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

# **Champlain Hudson Power Express**



# Revised Wetland & Waterbodies Delineation Report – Phase 1

Case 10-T-0139 Putnam - Whitehall, New York

CHA Project Number: 066076

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#### LIST OF ATTACHMENTS

Wetland Determination Data Sheets and Wetland Photographs
NWI & State Wetland and Stream Mapping
NRCS Soil Mapping
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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, Inc. ("CHPE") and Kiewit Construction (Kiewit) for the Champlain Hudson Power Express Project (Project). CHA was retained by Kiewit to identify and delineate jurisdictional wetlands and waterbodies regulated under Section 404 of the Clean Water Act (CWA), Section 10 of the Rivers and Harbors Act of 1899, and Article 24 Freshwater Wetlands Act (FWW) and Article 15 (Protection of Waters) 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"). 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 is an addendum to the February 2022 delineation report. It describes the wetland delineation methodology and the existing wetland and waterbody resources that were identified in the Project Corridor (also defined as the Jurisdictional Determination limits) during field surveys for the overland portions of the Project.

This revision includes the laydown and staging area located on Ryder Road (new wetlands SA1, SA2, SA3 & SA4), additional delineation along Lake Road (expanded delineations of Wetlands CO and CP, Stream CS13, and delineation of a wetland (Wetland CPA) abutting Stream CS13 on the south side of Lake Road), and additional delineation along Route 22 (Wetlands 1A-A, A1-B, A1-C, 1A-D, 1B-A, and Stream 1B-S1) to reflect alignment changes resulting from discussion with the NYS Department of Transportation.

#### 2.0 PHASE I CORRIDOR OVERVIEW

From the Canada border, the proposed transmission cable route enters Lake Champlain and travels south to the Town of Putnam, New York. In the Town of Putnam, the transmission cables will transition from the waters of Lake Champlain to the land on the western shore via a horizontal directional drill ("HDD") and subsequently enters County Route 3 and Lake Road for approximately 3.2 miles (approximate Sta. 10000 +00 to Sta.10161+00) to intersect with the New York State Route 22 ROW. The cables continue within the Route 22 ROW approximately 16.5 miles (approximate Sta.12500+00 to Sta 13038+71) until the CP Railroad ROW. The cable route enters the CP ROW and remains primarily within the ROW for approximately 5.9 miles (Sta. 15000+10 to Sta. 15306+44) to the end of Phase I. 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 27 miles of the Phase 1 Project Corridor that was investigated for wetlands and waterbodies.

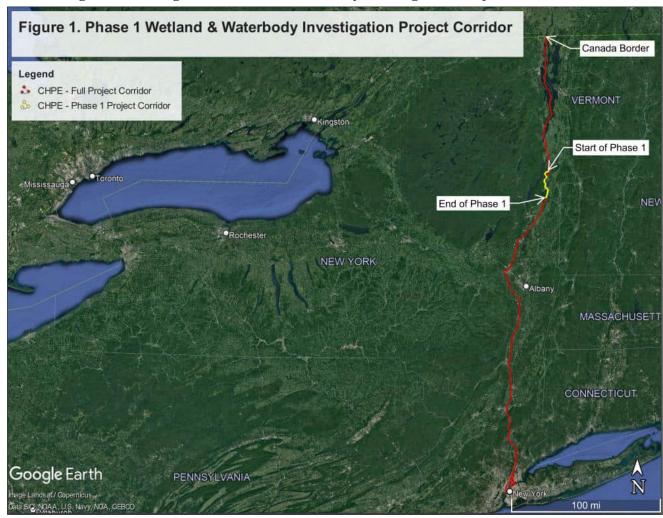


Figure 1: Package 1 Wetland & Waterbody Investigation Project Corridor

#### 3.0 WETLAND DELINEATION METHODOLOGY

To determine the potential for wetland impacts from construction of the Project, CHA assessed the Project survey area 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) jurisdictional wetlands. Greenman Pedersen, Inc. (GPI) assisted with the field work. Wetland scientists from CHA conducted wetland delineations from October to January 2022, and as part of this addendum, again in April and August 2022. 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 Manual: Northcentral and Northeast Region* (January 2012) wetland 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 Route 22 ROW, County Route 3, local roads, 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 aforementioned 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 (e.g. 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 Phase 1 Project Corridor falls under the jurisdiction of the USACE, Adirondack Park Agency (APA) and the New York State Department of Environmental Conservation (NYSDEC). The New York State methodology similarly recognizes the three parameters of vegetation, soils, and hydrology; however, under the New York State method the hydric vegetation criterion is mandatory, while the other two parameters are not (Browne et. al. 1995). Wetlands regulated by the APA are typically one acre or more in size. Those wetlands regulated by NYSDEC (outside the Adirondack Park) 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 and APA publish 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 Natural Resources Conservation Service (NRCS) soil mapping, NYSDEC freshwater wetlands mapping and APA wetland mapping to identify potential wetland features present within the Project Corridor. More importantly, CHA used the previous wetland delineation prepared for this Project Corridor and alternatives for the purposes of verifying and modifying the previous delineation. Refer to Attachment 2 for NWI and NYSDEC Freshwater Wetland & Stream Mapping and Attachment 3 for NRCS Soil Mapping.

Waterbodies within the Project Corridor, including streams under NYSDEC Article 15 jurisdiction, were identified by the presence of an ordinary high-water mark (OHWM) or stream channel. Delineation and flagging were completed to identify the ordinary high-water mark (OHWM) for most perennial and intermittent streams.

This report documents the wetlands and waterbodies potentially under federal and State jurisdiction that were identified in the survey area 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 112 wetland areas were identified in the survey area along the Phase I Project Corridor totaling approximately 34.5 acres within the Project Corridor (also defined as the Jurisdictional Determination limits). Table 4-1 in Attachment 4 provides a summary of the wetlands identified along the Phase I Project Corridor, including their classification in accordance with Cowardin et al. (1979) and their state or federal jurisdiction. Of these, seven (7) wetlands delineated along the Project Corridor correspond with wetlands mapped by the NYSDEC.

