch				urface Soil Cracks (B6)			
Surface Water (A1)	_	Water-Stained Leave	` '		Patterns (B10)			
High Water Table (A2)	-	Aquatic Fauna (B13)		Moss Trim Lines (B16)				
Saturation (A3)	-	Marl Deposits (B15)	(04)		n Water Table (C2)			
Water Marks (B1)	_	Hydrogen Sulfide Od			urrows (C8)	(CO)		
Sediment Deposits (B2)	<del>-</del>		es on Living Roots (C3	· —	Visible on Aerial Image	ry (C9)		
Drift Deposits (B3)	_	Presence of Reduced	` '		Stressed Plants (D1)			
Algal Mat or Crust (B4) Iron Deposits (B5)	-	Recent Iron Reduction Thin Muck Surface (0		Goils (C6) Geomorphic Position (D2) Shallow Aquitard (D3)				
Inundation Visible on Ae	erial Imageny (R7)	Other (Explain in Rer	•		graphic Relief (D4)			
Sparsely Vegetated Cor		Other (Explain in Nei	naiks)		rapnic Reliei (D4) ral Test (D5)			
<del></del>	lcave Surface (Do)				al rest (D3)			
Field Observations:	Vaa Na	Donth (inches)						
Surface Water Present? Water Table Present?	Yes No No No	Depth (inches):	<del></del>					
Saturation Present?	Yes No No	Depth (inches): Depth (inches):		Hydrology Presen	t? Yes	No X		
(includes capillary fringe)	165140	Берин (шоноз)	<b>**</b> *********************************	nyururugy r reser.	169	<u> </u>		
Describe Recorded Data (str		a well aerial photos, pre	L vious inspections), if a	vailable <sup>.</sup>				
D0001100110001404 D412 (5	can gaage, meme	g won, donar photoc, p. c	viodo inopoedenoj, e.	valiabio.				
Remarks:								

**VEGETATION** – Use scientific names of plants. Sampling Point: GP2-A-Up Absolute Dominant Indicator <u>Tree Stratum</u> (Plot size: 30 ) % Cover Species? **Dominance Test worksheet:** Status 1. **Number of Dominant Species** 2. That Are OBL, FACW, or FAC: (A) **Total Number of Dominant** 4. Species Across All Strata: 6 (B) 5. Percent of Dominant Species 6. That Are OBL, FACW, or FAC: 0.0% (A/B) Prevalence Index worksheet: Total % Cover of:\_\_\_\_ Sapling/Shrub Stratum (Plot size: 15 ) x 1 = OBL species 1. FACW species \_\_\_\_ x 2 = \_\_\_\_ 2. FAC species x 3 = \_\_\_ FACU species x 4 = x 5 = UPL species Column Totals: (B) (A) 6. Prevalence Index = B/A = **Hydrophytic Vegetation Indicators:** =Total Cover 1 - Rapid Test for Hydrophytic Vegetation Herb Stratum (Plot size: 5 ) 2 - Dominance Test is >50% 20 UPL 3 - Prevalence Index is ≤3.0<sup>1</sup> 1. Daucus carota Yes 2. Lotus corniculatus 5 No **FACU** 4 - Morphological Adaptations<sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) 10 3. Centaurea stoebe Yes **UPL** 10 **FACU** Yes Problematic Hydrophytic Vegetation<sup>1</sup> (Explain) 4. Erigeron annuus 10 UPL 5. Melilotus altissimus Yes <sup>1</sup>Indicators of hydric soil and wetland hydrology must FACU 6. Cichorium intybus 10 Yes be present, unless disturbed or problematic. Poa pratensis Yes **FACU Definitions of Vegetation Strata:** 8. Tree - Woody plants 3 in. (7.6 cm) or more in diameter 9. at breast height (DBH), regardless of height. 10. Sapling/shrub - Woody plants less than 3 in, DBH and greater than or equal to 3.28 ft (1 m) tall. **Herb** – All herbaceous (non-woody) plants, regardless 80 =Total Cover of size, and woody plants less than 3.28 ft tall. Woody Vine Stratum (Plot size: 15 ) Woody vines - All woody vines greater than 3.28 ft in 1. height. Hydrophytic Vegetation Present? Yes No X =Total Cover Remarks: (Include photo numbers here or on a separate sheet.)

**SOIL** Sampling Point: GP2-A-Up

	escription: (Describe	to the de	-			or or con	firm the absence of inc	licators.)
Depth	Matrix		Redox	Feature	es			
(inches)	Color (moist)	<u></u> %	Color (moist)		Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-12	10YR 3/4	100					Loamy/Clayey	
								-
			_					
			_					
1								
	Concentration, D=Dep	etion, RM	l=Reduced Matrix, C	S=Cover	ed or Coa	ited Sand		: PL=Pore Lining, M=Matrix.
	oil Indicators:							blematic Hydric Soils <sup>3</sup> :
Histos	sol (A1)	_	Polyvalue Below	Surface	(S8) ( <b>LR</b>	RR,	2 cm Muck (A	10) ( <b>LRR K, L, MLRA 149B</b> )
	Epipedon (A2)		MLRA 149B)					Redox (A16) ( <b>LRR K, L, R</b> )
	Histic (A3)	-	Thin Dark Surfac					eat or Peat (S3) (LRR K, L, R)
	ogen Sulfide (A4)	_	High Chroma Sa				Polyvalue Beld	ow Surface (S8) ( <b>LRR K, L</b> )
Stratif	fied Layers (A5)		Loamy Mucky M	ineral (F	1) ( <b>LRR k</b>	(, L)	Thin Dark Surf	face (S9) (LRR K, L)
Deple	eted Below Dark Surface	e (A11)	Loamy Gleyed M	1atrix (F2	2)		Iron-Mangane	se Masses (F12) ( <b>LRR K, L, R</b> )
Thick	Dark Surface (A12)	_	Depleted Matrix	(F3)			Piedmont Floo	odplain Soils (F19) ( <b>MLRA 149B</b> )
Sandy	y Mucky Mineral (S1)	_	Redox Dark Surf	ace (F6)	1		Mesic Spodic	(TA6) ( <b>MLRA 144A, 145, 149B</b> )
Sandy	y Gleyed Matrix (S4)	_	Depleted Dark S	urface (F	<del>-</del> 7)		Red Parent Ma	aterial (F21)
Sandy	y Redox (S5)	_	Redox Depression	ons (F8)			Very Shallow I	Dark Surface (TF12)
Stripp	oed Matrix (S6)	_	Marl (F10) ( <b>LRR</b>	<b>K</b> , <b>L</b> )			Other (Explain	in Remarks)
Dark	Surface (S7)							
<sup>3</sup> Indicators	s of hydrophytic vegetat	ion and w	etland hydrology mu	st be pre	sent, unle	ess disturl	bed or problematic.	
Restrictiv	e Layer (if observed):							
Type: _								
Depth (i	inches):						Hydric Soil Present	? Yes No X
Remarks:	· -						1 -	
	form is revised from No	rthcentral	and Northeast Region	nal Sun	nlement \	/ersion 2	0 to reflect the NRCS Fi	eld Indicators of Hydric Soils
	0 March 2013 Errata. (h							cia maioators or riyano cons
	,	•	J	_	-		' = /	



**Upland GP2-A-Up** 



**Upland GP2-A-Up- Soils** 

Segment 3 - Package 2

# SITE PHOTOGRAPHS

Project/Site: CHPE- Package 2- MP 120.9	City/County: Fort Ann/ Wa	shington	Sampling Date: 8/4/2022
Applicant/Owner: CHPE		State:	NY Sampling Point: GP2-B-Wet
Investigator(s): K. Weiskotten	Section, Township, Range:	: Fort Ann	
Landform (hillside, terrace, etc.): Lake Plains	Local relief (concave, convex	x, none): Concave	Slope (%):
Subregion (LRR or MLRA): LRR R, MLRA 144A La	at: 43° 26' 15.00" Long:	-73° 27' 25.00"	 Datum:
Soil Map Unit Name: Vergennes silty clay loam			ification: PEM
Are climatic / hydrologic conditions on the site typical	I for this time of year? Yes X No	(If no, explain	n in Remarks.)
Are Vegetation, Soil, or Hydrology	· — ·	al Circumstances" p	
Are Vegetation , Soil , or Hydrology		explain any answer	
SUMMARY OF FINDINGS – Attach site n	<del></del>	ions, transects	, important features, etc.
Hydrophytic Vegetation Present? Yes X	No Is the Sampled Area		
Hydric Soil Present? Yes X		Yes X	No
Wetland Hydrology Present? Yes X	No If yes, optional Wetlan		
Remarks: (Explain alternative procedures here or in	n a separate report.)		
Shallow emergent marsh			
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Indi	icators (minimum of two required)
Primary Indicators (minimum of one is required; che	eck all that apply)		oil Cracks (B6)
-	X Water-Stained Leaves (B9)	X Drainage F	` '
High Water Table (A2)	Aquatic Fauna (B13)		Lines (B16)
Saturation (A3)	Marl Deposits (B15)		n Water Table (C2)
Water Marks (B1)	Hydrogen Sulfide Odor (C1)		urrows (C8)
Sediment Deposits (B2)	Oxidized Rhizospheres on Living Roots (C		Visible on Aerial Imagery (C9)
Drift Deposits (B3)	Presence of Reduced Iron (C4)		Stressed Plants (D1)
Algal Mat or Crust (B4)	Recent Iron Reduction in Tilled Soils (C6)		ic Position (D2)
Iron Deposits (B5)	Thin Muck Surface (C7)		quitard (D3)
Inundation Visible on Aerial Imagery (B7)	Other (Explain in Remarks)		graphic Relief (D4)
Sparsely Vegetated Concave Surface (B8)		X FAC-Neutr	` ' '
Field Observations:			
Surface Water Present? Yes X No	Depth (inches): 3		
	Depth (inches):		
Saturation Present? Yes No X		Hydrology Presen	it? Yes X No
(includes capillary fringe)	_ Bepair (incines)	nyarology . rocc	100 <u>/</u> 110
Describe Recorded Data (stream gauge, monitoring	well aerial photos, previous inspections), if a	 available:	
, , , , ,	, , , , , , , , , , , , , , , , , , , ,		
Remarks:			

**VEGETATION** – Use scientific names of plants. Sampling Point: GP2-B-Wet Absolute Dominant Indicator 30' ) Tree Stratum (Plot size: % Cover Species? **Dominance Test worksheet:** Status 1. **Number of Dominant Species** 2. That Are OBL, FACW, or FAC: (A) 3. **Total Number of Dominant** 4. Species Across All Strata: (B) 5. Percent of Dominant Species 6. That Are OBL, FACW, or FAC: 100.0% (A/B) Prevalence Index worksheet: Total % Cover of:\_\_\_\_ Sapling/Shrub Stratum (Plot size: 15') OBL species x 1 = 10 1. Cornus racemosa FACW species \_\_\_\_\_ x 2 = \_\_\_\_ 2. FAC species x 3 = \_\_\_ \_\_\_\_ x 4 = 3. FACU species 4. UPL species x 5 = 5. Column Totals: (B) (A) 6. Prevalence Index = B/A = **Hydrophytic Vegetation Indicators:** 10 =Total Cover 1 - Rapid Test for Hydrophytic Vegetation Herb Stratum (Plot size: 5') X 2 - Dominance Test is >50% Typha angustifolia 20 OBL 3 - Prevalence Index is ≤3.0<sup>1</sup> Yes 2. Lythrum salicaria 10 No OBL 4 - Morphological Adaptations<sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) Phalaris arundinacea 10 No **FACW** 10 OBL Problematic Hydrophytic Vegetation<sup>1</sup> (Explain) 4. Eleocharis palustris No 15 5. Scirpus cyperinus Yes OBL <sup>1</sup>Indicators of hydric soil and wetland hydrology must 6. Scirpus atrovirens 15 Yes OBL be present, unless disturbed or problematic. 7. **Definitions of Vegetation Strata:** 8. Tree - Woody plants 3 in. (7.6 cm) or more in diameter 9. at breast height (DBH), regardless of height. 10. Sapling/shrub - Woody plants less than 3 in, DBH and greater than or equal to 3.28 ft (1 m) tall. **Herb** – All herbaceous (non-woody) plants, regardless 80 =Total Cover of size, and woody plants less than 3.28 ft tall. Woody Vine Stratum (Plot size: 15') Woody vines - All woody vines greater than 3.28 ft in 1. height. Hydrophytic

=Total Cover

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

Yes X\_ No \_\_\_\_

Vegetation Present? SOIL Sampling Point: GP2-B-Wet

	escription: (Describe	to the de	•			or or con	firm the absence	of indicators.)
Depth	Matrix			r Feature				
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-14	7.5YR 2.5/1	97	7.5YR 4/6	3	С	М	Loamy/Clayey	Prominent redox concentrations
			_					
<sup>1</sup> Type: C=	Concentration, D=Depl	etion, RN	/I=Reduced Matrix, CS	S=Cover	ed or Coa	ited Sand	l Grains. <sup>2</sup> Loc	cation: PL=Pore Lining, M=Matrix.
Hydric So	il Indicators:						Indicators fo	or Problematic Hydric Soils <sup>3</sup> :
Histos	sol (A1)		Polyvalue Below	Surface	(S8) ( <b>LR</b>	R R,	2 cm Mu	ck (A10) ( <b>LRR K, L, MLRA 149B</b> )
Histic	Epipedon (A2)		MLRA 149B)				Coast Pr	rairie Redox (A16) ( <b>LRR K, L, R</b> )
— Black	Histic (A3)		Thin Dark Surfac	e (S9) (l	LRR R, M	LRA 149	<b>B</b> ) 5 cm Mu	cky Peat or Peat (S3) (LRR K, L, R)
—— Hydro	gen Sulfide (A4)		High Chroma Sa	nds (S1	1) (LRR K	(, L)	Polyvalue	e Below Surface (S8) ( <b>LRR K, L</b> )
Stratif	fied Layers (A5)		Loamy Mucky Mi	ineral (F	1) (LRR k	(, L)	Thin Dar	k Surface (S9) (LRR K, L)
	ted Below Dark Surface	e (A11)	Loamy Gleyed M				Iron-Man	nganese Masses (F12) ( <b>LRR K, L, R</b> )
	Dark Surface (A12)	, ,	Depleted Matrix		•			it Floodplain Soils (F19) ( <b>MLRA 149B</b> )
	y Mucky Mineral (S1)		X Redox Dark Surf	` '	)			podic (TA6) ( <b>MLRA 144A, 145, 149B</b> )
	y Gleyed Matrix (S4)		—— Depleted Dark S					ent Material (F21)
	y Redox (S5)		Redox Depression	•	,			allow Dark Surface (TF12)
	ed Matrix (S6)		Marl (F10) (LRR	` '				xplain in Remarks)
	Surface (S7)			, -,				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
	cumaco (cr)							
<sup>3</sup> Indicators	of hydrophytic vegetat	ion and v	vetland hydrology mus	st be pre	sent unle	ess distur	bed or problematic	
	e Layer (if observed):		rotiana nyarology mat	31 20 p. 0		oo alotan	T T T T T T T T T T T T T T T T T T T	
Type:	o Layor (ii oboorvou).							
_								
Depth (i	nches):						Hydric Soil Pre	esent? Yes X No No No
Remarks:								
								CS Field Indicators of Hydric Soils
version 7.0	0 March 2013 Errata. (h	ittp://wwv	v.nrcs.usda.gov/Intern	iet/FSE_	DOCUME	=NTS/nrc	s142p2_051293.dc	DCX)