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 shows the locations of delineated wetlands and waterways are provided in Attachment 5. 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 survey area: palustrine emergent (PEM), palustrine scrub-shrub (PSS), and palustrine forested (PFO) wetlands.

<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.

Some wetlands contained co-dominant emergent, scrub-shrub, or forested vegetation. Open water areas were identified as palustrine unconsolidated bottom (PUB), lacustrine limnetic unconsolidated bottom (L1UB), and lacustrine littoral aquatic bed (L2AB).

#### 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 survey area 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 co-dominant 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 survey area includes cattails (*Typha* spp.), sedges (*Carex spp.*), goldenrods (*Solidago* spp.), spotted joe-pye-weed (*Eupatorium maculatum*), reed canary grass (*Phalaris arundinacea*), scouring rush (*Equisetum hyemale*), 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., 2002). Emergent vegetation observed within deep emergent marshes in the Project survey area 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.

CHPE – Appendix M – Wetland Delineation Report CHA Project No. 066076 Case 10-T-0139 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 highway 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 survey area were dominated by silky dogwood (*Cornus amomum*), gray dogwood (*Cornus racemosa*), and honeysuckle (*Lonicera spp.*). Other vegetation observed includes black willow (*Salix nigra*), gray birch (*Betula populifolia*), weeping crack willow (Salix *babylonica*), and nannyberry (*Viburnum lentago*). 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 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 survey area include red maple hardwood swamps, floodplain forest, and silver maple-ash swamps (Edinger et al., 2014). PFO 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.

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 survey area include green and white ash (*Fraxinus pennsylvanica and F. americana*), American elm (*Ulmus americana*), northern red oak (*Quercus rubra*), swamp white oak (*Quercus bicolor*), red maple (*Acer rubrum*), and white pine (*Pinus strobus*). Shrub species commonly observed

within red maple-hardwood swamps in the Project survey area include dogwoods, gray birch and honeysuckle, The herbaceous layer typically includes sensitive fern, cinnamon fern (*Osmundastrum cinnamomeum*) tussock sedge (*Carex stricta*), goldenrods, and reed canary grass. Invasive species observed within red maple-hardwood forests included honeysuckle, buckthorn, and reed canary grass.

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 survey area include green ash, cottonwood (*Populus deltoides*), red maple, American elm, and swamp white oak (*Quercus bicolor*). Shrubs included dogwoods, honeysuckle, and gray birch. Sensitive fern, cinnamon fern, goldenrods, horsetail, and sedges were commonly found in the herbaceous layer. Invasive honeysuckles and buckthorns were also observed in floodplain forests within the Project survey area.

Silver maple-ash swamps occur in poorly drained depressions or along the borders of large lakes and, less frequently, in poorly drained soils along rivers. Ash-elm dominated swamps with little or no silver maple (red maple may be present) are currently included as part of this community type (Edinger et. al., 2002). Tree species observed within this community within the Project survey area include green ash, elms, swamp white oak and cottonwood. Shrub species observed included silky and gray dogwood, as well as willows (*Salix spp.*). The herbaceous layer typically included tussock sedge, jewelweed (*Impatiens capensis*), cattails, goldenrods, sensitive fern, and rough and field horsetail (*Equisetum hyemale* and *E. arvense*). Invasive species observed within silver maple-ash swamps included honeysuckles and buckthorns.

#### 4.1.4 Open Water

Besides vegetated wetlands, a few scattered small ponds are located along the transmission cable corridor, adjacent to the railroad and highway ROWs as are streams and Lake Champlain. As previously noted, open water communities are identified as palustrine unconsolidated bottom (PUB), lacustrine limnetic unconsolidated bottom (L1UB), and lacustrine littoral aquatic bed (L2AB). These communities are characterized by a vegetation cover of less than 30 percent, although there may often be emergent or shrubby vegetation bordering the open water areas. 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 (*Carex spp.*) Pond substrates may be silt, mud, cobble or sand.

#### 4.2 HYDROLOGY

#### 4.2.1 Streams

Table 4-2 lists the 53 streams (perennial (27), intermittent (26)) 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 and the Green Mountains in Vermont. Perennial waterbodies within the Project Corridor in this watershed include Pine Lake Brook, South Bay of Lake Champlain, Halfway Creek, abandoned sections of the Champlain Canal, as well as unnamed tributaries connected to these watersheds identified on USGS Topographic Maps and/or identified during the field delineation.

#### 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 United States Department of Agriculture (USDA) Natural Resources Conservation Service (NRCS) soil map units for the Project Corriodor provided in Attachment 3. Indicators of hydric soils included muck or evidence of gleied 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 21 different soil types have been 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) (Section 4.4 and Attachment 4, Table 4-3), six (6) of the soils mapped\_within the Project Corridor are classified as hydric soils (Carlisle muck, Catden muck, Covington silty clay loam, Limerick silt loam, 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 survey area 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 2021). Soils survey mapping and additional information regarding relevant soil characteristics are provided in Attachment 3.

#### Carlisle Series (Ca)

These deep and very poorly drained organic soils 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 are similar to the surface layers.

#### **Charlton Series (CHC & CHE)**

These deep, well drained soils formed in glacial till from syenite and granite gneiss. Slopes range from 0 to 50 percent. The A horizon is very dark grayish-brown sandy loam 2 inches thick. It has a weak granular structure. The upper 5 inches of the B horizon is dark-brown sandy loam, and the lower 21 inches is yellowish-brown sandy loam. The B horizon has weak subangular blocky structure. The C horizon is light olive brown sandy loam with pockets of loamy sand. The horizon is massive.

#### Claverack Series (CIA & CIB)

These 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.

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

These 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)**

These 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.

#### **Hartland Series (HcB &HcC)**

These deep, well-drained medium textures 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 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 is yellowishbrown fine sandy loam. The B horizon has weak granular or weak blocky structure. Bedrock is at a depth of 19 inches.