Wetland GP2-B-Wet



Wetland GP2-B-Wet- Soils

**SITE PHOTOGRAPHS** 

Project/Site: CHPE-Package	e 2- MP 120.9		Ci	ity/County: Fort	Ann/ Wasl	hington	Samı	pling Date:	8/4/20	122
Applicant/Owner: CHPE			State: NY S						Point:	GP2-B-Up
Investigator(s): K. Weiskotte	en, K. Schumacher		Se	ection, Township	o, Range:	Fort Ann		_		
Landform (hillside, terrace, etc	c.): Lake Plains		Loca	al relief (concave	e, convex,	none): Concave		Slo	pe (%):	
Subregion (LRR or MLRA): L	<i>'</i>	Lat:		,		73° 27' 25.00"		——— Datur		
Soil Map Unit Name: Vergenn			10 20 11			NWI class	ification:		···	
Are climatic / hydrologic condi		signal fo		Vas	X No					
, ,	• •		•			Circumstances" p			V N	l <sub>a</sub>
Are Vegetation, Soil						·		_	<u> </u>	10
Are Vegetation, Soil						xplain any answer		•		_
SUMMARY OF FINDING	GS – Attach sit	e ma	ip showing sa	ampling poin	it location	ons, transects	, impo	ortant tea	tures,	, etc.
Hydrophytic Vegetation Pres	ent? Yes		No_X_	Is the Sampl	ed Area					
Hydric Soil Present?	_			within a Wet		Yes	No	o X		
Wetland Hydrology Present?	_		No X	If yes, optiona	al Wetland					
Remarks: (Explain alternativ	re procedures here	or in a	separate report.)							
Successional old field										
HYDROLOGY										
Wetland Hydrology Indicate	ore:					Secondary Indi	cators (	minimum of	f two rec	quired)
Primary Indicators (minimum		chack	( all that annly)			Secondary Indi			IMO 160	<u>Juneu,</u>
Surface Water (A1)	Of Otte is required,		Water-Stained Le	אסעבי (R9)		Drainage F		` '		
High Water Table (A2)			. Valer-Stained Le Aquatic Fauna (B	` ,		Moss Trim				
Saturation (A3)			Marl Deposits (B1				•	· Table (C2)	1	
Water Marks (B1)			Hydrogen Sulfide	•		Crayfish B				
Sediment Deposits (B2)			Oxidized Rhizospl		Roots (C3)			•	nagery (	C9)
Drift Deposits (B3)			Presence of Redu	<del>-</del>						
Algal Mat or Crust (B4)			Recent Iron Redu		Geomorphic Position (D2)					
Iron Deposits (B5)		_	Thin Muck Surfac	——————————————————————————————————————						
Inundation Visible on Ae	erial Imagery (B7)		Other (Explain in I			Microtopog		•		
Sparsely Vegetated Con			(	,		FAC-Neutr	•	, ,		
Field Observations:	, .					<u>—</u>		,		
Surface Water Present?	Yes No	Χ	Depth (inches):							
Water Table Present?	Yes No	X								
Saturation Present?		X			Wetland F	Hydrology Presen	it?	Yes	No	Χ
(includes capillary fringe)										
Describe Recorded Data (str	eam gauge, monito	ring w	ell, aerial photos, r	previous inspect	tions), if av	/ailable:				
Remarks:										

**VEGETATION** – Use scientific names of plants. Sampling Point: GP2-B-Up Absolute Dominant Indicator <u>Tree Stratum</u> (Plot size: 30 ) % Cover Species? **Dominance Test worksheet:** Status 1. **Number of Dominant Species** 2. That Are OBL, FACW, or FAC: (A) **Total Number of Dominant** 4. Species Across All Strata: (B) 5. Percent of Dominant Species 6. That Are OBL, FACW, or FAC: 0.0% (A/B) Prevalence Index worksheet: Total % Cover of:\_\_\_\_ Sapling/Shrub Stratum (Plot size: 15 ) \_\_\_\_ x 1 = OBL species 1. FACW species \_\_\_\_ x 2 = \_\_\_\_ 2. FAC species x 3 = \_\_\_ \_\_\_\_ x 4 = FACU species x 5 = UPL species Column Totals: (A) (B) 6. Prevalence Index = B/A = **Hydrophytic Vegetation Indicators:** =Total Cover 1 - Rapid Test for Hydrophytic Vegetation Herb Stratum (Plot size: 5 ) 2 - Dominance Test is >50% 20 UPL 3 - Prevalence Index is ≤3.0<sup>1</sup> Daucus carota Yes 2. Lotus corniculatus 5 No FACU 4 - Morphological Adaptations<sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) 10 3. Centaurea stoebe Yes **UPL** 10 **FACU** Yes Problematic Hydrophytic Vegetation<sup>1</sup> (Explain) 4. Erigeron annuus 10 **FACU** 5. Melilotus albus Yes <sup>1</sup>Indicators of hydric soil and wetland hydrology must 6. Cichorium intybus 10 Yes **FACU** be present, unless disturbed or problematic. 5 Poa palustris No **FACW Definitions of Vegetation Strata:** 8. Pastinaca sativa No UPL Tree - Woody plants 3 in. (7.6 cm) or more in diameter 9. at breast height (DBH), regardless of height. 10. Sapling/shrub - Woody plants less than 3 in, DBH and greater than or equal to 3.28 ft (1 m) tall. **Herb** – All herbaceous (non-woody) plants, regardless 75 =Total Cover of size, and woody plants less than 3.28 ft tall. Woody Vine Stratum (Plot size: 15 ) Woody vines - All woody vines greater than 3.28 ft in 1. height. Hydrophytic Vegetation Present? Yes No X =Total Cover Remarks: (Include photo numbers here or on a separate sheet.)

**SOIL** Sampling Point: GP2-B-Up

	•	to the de	•			or or con	firm the absence of inc	dicators.)
Depth	Matrix		Redox	(Feature				
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-14	10YR 3/4	100					Loamy/Clayey	
1			<del></del> -				2.	
	=Concentration, D=Dep	letion, RN	/I=Reduced Matrix, CS	S=Cover	ed or Coa	ited Sand		n: PL=Pore Lining, M=Matrix.
	oil Indicators:							oblematic Hydric Soils <sup>3</sup> :
	sol (A1)		Polyvalue Below	Surface	(S8) ( <b>LR</b>	R R,		10) (LRR K, L, MLRA 149B)
	Epipedon (A2)		MLRA 149B)					Redox (A16) ( <b>LRR K, L, R</b> )
	Histic (A3)		Thin Dark Surfac					Peat or Peat (S3) (LRR K, L, R)
	ogen Sulfide (A4)		High Chroma Sa					ow Surface (S8) ( <b>LRR K, L</b> )
	fied Layers (A5)		Loamy Mucky M			<b>(</b> , L)		face (S9) ( <b>LRR K, L</b> )
	eted Below Dark Surface	e (A11)	Loamy Gleyed M		2)			se Masses (F12) ( <b>LRR K, L, R</b> )
Thick	Dark Surface (A12)		Depleted Matrix	` '			Piedmont Floo	odplain Soils (F19) ( <b>MLRA 149B</b> )
Sandy	y Mucky Mineral (S1)	,	Redox Dark Surf	ace (F6)			Mesic Spodic	(TA6) ( <b>MLRA 144A</b> , <b>145</b> , <b>149B</b> )
	y Gleyed Matrix (S4)		Depleted Dark S	,	<del>-</del> 7)		Red Parent Ma	
	y Redox (S5)		Redox Depression	, ,				Dark Surface (TF12)
	oed Matrix (S6)		Marl (F10) ( <b>LRR</b>	<b>K</b> , <b>L</b> )			Other (Explain	n in Remarks)
Dark	Surface (S7)							
•								
<sup>3</sup> Indicators	s of hydrophytic vegetat	ion and v	vetland hydrology mus	st be pre	sent, unle	ess disturl	bed or problematic.	
Restrictiv	e Layer (if observed):							
Type: _								
Depth (i	inches):						Hydric Soil Present	? Yes No X
Remarks:							<u> </u>	
	form is revised from No	rthcentra	I and Northeast Regio	nal Sup	plement \	/ersion 2.	.0 to reflect the NRCS Fi	ield Indicators of Hydric Soils
	0 March 2013 Errata. (h							,