#### **Hoosic Series (HSDK)**

These very deep, somewhat excessively drained soils formed in glacial outwash plains, valley trains, and related terraces, kames, eskers, and water sorted parts of moraines. Slopes range from 0 to 60 percent. The A horizon is dark grayish brown gravelly sandy loam with granular to subangular blocky structure. The B horizon is yellowish brown gravelly sandy loam. The structure is granular or subangular blocky, and some sub horizons have single grain and loose structure. The BC horizon is yellowish brown very gravelly loamy sand with granular structure. The C horizon is light olive brown and dark grayish brown. The texture is loamy sand to coarse sand, and the horizon has a single grain and loose structure.

#### **Hudson Series (HWE)**

These 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 very deep, somewhat poorly drained soils formed in clayey glacio-marine or glaciolacustrine 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 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.

#### Oakville Series (OaB)

These very deep and well drained or moderately well drained soils 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.

#### Pits, gravel and Sand (Pr)

This soil consists of areas that have been excavated for sand or gravel. The areas are mostly on broad outwash plains and terraces of stream valleys. These soils are somewhat excessively drained. These areas have sparse vegetation consisting of Xerophytic plants. Slopes range mostly from 0 to 25 percent and steep escarpments are along the edges of the pits. A few areas have bedrock outcrops and small bodies of water, and a few are used for parking lots and buildings. This unit consists mostly of sand or sand and gravel. In places, the water table is at or near the surface most of the year. A few areas are adjacent to streams and are subject to flooding. Areas of this unit require onsite investigation and evaluation for most uses.

#### Rock outcrop (ROF & RPC)

Areas mapped as rock outcrop consist of bare bedrock covering 90 percent of the surface. Where mapped with Hollis soils, it typically consists of exposures of syenite or granite gneiss, and in places, quartzite.

#### Saco Series (Sa)

These 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 very deep, moderately well drained soils formed in calcareous estuarine and glaciolacustrine 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 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, floodplain forests and silver maple-ash swamps. Small ponds, artificial ditches, and watercourses, including small intermittent streams to the South Bay of Lake Champlain, occur within the Project Corridor of the Project.

Land use in the Project Corridor is diverse, ranging from rural, agricultural, and forested areas to more developed areas such as the Village of Whitehall. In general, because a portion of the Project is routed along existing railroad corridors and state highways, many wetlands within the Project Corridor are characterized by previous anthropogenic disturbance and/or the presence of invasive plant species. The Project Corridor frequently is located along the edge between the disturbed railroad or highway corridor and more natural vegetated wetland communities that are present adjacent to the railroad and highway rights-of-way. The wetland boundaries in the Project Corridor are most often defined by the edge of the soil fill for the railroad and highway embankments.

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 Phase 1 are regulated by USACE (Section 10/404), NYSDEC (Article 24), and the APA (Article 24). Streams and other waterbodies are regulated by USACE (Section 10/404) and NYSDEC (Article 15). Based on review of the NYSDEC and APA wetland mapping, 7 delineated wetlands areas are identified as regulated under Article 24. These wetlands correspond to 2 mapped wetlands regulated by NYSDEC. No mapped APA wetlands were identified within the Project Corridor. It is anticipated that USACE will take jurisdiction over all the mapped wetlands within the Project Corridor. Final jurisdictional determinations will be made by the respective agencies.

#### 6.0 REFERENCES

- Browne, S. et. al. 1995. New York State Freshwater Wetlands Delineation Manual. New York State Department of Environmental Conservation, Division of Fish and Wildlife, Bureau of Habitat, Albany, NY.
- 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.
- 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.
- Federal Register. July 13, 1994. Changes in hydric soils of the United States.
- Natural Resources Conservation Service (NRCS), United States Department of Agriculture (USDA). Web soil Survey. Map Unit Descriptions. Accessed online December 15, 2021: https://websoilsurvey.nrcs.usda.gov/app/.
- United States Army Corps of Engineers. 1987 Wetland Delineation Manual. Technical Report Y-87-1. Experimental Laboratory, Vicksburg, MS.
- 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/Co	ounty: Putnam / Washington	Sampling Date: 10/11/21			
Applicant/Owner: TDI		State: NY	Sampling Point: WET CA-5			
Investigator(s): C. Scrivner, J. Greaves		Section, Township, Range:				
Landform (hillside, terrace, etc.): Depression	Local relief (cc	oncave, convex, none): Concave	Slope %:1_			
Subregion (LRR or MLRA): LRR R		Long: 73-22-29.43W	Datum: WGS 84			
Soil Map Unit Name: Sa - Saco silt loam		NWI classification:	PFO1			
Are climatic / hydrologic conditions on the site ty	pical for this time of year?	Yes X No (If no, e	explain in Remarks.)			
Are Vegetation, Soil, or Hydrold	gy significantly disturbed?	Are "Normal Circumstances" pres				
Are Vegetation, Soil, or Hydrold		(If needed, explain any answers in				
SUMMARY OF FINDINGS – Attach s		, ,	,			
Hydrophytic Vegetation Present?	Yes X No Is the	e Sampled Area				
		e Sampled Area in a Wetland? Yes X	No			
*		s, optional Wetland Site ID: Near fla				
Palustrine forested wetland dominated by east	rn cottonwood. Edinger ciassification	ı: Red mapie-nardwood swamp.				
HYDROLOGY						
Wetland Hydrology Indicators:		Secondary Indicators (ı	minimum of two required)			
Primary Indicators (minimum of one is required	; check all that apply)	Surface Soil Crack	s (B6)			
Surface Water (A1)	Water-Stained Leaves (B9)	Drainage Patterns	(B10)			
High Water Table (A2)	Aquatic Fauna (B13)	Moss Trim Lines (E	316)			
Saturation (A3)	Marl Deposits (B15)	Deposits (B15) Dry-Season Water Table (C2)				
Water Marks (B1)	Hydrogen Sulfide Odor (C1)	Crayfish Burrows (	·			
<del></del>	X Oxidized Rhizospheres on Living		on Aerial Imagery (C9)			
Drift Deposits (B3)	Presence of Reduced Iron (C4)	Stunted or Stresse	, ,			
Algal Mat or Crust (B4)	Recent Iron Reduction in Tilled S	· ' —	` ′			
Iron Deposits (B5)	Thin Muck Surface (C7)	Shallow Aquitard (I	,			
Inundation Visible on Aerial Imagery (B7)	Other (Explain in Remarks)	Microtopographic F				
Sparsely Vegetated Concave Surface (B8)		X FAC-Neutral Test (	D5)			
Field Observations:	TO STATE OF THE ST					
<del></del>	No X Depth (inches):	-				
	No X Depth (inches):  No X Depth (inches):	Wetland Hydrology Present?	Yes X No			
(includes capillary fringe)	NO A Dopin (mones).	- Welland Hydrology 1 1000	163 <u>/ 110</u>			
Describe Recorded Data (stream gauge, monit	oring well, aerial photos, previous ins	 :nections). if available:				
2000,122 112221222 = 2.1.1 (2.1.2.1 3.1.3 )	viiig (1-1), 1-1-1-1-1	positor.2,, 2 2				
Remarks:						

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

<b>EGETATION</b> – Use scientific names of pla	ants.			Sampling Po	int: WET C	;A-5	
Free Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:			
. Rhamnus cathartica	30	Yes	FAC	Number of Dominant Species			
. Populus deltoides	30	Yes	FAC	That Are OBL, FACW, or FAC:	6	(A)	
. Ulmus americana	10	No	FACW	Total Number of Dominant			
				Species Across All Strata:	7	_(B)	
i				Percent of Dominant Species			
i				That Are OBL, FACW, or FAC:	85.7%	_ (A/B	
:				Prevalence Index worksheet:			
	70	=Total Cover		Total % Cover of:	Multiply by:		
Sapling/Shrub Stratum (Plot size:15')				OBL species 0 x	1 =0		
. Rhamnus cathartica	35	Yes	FAC	FACW species 39 x	2 = 78		
Cornus amomum	10	No	FACW	FAC species 109 x	3 = 327		
3. Ulmus americana	8	No	FACW	FACU species15 x	4 = 60		
Lonicera morrowii	5	No	FACU	UPL species 0 x	5 = 0		
. Quercus bicolor	2	No	FACW	Column Totals: 163 (A	465	(B	
i.				Prevalence Index = B/A =	2.85		
				Hydrophytic Vegetation Indicate	ors:		
	60	=Total Cover		1 - Rapid Test for Hydrophytic	C Vegetation		
Herb Stratum (Plot size: 5' )		_		X 2 - Dominance Test is >50%	•		
Rhamnus cathartica	8	Yes	FAC	X 3 - Prevalence Index is ≤3.0 <sup>1</sup>			
2. Cornus racemosa	5	Yes	FAC	4 - Morphological Adaptations <sup>1</sup> (Provide supportin			
3. Lysimachia nummularia	5	Yes	FACW	data in Remarks or on a separate sheet)			
. Ulmus americana	3	No	FACW	<ul> <li>Problematic Hydrophytic Vegetation<sup>1</sup> (Explain)</li> </ul>			
. Quercus bicolor	1	No	FACW	<u> </u>			
S. Equisetum hyemale	1	No	FAC	<sup>1</sup> Indicators of hydric soil and wetla present, unless disturbed or probl		must t	
				Definitions of Vegetation Strata			
				Tree – Woody plants 3 in. (7.6 cm at breast height (DBH), regardles:		liamete	
0.	-						
1.				Sapling/shrub – Woody plants le and greater than or equal to 3.28		DBH	
2.							
	23	=Total Cover		<b>Herb</b> – All herbaceous (non-wood of size, and woody plants less that	• • • •	ardles	
Noody Vine Stratum (Plot size: 30' )							
. Vitis aestivalis	10	Yes	FACU	<b>Woody vines</b> – All woody vines g height.	reater than 3.	28 ft in	
		163	1 700	noight.			
3.				Hydrophytic			
				Vegetation	No		
i		Tatal O		Present? Yes X	No		
	10	=Total Cover		1			

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

Profile Description: (Describe to the d Depth Matrix		o the dep		x Featur			min the absence of	maioator 3. <sub>j</sub>		
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks		
0-5	2.5Y 3/2	98	2.5Y 5/4	2	С	M	Loamy/Clayey	Distinct redox concentrations		
5-10	2.5Y 4/2	75	2.5Y 5/3	8	D	M	Loamy/Clayey			
			2.5Y 5/6	15	С	M		Prominent redox concentrations		
			10YR 2/2	2	С	PL		Distinct redox concentrations		
10-17	2.5Y 5/2	80	10YR 2/1	5	С	М	Loamy/Clayey	Prominent redox concentrations		
			10YR 4/6	15	С	M		Prominent redox concentrations		
	oncentration, D=Deple	etion, RM	=Reduced Matrix, M	IS=Mask	ed Sand	Grains.		PL=Pore Lining, M=Matrix.		
Hydric Soil Indicators:  Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) X Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7)			Polyvalue Below Surface (S8) (LRR R, MLRA 149B) Thin Dark Surface (S9) (LRR R, MLRA 1 High Chroma Sands (S11) (LRR K, L) Loamy Mucky Mineral (F1) (LRR K, L) Loamy Gleyed Matrix (F2) X Depleted Matrix (F3) Redox Dark Surface (F6) Depleted Dark Surface (F7) Redox Depressions (F8) Marl (F10) (LRR K, L)				Polyvalue Below Surface (S8) (LRR K, L) Thin Dark Surface (S9) (LRR K, L)  Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Red Parent Material (F21) Very Shallow Dark Surface (F22) Other (Explain in Remarks)			
Remarks:								<del></del>		