**Upland GP2-B-Up** 



**Upland GP2-B-Up- Soils** 

Segment 3 - Package 2

# SITE PHOTOGRAPHS

Project/Site: CHPE- Package 2- MP 120.9	City/County: Fort Ann/ Washington Sampling Date: 8/4/20	122
Applicant/Owner: CHPE	State: NY Sampling Point:	GP2-C-Wet
Investigator(s): K. Weiskotten, K. Schumacher	Section, Township, Range: Fort Ann	
Landform (hillside, terrace, etc.): Ridges and hills	Local relief (concave, convex, none): Convex Slope (%):	
Subregion (LRR or MLRA): LRR R, MLRA 144A Lat: 43°.		
Soil Map Unit Name: Hollis rock outcrop	NWI classification: PEM	
Are climatic / hydrologic conditions on the site typical for this	<u> </u>	Jo
Are Vegetation, Soil, or Hydrology Are Vegetation, Soil, or Hydrology	· · · · · · · · · · · · · · · · · · ·	<b>'</b> '
		-4-
SUMMARY OF FINDINGS – Attach site map s	showing sampling point locations, transects, important features	, etc.
Hydrophytic Vegetation Present? Yes X N	lo Is the Sampled Area	
Hydric Soil Present? Yes X N	No within a Wetland? Yes X No	
Wetland Hydrology Present? Yes X N	No If yes, optional Wetland Site ID:	
Remarks: (Explain alternative procedures here or in a sep-	arate report.)	
Shallow emergent marsh.		
HYDROLOGY		
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two rec	
Primary Indicators (minimum of one is required; check all t		<u> aurou</u>
	ter-Stained Leaves (B9)  X Drainage Patterns (B10)	
<u> </u>	atic Fauna (B13)  Moss Trim Lines (B16)	
<del></del> -	I Deposits (B15)  Dry-Season Water Table (C2)	
I — · · · · —	rogen Sulfide Odor (C1)  Crayfish Burrows (C8)	
<u> </u>	dized Rhizospheres on Living Roots (C3)  Saturation Visible on Aerial Imagery (	C9)
I <del></del>	sence of Reduced Iron (C4)  Stunted or Stressed Plants (D1)	,00)
1 <del></del>	ent Iron Reduction in Tilled Soils (C6)  Geomorphic Position (D2)	
1 <del></del>	n Muck Surface (C7) Shallow Aquitard (D3)	
1 <del></del>	er (Explain in Remarks)  Microtopographic Relief (D4)	
Sparsely Vegetated Concave Surface (B8)	X FAC-Neutral Test (D5)	
Field Observations:	<u></u>	
	epth (inches): 6	
Water Table Present? Yes No X De		
Saturation Present? Yes X No De	epth (inches): 0 Wetland Hydrology Present? Yes X No	
(includes capillary fringe)		
Describe Recorded Data (stream gauge, monitoring well, a	aerial photos, previous inspections), if available:	
Remarks:		

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

Tree Stratum (Plot size: 30' )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
<ol> <li>Salix nigra</li> <li></li></ol>	5	Yes	OBL	Number of Dominant Species That Are OBL, FACW, or FAC: 3 (A)
3				Total Number of Dominant Species Across All Strata: 3 (B)
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
7.				Prevalence Index worksheet:
	5	=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15' )		-		OBL species x 1 =
1				FACW species x 2 =
2.				FAC species x 3 =
3.				FACU species x 4 =
Λ				UPL species x 5 =
5.				Column Totals: (A) (B)
6				Prevalence Index = B/A =
7.				Hydrophytic Vegetation Indicators:
		=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5' )		•		X 2 - Dominance Test is >50%
1. Typha angustifolia	25	Yes	OBL	3 - Prevalence Index is ≤3.0 <sup>1</sup>
Lythrum salicaria	15	Yes	OBL	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
3. Pontederia cordata	5	No	OBL	data in Remarks or on a separate sheet)
Eutrochium maculatum	10	No	OBL	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
	10	No	FACU	Froblematic Hydrophytic vegetation (Explain)
				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
6. Phalaris arundinacea	5	No	FACW	be present, unless disturbed or problematic.
7.				Definitions of Vegetation Strata:
8.				Tree – Woody plants 3 in. (7.6 cm) or more in diameter
9.				at breast height (DBH), regardless of height.
10.				Sapling/shrub – Woody plants less than 3 in. DBH
11.				and greater than or equal to 3.28 ft (1 m) tall.
12	70	=Total Cover		<b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size:15')				Woody vines – All woody vines greater than 3.28 ft in
1				height.
2.				
3.				Hydrophytic Vegetation
4.				Present? Yes X No
		=Total Cover		
Remarks: (Include photo numbers here or on a separ	ate sheet.)	-		•

Sampling Point: GP2-C-Wet

**SOIL** Sampling Point: GP2-C-Wet

Profile Des	scription: (Describe	to the de	pth needed to docu	ment th	e indicate	or or con	firm the absence o	of indicators.)
Depth	Matrix			x Feature				
(inches)	Color (moist)		Color (moist)		Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-6	10YR 2/2	95	10YR 6/6	5	<u> </u>	<u>M</u>	Loamy/Clayey	Prominent redox concentrations
6-8	10YR 3/2	92	10YR 6/6	8	C	M	Mucky Loam/Clay	Prominent redox concentrations
8-12	10YR 4/2	98	10YR 5/6			PL/M	Mucky Loam/Clay	Prominent redox concentrations
·								
		·						
<sup>1</sup> Type: C=0	Concentration, D=De	oletion RN	M=Reduced Matrix C	S=Cover	ed or Co	ted Sand	1 Grains 2 or	cation: PL=Pore Lining, M=Matrix.
Histose Histic I Black I Hydrog Stratifi ? Deplet Thick I Sandy Sandy Strippe Dark S	I Indicators:  ol (A1) Epipedon (A2) Histic (A3) gen Sulfide (A4) ed Layers (A5) ed Below Dark Surface Dark Surface (A12) Mucky Mineral (S1) Gleyed Matrix (S4) Redox (S5) ed Matrix (S6) surface (S7) of hydrophytic vegeta	ition and v	Polyvalue Below MLRA 149B) Thin Dark Surfact High Chroma Sat Loamy Mucky M Loamy Gleyed M Depleted Matrix X Redox Dark Sur Depleted Dark S Redox Depression Marl (F10) (LRR	ce (S9) ( ands (S1 ineral (F2 latrix (F2 (F3) face (F6) ourface (I ons (F8) K, L)	LRR R, M 1) (LRR M 1) (LRR M 2)	ILRA 149 K, L) K, L)	2 cm Muc Coast Pro Polyvalue Thin Dark Iron-Man Piedmon Mesic Sp Red Pare Very Sha Other (Ex	r Problematic Hydric Soils <sup>3</sup> : ck (A10) (LRR K, L, MLRA 149B) airie Redox (A16) (LRR K, L, R) cky Peat or Peat (S3) (LRR K, L, R) e Below Surface (S8) (LRR K, L) k Surface (S9) (LRR K, L) ganese Masses (F12) (LRR K, L, R) t Floodplain Soils (F19) (MLRA 149B) bodic (TA6) (MLRA 144A, 145, 149B) ent Material (F21) illow Dark Surface (TF12) kyplain in Remarks)
Type:		:					Hydric Soil Pre	esent? Yes X No
Remarks: This data fo							.0 to reflect the NR0	CS Field Indicators of Hydric Soils



Wetland GP2-C-Wet



Wetland GP2-C-Wet-Soils

**SITE PHOTOGRAPHS** 

Project/Site: CHPE- Packa	age 2-MP 120.9	C	ity/County: Fort Ann/ Was	shington	Sampling Date: 8/4/20	)22	
Applicant/Owner: CHPE		_		State:	— NY Sampling Point:	GP2-C-Up	
Investigator(s): K. Weiskot	ten. K. Schumacher	S	ection, Township, Range:	Fort Ann			
Landform (hillside, terrace, e			al relief (concave, convex,		Slope (%):		
Subregion (LRR or MLRA):	·			.73° 27'21.00"	\ \ / Datum:		
•		Lat. 43 20 12,00	Long		ification: None		
Soil Map Unit Name: Hollis	·						
Are climatic / hydrologic con	• •	•			n in Remarks.)		
Are Vegetation, Soi				l Circumstances" p		<sub>10</sub> —	
Are Vegetation, So	l, or Hydrology	naturally pro	blematic? (If needed, o	explain any answei	s in Remarks.)		
SUMMARY OF FINDI	NGS – Attach site	map showing sa	ampling point locati	ons, transects	, important features	, etc.	
Hydrophytic Vegetation Pre	esent? Yes	No X	Is the Sampled Area				
Hydric Soil Present?	Yes		within a Wetland?	Yes	NoX		
Wetland Hydrology Presen			If yes, optional Wetland				
Remarks: (Explain alternat							
Successional old field		a coparato roporti,					
Successional old lield							
HYDROLOGY							
Wetland Hydrology Indica	ators:			Secondary Ind	icators (minimum of two red	quired)	
Primary Indicators (minimu	m of one is required; c	heck all that apply)		Surface Se	oil Cracks (B6)		
Surface Water (A1)	,	Water-Stained Le	eaves (B9)	Drainage F	Patterns (B10)		
High Water Table (A2)		Aquatic Fauna (E	313)	Moss Trim	Lines (B16)		
Saturation (A3)		Marl Deposits (B	15)	Dry-Seaso	on Water Table (C2)		
——Water Marks (B1)		Hydrogen Sulfide			urrows (C8)		
Sediment Deposits (B2	<del>?</del> )		pheres on Living Roots (C3	·	Visible on Aerial Imagery (	(C9)	
Drift Deposits (B3)	,	Presence of Red	· ·	Stressed Plants (D1)			
Algal Mat or Crust (B4)	) .		uction in Tilled Soils (C6)		Geomorphic Position (D2)		
Iron Deposits (B5)	,	Thin Muck Surfac			quitard (D3)		
Inundation Visible on A	• , , ,	Other (Explain in	Remarks)		graphic Relief (D4)		
Sparsely Vegetated Co	oncave Surface (B8)			FAC-Neut	ral Test (D5)		
Field Observations:							
Surface Water Present?	Yes No _	<del></del> ' ' '					
Water Table Present?	Yes No						
Saturation Present?	Yes No	X Depth (inches):	Wetland	Hydrology Preser	nt? Yes No	<u>X</u>	
(includes capillary fringe)			is is if if				
Describe Recorded Data (s	tream gauge, monitorii	ng well, aerial photos,	previous inspections), ii a	valiable:			
Remarks:							

<b>VEGETATION</b> – Use scientific names of plant
---

Ctt (Dist sins)	Absolute	Dominant	Indicator	_	
ree Stratum (Plot size:30')	% Cover	Species?	Status	Dominance Test worksheet:	
Pinus strobus	5	Yes	FACU	Number of Dominant Species	
Prunus serotina	5	Yes	FACU	That Are OBL, FACW, or FAC:	(A)
				Total Number of Dominant	
				Species Across All Strata:	(B)
				Percent of Dominant Species	
				That Are OBL, FACW, or FAC: 0.0	0% (A/E
				Prevalence Index worksheet:	
	10	=Total Cover		Total % Cover of: Multip	oly by:
apling/Shrub Stratum (Plot size:15')				OBL species x 1 =	
Rhus typhina	5	No	UPL	FACW species x 2 =	
Lonicera tatarica	15	Yes	FACU	FAC species x 3 =	
Zanthoxylum americanum	10	Yes	FACU	FACU species x 4 =	
				UPL species x 5 =	
				Column Totals: (A)	(E
				Prevalence Index = B/A =	
				Hydrophytic Vegetation Indicators:	
	30	=Total Cover		1 - Rapid Test for Hydrophytic Veget	tation
erb Stratum (Plot size:)				2 - Dominance Test is >50%	
Trifolium pratense	10	Yes	FACU	3 - Prevalence Index is ≤3.0 <sup>1</sup>	
Melilotus albus	5	No	FACU	4 - Morphological Adaptations <sup>1</sup> (Prov	
Daucus carota	5	No	UPL	data in Remarks or on a separate	sheet)
Solidago altissima	15	Yes	FACU	Problematic Hydrophytic Vegetation	<sup>1</sup> (Explain)
. Centaurea stoebe	10	Yes	UPL	<sup>1</sup> Indicators of hydric soil and wetland hyd	Irology must
·				be present, unless disturbed or problema	
				Definitions of Vegetation Strata:	
				Tree – Woody plants 3 in. (7.6 cm) or mo	ore in diame
·		_		at breast height (DBH), regardless of hei	
D				Sapling/shrub – Woody plants less than	n 3 in. DBH
1				and greater than or equal to 3.28 ft (1 m)	
2				Herb – All herbaceous (non-woody) plan	ts. regardles
	45	=Total Cover		of size, and woody plants less than 3.28	
/oody Vine Stratum (Plot size:15' )				Woody vines – All woody vines greater t	than 3.28 ft i
Parthenocissus quinquefolia	5	Yes	FACU	height.	
·				Hydrophytic Vegetation	
				_	
				Present? Yes No _	X

**SOIL** Sampling Point: GP2-C-Up

Profile De	escription: (Describe t	o the de	pth needed to docu	ment the	e indicato	or or con	firm the absence of inc	dicators.)	
Depth	Matrix			k Feature	es				
(inches)	Color (moist)	%	Color (moist)	%_	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks	
0-12	10YR 3/3	100					Loamy/Clayey		
			_						
<sup>1</sup> Type: C=		etion RM	M=Reduced Matrix C:	S=Cover	ed or Coa	ted Sand	d Grains <sup>2</sup> Location	n: PL=Pore Lining, M=Mati	rix
	oil Indicators:	otion, rav	T Troduced Waters, Co	00101	00 01 000	itou ouric		blematic Hydric Soils <sup>3</sup> :	17.
	sol (A1)		Polyvalue Below	Surface	(S8) (LR	RR		10) (LRR K, L, MLRA 149	B)
	Epipedon (A2)	-	MLRA 149B)	Carraco	(00) (21)	,		Redox (A16) ( <b>LRR K, L, R</b>	
	Histic (A3)		Thin Dark Surfac	ce (S9) (I	I RR R. M	I RA 149		Peat or Peat (S3) (LRR K, I	
	ogen Sulfide (A4)	-	High Chroma Sa					ow Surface (S8) ( <b>LRR K, L</b>	
	fied Layers (A5)	-	Loamy Mucky M					face (S9) ( <b>LRR K, L</b> )	·′
	eted Below Dark Surface	· (A11)	Loamy Gleyed M			-, -,		se Masses (F12) ( <b>LRR K</b> ,	L. R)
	Dark Surface (A12)	-	Depleted Matrix		-,			odplain Soils (F19) ( <b>MLRA</b>	
	y Mucky Mineral (S1)	-	Redox Dark Surf		)			(TA6) ( <b>MLRA 144A, 145,</b> 1	
	y Gleyed Matrix (S4)	-	Depleted Dark S				Red Parent M		,
	y Redox (S5)	-	Redox Depression		- /			Dark Surface (TF12)	
	ped Matrix (S6)	-	 Marl (F10) ( <b>LRR</b>				Other (Explain		
	Surface (S7)	-		, ,				,	
	,								
<sup>3</sup> Indicators	s of hydrophytic vegetati	on and w	etland hydrology mu	st be pre	sent, unle	ess distur	bed or problematic.		
	e Layer (if observed):		,						
Type:									
Depth (i	inches):						Hydric Soil Present	? Yes No	x
Remarks:									
	form is revised from Nor	rthcentra	Land Northeast Region	onal Sup	plement \	/ersion 2	0 to reflect the NRCS F	ield Indicators of Hydric So	ils
	0 March 2013 Errata. (hi							iola maioatoro er riyano ee	
	,		· ·	_	_		· <del>-</del>		