Wetland CA-5 View facing north



Wetland CA-5 Soils

# Phase 1

# **SITE PHOTOGRAPHS**

**Champlain Hudson Power Express** 

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

Project/Site: CHPE	City/County: Putnam / Washington Sampling Date: 10/11/21
Applicant/Owner: TDI	State: NY Sampling Point: WET CA-6
Investigator(s): C. Scrivner, J. Greaves	Section, Township, Range:
Landform (hillside, terrace, etc.): Depression Local	relief (concave, convex, none): Concave Slope %: 0
Subregion (LRR or MLRA): LRR R Lat: 43-44-4.72N	Long: 73-22-30.07W Datum: WGS 84
Soil Map Unit Name: Sa - Saco silt loam	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 distur	
Are Vegetation, Soil, or Hydrologynaturally problems	
——————————————————————————————————————	npling point locations, transects, important features, etc.
SUMMART OF FINDINGS - Attach Site map showing sam	npling point locations, transects, important reatures, 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 CA-6
Remarks: (Explain alternative procedures here or in a separate report.) Palustrine Emergent Marsh dominated by common duckweed and America	an burreed. Edinger classification: Shallow Emergent Marsh.
	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)
X Surface Water (A1) 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	
Drift Deposits (B3) Presence of Reduced In	· , ,
Algal Mat or Crust (B4)Recent Iron Reduction in	
Iron Deposits (B5) Thin Muck Surface (C7)	· · · · · ·
X Inundation Visible on Aerial Imagery (B7) Other (Explain in Remar	
Sparsely Vegetated Concave Surface (B8)	X FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes X No Depth (inches)	
Water Table Present? Yes X No Depth (inches)	
Saturation Present? Yes X No Depth (inches)	: 0 Wetland Hydrology Present? Yes X No
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	evious inspections), if available:
Remarks:	
A culvert connects wetland CA to wetland CB.	

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

VEGETATION – Use scientific names of pl	ants.			Sampling	Point:	WET C	A-6
<u>Tree Stratum</u> (Plot size:)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:			
1. Salix nigra	5	Yes	OBL	Number of Dominant Species			
2. Rhamnus cathartica	5	Yes	FAC	That Are OBL, FACW, or FAC	:	5	(A)
3.				Total Number of Dominant			
4				Species Across All Strata:		7	_(B)
5		· ——		Percent of Dominant Species That Are OBL, FACW, or FAC	:	71.4%	(A/B)
7.				Prevalence Index worksheet	:		
	10	=Total Cover		Total % Cover of:	М	ultiply by:	
Sapling/Shrub Stratum (Plot size: 15' )		•		OBL species 110	x 1 =	110	
1. Cornus sericea	5	Yes	FACW	FACW species 20	x 2 =	40	
2. Rhamnus cathartica	3	Yes	FAC	FAC species 8	x 3 =	24	
3.				FACU species 6	x 4 =	24	
4.				UPL species 0	x 5 =	0	
5.				Column Totals: 144	(A)	198	(B)
6.				Prevalence Index = B/A	A =	1.38	
7.				Hydrophytic Vegetation Indi	cators:		
	8	=Total Cover		1 - Rapid Test for Hydroph	nytic Ve	getation	
Herb Stratum (Plot size:5')				X 2 - Dominance Test is >50	)%		
1. Lemna minor	70	Yes	OBL	X 3 - Prevalence Index is ≤3	.0 <sup>1</sup>		
2. Sparganium americanum	20	No	OBL	4 - Morphological Adaptations (Provide suppor			
3. Lysimachia nummularia	10	No	FACW	data in Remarks or on a separate sheet)			
4. Zizania aquatica	10	No	OBL	Problematic Hydrophytic \	/egetation	on¹ (Expla	in)
5. Persicaria amphibia	5	No	OBL	<sup>1</sup> Indicators of hydric soil and w	etland h	ıvdroloav r	must be
6. Onoclea sensibilis	5	No	FACW	present, unless disturbed or pr			
7				Definitions of Vegetation Str	ata:		
8				Tree – Woody plants 3 in. (7.6	cm) or	more in di	ameter
9				at breast height (DBH), regard			
10				Sapling/shrub – Woody plant	s less th	an 3 in. D	вн
11				and greater than or equal to 3	.28 ft (1	m) tall.	
12				Herb – All herbaceous (non-w	oody) p	ants, rega	ırdless
	120	=Total Cover		of size, and woody plants less	than 3.2	28 ft tall.	
Woody Vine Stratum (Plot size:30')				Woody vines – All woody vine	es greate	er than 3.2	28 ft in
Parthenocissus quinquefolia	3	Yes	FACU	height.			
2. <u>Vitis aestivalis</u>	3	Yes	FACU	Hydrophytic			
3				Vegetation			
4		·		Present? Yes X	No		
	6	=Total Cover					

Trees and shrubs were growing along the outer edges of the open water marsh community.