**Upland GP2-C-Up** 



**Upland GP2-C-Up- Soils** 

# SITE PHOTOGRAPHS

Project/Site: CHPE- Package 2- MP 120.9	City/County: Fort Ann/ Wash	nington	Sampling Date: 8/4/2022				
Applicant/Owner: CHPE		State:	NY Sampling Point: GP2-D-Wet				
Investigator(s): K. Weiskotten, K. Schumacher	Section, Township, Range:	Fort Ann					
Landform (hillside, terrace, etc.): Ridges and hills	Local relief (concave, convex, r	none): Convex	Slope (%):				
Subregion (LRR or MLRA): LRR R, MLRA 144A Lat: 43	3° 26' 13.00' Long: -7	'3° 27' 21.00"	 Datum:				
Soil Map Unit Name: Hollis rock outcrop			fication: PSS				
Are climatic / hydrologic conditions on the site typical for t	this time of year? Yes X No						
Are Vegetation, Soil, or Hydrology	· — —	Circumstances" pr					
Are Vegetation, Soil, or Hydrology	naturally problematic? (If needed, ex	xplain any answers	s in Remarks.)				
SUMMARY OF FINDINGS – Attach site map	showing sampling point locatio	ons, transects,	important features, etc.				
Hydrophytic Vegetation Present? Yes X	No Is the Sampled Area						
Hydric Soil Present? Yes X	No within a Wetland?	Yes X	No				
Wetland Hydrology Present? Yes X	No If yes, optional Wetland						
Remarks: (Explain alternative procedures here or in a se	eparate report.)						
Shrub swamp							
,							
HYDROLOGY							
Wetland Hydrology Indicators:		Secondary Indic	cators (minimum of two required)				
Primary Indicators (minimum of one is required; check a	ll that apply)	Surface So	il Cracks (B6)				
X Surface Water (A1) W	/ater-Stained Leaves (B9)	Drainage P	atterns (B10)				
High Water Table (A2)	quatic Fauna (B13)	Moss Trim Lines (B16)					
Saturation (A3)	larl Deposits (B15)	Dry-Season Water Table (C2)					
Water Marks (B1)	ydrogen Sulfide Odor (C1)	Crayfish Bu	ırrows (C8)				
Sediment Deposits (B2)	xidized Rhizospheres on Living Roots (C3)	Saturation	Visible on Aerial Imagery (C9)				
Drift Deposits (B3)	resence of Reduced Iron (C4)	educed Iron (C4) Stunted or Stressed Plants (D1)					
Algal Mat or Crust (B4)	ecent Iron Reduction in Tilled Soils (C6)	Geomorphi	eomorphic Position (D2)				
Iron Deposits (B5)	hin Muck Surface (C7)	Shallow Aq	uitard (D3)				
Inundation Visible on Aerial Imagery (B7)	ther (Explain in Remarks)	Microtopographic Relief (D4)					
Sparsely Vegetated Concave Surface (B8)		X FAC-Neutra	al Test (D5)				
Field Observations:							
	Depth (inches): 4						
	Depth (inches):						
Saturation Present? Yes X No No	Depth (inches): 0 Wetland H	lydrology Present	t? Yes X No				
(includes capillary fringe)							
Describe Recorded Data (stream gauge, monitoring well	l, aerial photos, previous inspections), if ava	ailable:					
Remarks:							
Fringe type wetland connected to stream GP2-S3.							

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

<u>Tree Stratum</u> (Plot size: 30' )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:		
1. Ulmus americana	5	Yes	FACW	N. oler (Brains (Orania		
2.				Number of Dominant Species That Are OBL, FACW, or FAC:6 (A)		
3				Total Number of Dominant		
4				Species Across All Strata: 7 (B)		
5				Percent of Dominant Species		
6				That Are OBL, FACW, or FAC: 85.7% (A/B)		
7				Prevalence Index worksheet:		
	5	=Total Cover		Total % Cover of: Multiply by:		
Sapling/Shrub Stratum (Plot size:)				OBL species x 1 =		
1. Lonicera tatarica	15	Yes	FACU	FACW species x 2 =		
2. Cornus racemosa	10	Yes	FAC	FAC species x 3 =		
3. Populus deltoides	10	Yes	FAC	FACU species x 4 =		
4. Salix purpurea	5	No	FACW	UPL species x 5 =		
5. Alnus incana	5	No No	FACW	Column Totals: (A) (B)		
6.				Prevalence Index = B/A =		
7.		· <u></u>		Hydrophytic Vegetation Indicators:		
	45	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation		
Herb Stratum (Plot size: 5' )		•		X 2 - Dominance Test is >50%		
1. Typha angustifolia	15	Yes	OBL	3 - Prevalence Index is ≤3.0 <sup>1</sup>		
2. Symplocarpus foetidus	5	No No	OBL	4 - Morphological Adaptations <sup>1</sup> (Provide supportin		
3. Lythrum salicaria	10	Yes	OBL	data in Remarks or on a separate sheet)		
4. Pontederia cordata	5	No No	OBL	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)		
5. Eutrochium maculatum	5	No No	OBL	<u> </u>		
6.				<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.		
7.				Definitions of Vegetation Strata:		
8.				Tree – Woody plants 3 in. (7.6 cm) or more in diamete		
9.				at breast height (DBH), regardless of height.		
10				Sapling/shrub – Woody plants less than 3 in. DBH		
11				and greater than or equal to 3.28 ft (1 m) tall.		
12				Herb – All herbaceous (non-woody) plants, regardless		
	40	=Total Cover		of size, and woody plants less than 3.28 ft tall.		
Woody Vine Stratum (Plot size:15')				Woody vines – All woody vines greater than 3.28 ft in		
1. Toxicodendron radicans	5	Yes	FAC	height.		
2.						
3.				Hydrophytic Vegetation		
4.				Present? Yes X No No		
	5	=Total Cover				
Remarks: (Include photo numbers here or on a separate	rate sheet.)					

Sampling Point: GP2-D-Wet

**SOIL** Sampling Point: GP2-D-Wet

Profile Des	scription: (Describe	to the de	epth needed to docu	ment th	e indicate	or or con	firm the absence o	of indicators.)
Depth	Matrix			x Feature				
(inches)	Color (moist)		Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-6	7.5YR 3/3	100					Muck	
6-10	7.5YR 2.5/1	95	7.5YR 4/6	5	C	M	Mucky Loam/Clay	Prominent redox concentrations
10-14	7.5YR 2.5/1	90_	7.5YR 4/6	10	<u>C</u>	M	Mucky Loam/Clay	Prominent redox concentrations
		<u> </u>				 		
		<u> </u>			<u> </u>	<u> </u>		
					_	_		
<sup>1</sup> Type: C=0	Concentration, D=De	oletion, RI	——————————————————————————————————————	S=Cover	ed or Coa	ted San	d Grains. <sup>2</sup> Loc	cation: PL=Pore Lining, M=Matrix.
Histoso Histic I Black I Hydrog Stratific Deplet Thick I Sandy Sandy Sandy Strippe Dark S  Indicators  Restrictive	Epipedon (A2) Histic (A3) Jen Sulfide (A4) Jed Layers (A5) Jed Below Dark Surface Dark Surface (A12) Mucky Mineral (S1) Gleyed Matrix (S4) Redox (S5) Jed Matrix (S6) Jurface (S7)	ation and v	Polyvalue Below  MLRA 149B)  Thin Dark Surfar  High Chroma Sa  Loamy Mucky M  Loamy Gleyed M  Depleted Matrix  X Redox Dark Sur  Depleted Dark Sur  Redox Depressi  Marl (F10) (LRR	ce (S9) ( ands (S1 lineral (F2 latrix (F3) face (F6) Gurface (F6) ons (F8)	LRR R, M 1) (LRR M 1) (LRR M 2)	ILRA 149 (, L) (, L)	2 cm Muc Coast Pro Polyvalue Thin Dark Iron-Man Piedmon Mesic Sp Red Pare Very Sha Other (Ex	r Problematic Hydric Soils <sup>3</sup> : ck (A10) (LRR K, L, MLRA 149B) airie Redox (A16) (LRR K, L, R) cky Peat or Peat (S3) (LRR K, L, R) e Below Surface (S8) (LRR K, L) c Surface (S9) (LRR K, L) ganese Masses (F12) (LRR K, L, R) t Floodplain Soils (F19) (MLRA 149B) bodic (TA6) (MLRA 144A, 145, 149B) ent Material (F21) illow Dark Surface (TF12) cxplain in Remarks)
Type: Depth (in	ches):						Hydric Soil Pre	esent? Yes X No
			al and Northeast Regivenres.usda.gov/Inter					CS Field Indicators of Hydric Soils