SOIL Sampling Point: WET CA-6

Depth	Matrix	tne aept		ment th x Featur		or or con	firm the absence of indicato	rs.)
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
			, ,					
<sup>1</sup> Type: C=Co	oncentration, D=Deple	tion RM=	Reduced Matrix M	S=Mask	ed Sand	Grains	<sup>2</sup> Location: PL=Pore L	ining M=Matrix
Hydric Soil I		<u></u>	rtoddod Matrix, W	O-Maon	oa oana	Oranio.		ematic Hydric Soils <sup>3</sup> :
Histosol			Polyvalue Belo	w Surfac	e (S8) ( <b>L</b>	.RR R,		(LRR K, L, MLRA 149B)
	ipedon (A2)	_	 MLRA 149B		, , ,	·		dox (A16) ( <b>LRR K, L, R</b> )
Black His			Thin Dark Surf	ace (S9)	(LRR R,	MLRA 14		or Peat (S3) (LRR K, L, R)
Hydroge	n Sulfide (A4)	_	High Chroma S	Sands (S	11) (LRR	R K, L)	Polyvalue Below	Surface (S8) (LRR K, L)
Stratified	Layers (A5)	_	Loamy Mucky	Mineral (	F1) ( <b>LRF</b>	R K, L)	Thin Dark Surface	e (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 Matri	x (F3)			Piedmont Floodp	lain Soils (F19) (MLRA 149B)
Sandy M	ucky Mineral (S1)	_	Redox Dark Su	ırface (F	6)		Mesic Spodic (TA	(MLRA 144A, 145, 149B)
Sandy G	leyed Matrix (S4)	_	Depleted Dark	Surface	(F7)		Red Parent Mate	rial (F21)
Sandy R	edox (S5)	-	Redox Depres		3)		Very Shallow Dar	
	Matrix (S6)	_	Marl (F10) ( <b>LR</b>	R K, L)			X Other (Explain in	Remarks)
Dark Sur	face (S7)							
2								
	hydrophytic vegetatio	n and wet	land hydrology mu	st be pre	sent, unl	ess disturl	bed or problematic.	
	.ayer (if observed):	_						
Type:	None	<u>,                                      </u>						
Depth (ir	nches):						Hydric Soil Present?	Yes X No
Remarks:								
No soils were	e taken. Open water m	arsh dom	inated by OBL and	FACW	species.			



Wetland CA-6 View facing west



Wetland CA-6 No Soils collected due to open water dominated by OBL and FACW species.

# Phase 1

# **SITE PHOTOGRAPHS**

**Champlain Hudson Power Express** 

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

City/County: Putnam / Washington Sampling Date: 10/11/21				
State: NY Sampling Point: WET CB-4				
Section, Township, Range:				
relief (concave, convex, none): Concave Slope %: 2				
Long: 73-22-28.49W Datum: WGS 84				
NWI classification: PEM1				
Yes X No (If no, explain in Remarks.)				
bed? Are "Normal Circumstances" present? Yes X No				
atic? (If needed, explain any answers in Remarks.)				
npling point locations, transects, important features, etc.				
Is the Sampled Area				
within a Wetland? Yes X No				
If yes, optional Wetland Site ID: Near flag CB-4				
sification: Shallow Emergent Marsh.				
Secondary Indicators (minimum of two required)				
Surface Soil Cracks (B6)				
B9) Drainage Patterns (B10)				
Moss Trim Lines (B16)				
Dry-Season Water Table (C2)				
C(C1) Crayfish Burrows (C8)				
on Living Roots (C3) Saturation Visible on Aerial Imagery (C9)				
on (C4) Stunted or Stressed Plants (D1)				
in Tilled Soils (C6)  X Geomorphic Position (D2)  Shallow Aquitard (D3)				
Shallow Aquitard (D3)  Microtopographic Relief (D4)				
ks)Microtopographic Relief (D4)				
X FAC-Neutral Test (D5)				
$\frac{12}{2}$				
United States St				
Wetland Hydrology Present? Yes X No				
evious inspections), if available:				
vious inspections), ii avaliable.				
than 1 Second Here than 1 Second				

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

VEGETATION – Use scientific names of p	Absolute	Dominant	Indicator			-		
Tree Stratum (Plot size:)	% Cover	Species?	Status	Dominance Test	worksheet:			
Fraxinus pennsylvanica	10	Yes	FACW	Number of Domin	•			
2. Ulmus americana	3	Yes	FACW	That Are OBL, FA	CW, or FAC:		5	_(A)
3.		·		Total Number of D				
4.		·		Species Across A	ll Strata:		6	_(B)
5. 6.				Percent of Domini That Are OBL, FA		8	33.3%	(A/B)
7.				Prevalence Index	worksheet:			_
	13	=Total Cover		Total % Cov	er of:	Mu	ıltiply by:	
Sapling/Shrub Stratum (Plot size: 15'	_)	•		OBL species	106 >	<1 =	106	
1. Cornus sericea	10	Yes	FACW	FACW species	46 >	(2=	92	
2. Rhamnus cathartica	2	No	FAC	FAC species	7 >	3 =	21	
3.				FACU species	5	< 4 =	20	
4.				UPL species	0 >	< 5 =	0	
5.				Column Totals:	164 (	A)	239	(B)
6.				Prevalence	Index = B/A =	=	1.46	
7.				Hydrophytic Veg	etation Indica	tors:		
	12	=Total Cover		1 - Rapid Tes	t for Hydrophyt	tic Veç	etation	
Herb Stratum (Plot size:5' )				X 2 - Dominano	e Test is >50%	·		
1. Lemna minor	65	Yes	OBL	X 3 - Prevalenc	e Index is ≤3.0	1		
2. Leersia oryzoides	15	Yes	OBL	4 - Morphological Adaptations <sup>1</sup> (Provide support			porting	
3. Lysimachia nummularia	10	No	FACW	data in Remarks or on a separate sheet)				
4. Bidens frondosa	8	No	FACW	Problematic H	Hydrophytic Ve	getatio	on <sup>1</sup> (Expla	in)
5. Typha latifolia	8	No	OBL	<sup>1</sup> Indicators of hydi	ic soil and wet	land h	vdrology i	must he
6. Persicaria amphibia	5	No	OBL	present, unless di			, ,,	muot be
7. Sparganium americanum	5	No	OBL	Definitions of Ve	getation Strat	a:		
8. Equisetum arvense	5	No	FAC	Tree – Woody pla	ints 3 in (7.6 c	m) or i	more in di	iameter
9. Lysimachia ciliata	5	No	FACW	at breast height (I	,	,		
10. Zizania aquatica	5	No	OBL	Sapling/shrub –	Woody plants I	ess th	an 3 in D	BH
11. Lythrum salicaria	3	No	OBL	and greater than				
12.	_			Herb – All herbac	eous (non-woo	ndv) nl	ants rega	ardless
	134	=Total Cover		of size, and wood	`	,,,	, 0	
Woody Vine Stratum (Plot size:30'	_)			Woody vines – A	ll woody vines	areate	er than 3.2	28 ft in
Vitis aestivalis	5	Yes	FACU	height.		9.04.0		
2	_							
3.	_			Hydrophytic Vegetation				
4	_			•	Yes X	No		
	5	=Total Cover						

Remarks: (Include photo numbers here or on a separate sheet.)
The trees and shrus were observed growing on the banks surrounding the marsh.