Wetland GP2-D-Wet



Wetland GP2-D-Wet-Soils

# **SITE PHOTOGRAPHS**

Project/Site: CHPE-Package 2- MP 120.9	City/County: Fo	ort Ann/ Washington	Sampling Date: 8/4/2022
Applicant/Owner: CHPE		State:	NY Sampling Point: GP2-D-Up
Investigator(s): K. Weiskotten, K. Schumacher	Section, Towns	ship, Range: Fort Ann	· · -
Landform (hillside, terrace, etc.): Ridges and hills		ave, convex, none): Convex	Slope (%):
Subregion (LRR or MLRA): LRR R, MLRA 144A Lat	t: 43° 26' 13 <u>.</u> 00"	Long:73° 27' 21.00"	Datum:
Soil Map Unit Name: Hollis rock outcrop		NWI class	ification: None
Are climatic / hydrologic conditions on the site typical	for this time of year? Yes	X No (If no, explair	n in Remarks.)
Are Vegetation, Soil, or Hydrology _		Are "Normal Circumstances" p	
Are Vegetation, Soil, or Hydrology _	naturally problematic?	(If needed, explain any answer	rs in Remarks.)
SUMMARY OF FINDINGS – Attach site m	ap showing sampling po	oint locations, transects	, important features, etc.
Hydrophytic Vegetation Present? Yes	No X Is the San	npled Area	
Hydric Soil Present? Yes	No X within a W	Vetland? Yes	NoX
Wetland Hydrology Present? Yes	No X If yes, option	onal Wetland Site ID:	
Remarks: (Explain alternative procedures here or in	a separate report.)		
Successional old field.			
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Indi	cators (minimum of two required)
Primary Indicators (minimum of one is required; chec	ck all that apply)	Surface So	oil Cracks (B6)
Surface Water (A1)	_Water-Stained Leaves (B9)	Drainage F	Patterns (B10)
High Water Table (A2)	_ Aquatic Fauna (B13)	Moss Trim	Lines (B16)
Saturation (A3)	_Marl Deposits (B15)	Dry-Seaso	n Water Table (C2)
Water Marks (B1)	_ Hydrogen Sulfide Odor (C1)	Crayfish B	urrows (C8)
Sediment Deposits (B2)	_Oxidized Rhizospheres on Livi	ng Roots (C3) Saturation	Visible on Aerial Imagery (C9)
Drift Deposits (B3)	Presence of Reduced Iron (C4	)Stunted or	Stressed Plants (D1)
Algal Mat or Crust (B4)	_Recent Iron Reduction in Tilled	Soils (C6) Geomorph	ic Position (D2)
Iron Deposits (B5)	_ Thin Muck Surface (C7)	Shallow Ad	quitard (D3)
Inundation Visible on Aerial Imagery (B7)	_ Other (Explain in Remarks)	Microtopoç	graphic Relief (D4)
Sparsely Vegetated Concave Surface (B8)		FAC-Neutr	ral Test (D5)
Field Observations:			
Surface Water Present? Yes No _X	Depth (inches):		
Water Table Present? Yes No _X	Depth (inches):		
Saturation Present? Yes No X	Depth (inches):	Wetland Hydrology Presen	t? Yes No _X
(includes capillary fringe)			
Describe Recorded Data (stream gauge, monitoring	well, aerial photos, previous insp	ections), if available:	
Damadaa			
Remarks:			

**VEGETATION** – Use scientific names of plants. Sampling Point: GP2-D-Up Absolute Dominant Indicator Tree Stratum (Plot size: \_\_\_ 30' % Cover **Dominance Test worksheet:** Species? Status 5 Yes FACU 1. Acer saccharum **Number of Dominant Species** 

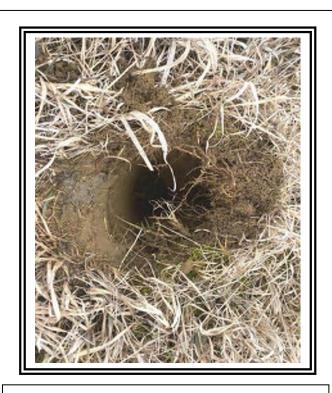
2. Fraxinus americana		Yes	FACU	That Are OBL, FACW, or FAC		$-^{(A)}$
3				Total Number of Dominant		
4				Species Across All Strata:	6	_(B)
5. 6.				Percent of Dominant Species That Are OBL, FACW, or FAC	: 0.0%	(A/B)
7				Prevalence Index worksheet	•	
	10	_=Total Cover		Total % Cover of:	Multiply by:	
Sapling/Shrub Stratum (Plot size:)				OBL species	x 1 =	
1. Rhus typhina	5	Yes	UPL	FACW species	x 2 =	
2				FAC species	x 3 =	
3				FACU species	x 4 =	
4				UPL species	x 5 =	
5				Column Totals:	(A)	(B)
6				Prevalence Index = B/A	\ =	
7				Hydrophytic Vegetation India	cators:	
	5	_=Total Cover		1 - Rapid Test for Hydroph	nytic Vegetation	
Herb Stratum (Plot size:)				2 - Dominance Test is >50	)%	
1. Daucus carota	10	Yes	UPL	3 - Prevalence Index is ≤3	.0 <sup>1</sup>	
2. Trifolium pratense	10	Yes	FACU	4 - Morphological Adaptat	·	
3. Pastinaca sativa	5	No	UPL	data in Remarks or on a	separate sheet	)
4. Solidago canadensis	15	Yes	FACU	Problematic Hydrophytic \	egetation <sup>1</sup> (Exp	lain)
5. Cichorium intybus	5	No	FACU	<sup>1</sup> Indicators of hydric soil and w	etland hydrology	must
6				be present, unless disturbed o		
7				Definitions of Vegetation Str	ata:	
8				Tree – Woody plants 3 in. (7.6	cm) or more in	diameter
9				at breast height (DBH), regard	,	
10				Sapling/shrub – Woody plant	s less than 3 in.	DBH
11				and greater than or equal to 3.		
12				Herb – All herbaceous (non-w	oody) plants, rec	ardless
	45	_=Total Cover		of size, and woody plants less		ar arooc
Woody Vine Stratum (Plot size:15' )				Woody vines – All woody vine	es greater than 3	28 ft in
1				height.	o groator triair o	.20 10 111
2.						
3.				Hydrophytic Vegetation		
4.				Present? Yes	NoX_	
		=Total Cover				
Remarks: (Include photo numbers here or on a sena	rate sheet	- 1		-		

**SOIL** Sampling Point: GP2-D-Up

Profile De	escription: (Describe t	o the de	pth needed to docu	ment the	e indicate	or or con	firm the absence of in	dicators.)	
Depth	Matrix		Redox	Feature	es				
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks	
0-14	10YR 4/4	100					Loamy/Clayey		
	1011(4/4						Loamy/Clayey		
			_						
1 <sub>Tymov</sub> C-	-Concentration D-Donle	ation DM	I=Daduaad Matrix C			tod Con	Crains 21 agetics	v. DI =Doro Lining M=Motrix	
	Concentration, D=Deple	elion, Riv	i–Reduced Matrix, Co	5-Cover	ed or Coa	ited Sand		n: PL=Pore Lining, M=Matrix	×
	oil Indicators:		51 1 51	0 (	(00) (LD			oblematic Hydric Soils <sup>3</sup> :	.,
	sol (A1)	-	Polyvalue Below	Surface	(S8) (LR	KK,		10) (LRR K, L, MLRA 149B	<sup>5)</sup>
	Epipedon (A2)		MLRA 149B)					Redox (A16) ( <b>LRR K, L, R</b> )	
	Histic (A3)	-	Thin Dark Surface					Peat or Peat (S3) (LRR K, L,	
	ogen Sulfide (A4)	-	High Chroma Sa					ow Surface (S8) ( <b>LRR K, L</b> )	
	fied Layers (A5)	_	Loamy Mucky M			<b>(</b> , L)		face (S9) ( <b>LRR K, L</b> )	
Deple	eted Below Dark Surface	(A11) _	Loamy Gleyed M	1atrix (F2	2)		Iron-Mangane	se Masses (F12) ( <b>LRR K, L</b>	., R)
Thick	Dark Surface (A12)	_	Depleted Matrix	(F3)			Piedmont Flo	odplain Soils (F19) ( <b>MLRA 1</b>	49B)
Sandy	y Mucky Mineral (S1)	_	Redox Dark Surf	ace (F6)	1		Mesic Spodic	(TA6) (MLRA 144A, 145, 14	49B)
Sandy	y Gleyed Matrix (S4)	_	Depleted Dark S	urface (F	<del>-</del> 7)		Red Parent M	aterial (F21)	
Sandy	y Redox (S5)	_	Redox Depression	ons (F8)			Very Shallow	Dark Surface (TF12)	
Stripp	oed Matrix (S6)		Marl (F10) (LRR	<b>K</b> , <b>L</b> )			Other (Explain	n in Remarks)	
Dark	Surface (S7)	_					<del></del>		
<sup>3</sup> Indicators	s of hydrophytic vegetati	on and w	etland hydrology mus	st be pre	sent, unle	ess distur	bed or problematic.		
	e Layer (if observed):			· ·					
Type:	, ,								
-	inches).						Hydric Soil Present	Van Na	, l
Depth (i							nyaric Soil Present	:? Yes No _	$\stackrel{\wedge}{=}$
Remarks:									
								ield Indicators of Hydric Soil	s
version 7.0	0 March 2013 Errata. (ht	tp://www	.nrcs.usda.gov/interr	iet/FSE_	DOCUME	=iN i S/nrc	s142p2_051293.docx)		



**Upland GP2-D-Up** 



**Upland GP2-D-Up- Soils** 

# SITE PHOTOGRAPHS

Project/Site: CHPE- Packa	age 2- MP 120.9	City/County: F	ort Ann/ Washington	Sampling Date: 8/4/2022
Applicant/Owner: CHPE		_	State:	NY Sampling Point: GP2-E-Wet
Investigator(s): K. Weiskot	tten, K. Schumacher	Section, Towns	ship, Range: Fort Ann	
Landform (hillside, terrace, e			ave, convex, none): convex	Slope (%):
Subregion (LRR or MLRA):	·		Long: -73° 27' 18.00"	 Datum:
Soil Map Unit Name: Hollis		. 10 20 11,00		ification: PEM
	•	for this time of year? Van	-	
Are climatic / hydrologic con	• •	•		n in Remarks.)
Are Vegetation, So			Are "Normal Circumstances" p (If needed, explain any answe	
			•	·
SUMMARY OF FINDII	NGS – Attach site ma	ap snowing sampling po	int locations, transects	s, important features, etc.
Hydrophytic Vegetation Pre	esent? Yes X	No Is the San	npled Area	
Hydric Soil Present?	Yes X	No within a V	Vetland? Yes X	
Wetland Hydrology Presen	t? Yes X	No If yes, opti	onal Wetland Site ID:	
Remarks: (Explain alternate	tive procedures here or in	a separate report.)		
Shallow emergent marsh.				
HYDROLOGY				
Wetland Hydrology Indica			Secondary Ind	icators (minimum of two required)
Primary Indicators (minimu		k all that annly)		oil Cracks (B6)
Surface Water (A1)		Water-Stained Leaves (B9)		Patterns (B10)
High Water Table (A2)		Aquatic Fauna (B13)		Lines (B16)
Saturation (A3)		Marl Deposits (B15)		on Water Table (C2)
Water Marks (B1)		Hydrogen Sulfide Odor (C1)	<del></del> -	Burrows (C8)
Sediment Deposits (B2	2)	Oxidized Rhizospheres on Livi	<del></del>	Visible on Aerial Imagery (C9)
Drift Deposits (B3)		Presence of Reduced Iron (C4	· · · —	Stressed Plants (D1)
Algal Mat or Crust (B4	)	- Recent Iron Reduction in Tilled	·	nic Position (D2)
Iron Deposits (B5)		- Thin Muck Surface (C7)		quitard (D3)
Inundation Visible on A		Other (Explain in Remarks)		graphic Relief (D4)
Sparsely Vegetated Co	• , · , <u> </u>	_	X FAC-Neut	- ' '
Field Observations:				
Surface Water Present?	Yes No X	Depth (inches):		
Water Table Present?	Yes No X	Depth (inches):		
Saturation Present?	Yes X No	Depth (inches): 0	Wetland Hydrology Preser	nt? Yes X No
(includes capillary fringe)				
Describe Recorded Data (s	stream gauge, monitoring v	vell, aerial photos, previous insp	ections), if available:	
Remarks:				
Remarks.				

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

Tree Stratum (Plot size:30' )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1				Number of Dominant Species
2.				That Are OBL, FACW, or FAC: 6 (A)
3.				
1				Total Number of Dominant Species Across All Strata: 7 (B)
·				(B)
				Percent of Dominant Species That Are OBL, FACW, or FAC: 85.7% (A/
5 7				Prevalence Index worksheet:
		=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15'	· · · · · · · · · · · · · · · · · · ·	•		OBL species x 1 =
1 Saliv nigra	10	Yes	OBL	FACW species x 2 =
2. Rhus typhina	5	Yes	UPL	FAC species x 3 =
3. Cornus amomum	10	Yes	FACW	FACU species x 4 =
ł				UPL species x 5 =
5				Column Totals: (A)
S				Prevalence Index = B/A =
·				Hydrophytic Vegetation Indicators:
	25	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size:5' )				X 2 - Dominance Test is >50%
Typha angustifolia	20	Yes	OBL	3 - Prevalence Index is ≤3.0 <sup>1</sup>
2. Lythrum salicaria	15	Yes	OBL	4 - Morphological Adaptations <sup>1</sup> (Provide support
3. Bidens frondosa	15	Yes	FACW	data in Remarks or on a separate sheet)
1. Lysimachia nummularia	5	No	FACW	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5. Phalaris arundinacea 6.	5	. <u>No</u>	FACW_	<sup>1</sup> Indicators of hydric soil and wetland hydrology musi
7				be present, unless disturbed or problematic.  Definitions of Vegetation Strata:
·				
)				<b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diame at breast height (DBH), regardless of height.
10				Sapling/shrub – Woody plants less than 3 in. DBH
11				and greater than or equal to 3.28 ft (1 m) tall.
12.				Herb – All herbaceous (non-woody) plants, regardle:
	60	=Total Cover		of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size: 15'	1			Woody vines – All woody vines greater than 3.28 ft
1. Toxicodendron radicans	5	Yes	FAC	height.
2.				
				Hydrophytic
3				Vegetation
				Present? Yes X No
3. 4.		=Total Cover		