SOIL Sampling Point: WET CB-4

		the dep				or or co	nfirm the absence of indicat	ors.)		
Depth	Matrix			x Featur		. 2	_			
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks		
1							2			
	ncentration, D=Deple	tion, RM:	=Reduced Matrix, M	S=Mask	ed Sand	Grains.	<sup>2</sup> Location: PL=Pore	_		
Hydric Soil Ir Histosol (			Polyvalue Belo	w Surfac	o (S9) (I	DD D		lematic Hydric Soils <sup>3</sup> :		
	pedon (A2)		MLRA 149B		,e (30) ( <b>L</b>	.ixix ix,		)) ( <b>LRR K, L, MLRA 149B</b> ) 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							
	Layers (A5)		Loamy Mucky I					ce (S9) ( <b>LRR K, L</b> )		
	Below Dark Surface	(A11)	Loamy Gleyed			, ,		e Masses (F12) (LRR K, L, R)		
	k Surface (A12)	,	Depleted Matrix	•	,			plain Soils (F19) (MLRA 149B)		
	ucky Mineral (S1)		Redox Dark Su	, ,	6)			A6) (MLRA 144A, 145, 149B)		
	eyed Matrix (S4)		Depleted Dark	•	•		Red Parent Mat			
Sandy Re			Redox Depress		` '			ark Surface (F22)		
	Matrix (S6)		 Marl (F10) ( <b>LR</b>	•	,		X Other (Explain in			
Dark Surf	ace (S7)						<del></del>			
<sup>3</sup> Indicators of	hydrophytic vegetatio	n and we	etland hydrology mus	st be pre	sent, unle	ess distur	bed or problematic.			
	ayer (if observed):									
Type:	None	9								
Depth (in	ches):						Hydric Soil Present?	Yes X No		
Remarks:										
No soils taker	n. Open water marsh	commun	ity consisting of dom	ninant ve	getation	that was	OBL and FACW species.			



Wetland CB-4 View facing south



Wetland CB-4 No Soils collected due to open water dominated by OBL and FACW species.

Phase 1

# **SITE PHOTOGRAPHS**

**Champlain Hudson Power Express** 

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

Project/Site: CHPE	City/County: Putmam / Washington Sampling Date: 10/11/21
Applicant/Owner: TDI	State: NY Sampling Point: UPL
Investigator(s): C. Scrivner, J. Greaves	Section, Township, Range:
Landform (hillside, terrace, etc.): Hillslope Local	relief (concave, convex, none): Concave Slope %: 2
Subregion (LRR or MLRA): LRR R Lat: 43-44-5.08N	Long: 73-22-28.24W Datum: WGS 84
Soil Map Unit Name: Sa - Saco silt loam	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 Hydrologynaturally problems	
SUMMARY OF FINDINGS – Attach site map showing san	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:
Successional Northern Hardwoods. This upland point is for wetlands CA-5,	
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	
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 Iro	
Algal Mat or Crust (B4)Recent Iron Reduction in	
Iron Deposits (B5) Thin Muck Surface (C7)	• • • • •
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remar	<u> </u>
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No _X Depth (inches):	
Water Table Present? Yes No X Depth (inches):	
Saturation Present? Yes No X Depth (inches):	:   Wetland Hydrology Present? Yes No _X
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	evious inspections), if available:
Remarks:	

Trace Christians (Diet =: COI)	Absolute	Dominant	Indicator	Deminance Test weeks to st		
ree Stratum (Plot size: 30')	% Cover	Species?	Status	Dominance Test worksheet:		
Betula alleghaniensis	20	Yes	FAC	Number of Dominant Species		
. Juniperus virginiana	8	Yes	FACU	That Are OBL, FACW, or FAC:	4 (A)	
. Carya ovata	8	Yes	FACU	Total Number of Dominant		
. Rhus typhina	5	No	<u>UPL</u>	Species Across All Strata:	13 (B)	
i		<del></del>		Percent of Dominant Species		
·					).8% (A/B	
·	-	·		Prevalence Index worksheet:		
	41	=Total Cover			iply by:	
Sapling/Shrub Stratum (Plot size:15')				OBL species 0 x 1 =	0	
. Lonicera morrowii	15	Yes	FACU	FACW species 5 x 2 =	10	
Rhus typhina	5	No	UPL	FAC species 40 x 3 =	120	
Rhamnus cathartica	5	No	FAC	FACU species 62 x 4 =	248	
4. Syringa vulgaris	3	No	UPL	UPL species 31 x 5 =	155	
i	-			Column Totals: 138 (A)	533 (B	
i				Prevalence Index = B/A =	3.86	
·				Hydrophytic Vegetation Indicators:		
	28	=Total Cover		1 - Rapid Test for Hydrophytic Veget	tation	
Herb Stratum (Plot size:)				2 - Dominance Test is >50%		
. Plantago lanceolata	10	Yes	FACU	3 - Prevalence Index is ≤3.0 <sup>1</sup>		
Artemisia vulgaris	10	Yes	UPL	4 - Morphological Adaptations <sup>1</sup> (Prov		
Symphyotrichum lowrieanum	8	Yes	UPL	data in Remarks or on a separate	: sheet)	
. Pinus strobus	5	Yes	FACU	Problematic Hydrophytic Vegetation	<sup>1</sup> (Explain)	
Equisetum arvense	5	Yes	FAC	- Indicators of hydric soil and wetland hydrology must		
S. Solidago rugosa	5	Yes	FAC	present, unless disturbed or problematic.		
. Lysimachia nummularia	5	Yes	FACW	Definitions of Vegetation Strata:		
. Achillea millefolium	5	Yes	FACU	Tree – Woody plants 3 in. (7.6 cm) or mo	ore in diamete	
. Betula alleghaniensis	3	No	FAC	at breast height (DBH), regardless of hei		
0. Acer saccharum	3	No	FACU	Sapling/shrub – Woody plants less than	n 3 in. DBH	
Parthenocissus quinquefolia	3	No	FACU	and greater than or equal to 3.28 ft (1 m)		
2. Setaria pumila	2	No	FAC	Herb – All herbaceous (non-woody) plan	nte renardles	
	64	=Total Cover		of size, and woody plants less than 3.28		
Noody Vine Stratum (Plot size: 30')				Woody vines – All woody vines greater	than 3 28 ft in	
. Vitis aestivalis	5	Yes	FACU	height.	triair 5.20 it iii	
				Hydrophytic		
				Vegetation Present? Yes No	Χ	
	5	=Total Cover				

SOIL Sampling Point: UPL Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Redox Features Loc2 Color (moist) Color (moist) (inches) Texture Remarks 10YR 2/1 0-8 100 Loamy/Clayey <sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. <sup>2</sup>Location: PL=Pore Lining, M=Matrix. **Hydric Soil Indicators:** Indicators for Problematic Hydric Soils<sup>3</sup>: 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) Piedmont Floodplain Soils (F19) (MLRA 149B) Thick Dark Surface (A12) Depleted Matrix (F3) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Mucky Mineral (S1) Redox Dark Surface (F6) Sandy Gleyed Matrix (S4) Depleted Dark Surface (F7) Red Parent Material (F21) Sandy Redox (S5) Redox Depressions (F8) Very Shallow Dark Surface (F22) Stripped Matrix (S6) Marl (F10) (LRR K, L) 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: Depth (inches): **Hydric Soil Present?** No X Yes Remarks: Hit rock at 8 inches. Consisted of old fill material.

US Army Corps of Engineers



Upland CA-5, CA-6 and CB-4 View facing west



Upland CA-5, CA-6 and CB-4 Soils

Phase 1

## **SITE PHOTOGRAPHS**

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

Project/Site: CHPE	City/County: Putnam / Washington Sampling Date: 10/12/21
Applicant/Owner: TDI	State: NY Sampling Point: WET CC-2
Investigator(s): C. Scrivner, J. Greaves	Section, Township, Range:
Landform (hillside, terrace, etc.): Linear ditch Local	relief (concave, convex, none): Concave Slope %: 1
Subregion (LRR or MLRA): LRR R Lat: 43-43-51.42N	Long: 73-22-41.86W Datum: WGS 84
Soil Map Unit Name: VeC - Vergennes silty clay loam, 6 to 12 percent slop	pes 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 distur	
Are Vegetation, Soil, or Hydrologynaturally problems	
	npling point locations, transects, important features, etc.
, , , , , , , , , , , , , , , , , , ,	1
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 Remarks: (Explain alternative procedures here or in a separate report.)	If yes, optional Wetland Site ID: Near flag CC-2
Palustrine Emergent Marsh dominated by purple loosestrife. Edinger classi	induidit. Criation Emergent March.
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)
X Saturation (A3) Marl Deposits (B15)	Dry-Season Water Table (C2)
Water Marks (B1) Hydrogen Sulfide Odor (	
Sediment Deposits (B2)  X Oxidized Rhizospheres	
Drift Deposits (B3) Presence of Reduced Iro	
Algal Mat or Crust (B4)Recent Iron Reduction in	
Iron Deposits (B5) Thin Muck Surface (C7)	• • • • •
Inundation Visible on Aerial Imagery (B7)Other (Explain in Remar	
Sparsely Vegetated Concave Surface (B8)	X 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 X No Depth (inches):	: 6 Wetland Hydrology Present? Yes X No
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	evious 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.		·		Total Number of Dominant Species Across All Strata: (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 <u>45</u> x 1 = <u>45</u>
1				FACW species 20 x 2 = 40
2.				FAC species 0 x 3 = 0
3.				FACU species 25 x 4 = 100
4.				UPL species10 x 5 =50
5.				Column Totals: 100 (A) 235 (B)
6.				Prevalence Index = B/A = 2.35
7.		· ·		Hydrophytic Vegetation Indicators:
		=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5' )				X 2 - Dominance Test is >50%
1. Lythrum salicaria	45	Yes	OBL	X 3 - Prevalence Index is ≤3.0 <sup>1</sup>
Solidago gigantea	20	Yes	FACW	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
Symphyotrichum ericoides	10	No	FACU	data in Remarks or on a separate sheet)
4. Lolium pratense	10	No	FACU	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5. Rubia peregrina	8	No	UPL	<del>-</del>
6. Cirsium arvense	5	No	FACU	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
7. Artemisia vulgaris	2	No	UPL	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.				
	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:)				Woody vines – All woody vines greater than 3.28 ft in
1				height.
2				Understadie
3				Hydrophytic Vegetation
4				Present?
		=Total Cover		
Remarks: (Include photo numbers here or on a separa	ate sheet.)			

Sampling Point: WET CC-2

SOIL Sampling Point: WET CC-2

Profile Desc Depth	cription: (Describe t Matrix	o the de		ment the x Feature		tor or co	nfirm the absence of	indicators.)	
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks	
0-7	2.5Y 4/1	95	10YR 3/3	5	С	PL	Loamy/Clayey	Distinct redox concentrations	
7-16	10YR 5/1	63	10YR 5/6	35	С	М	Loamy/Clayey	Prominent redox concentrations	
			10YR 2/1	2	С	М		Distinct redox concentrations	
								_	
								-	
<sup>1</sup> Type: C=Co	oncentration, D=Deple	etion, RM	=Reduced Matrix, M	S=Mask	ed Sand	Grains.	<sup>2</sup> Location: PI	L=Pore Lining, M=Matrix.	
Hydric Soil	Indicators:						Indicators fo	or 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)		/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 N					e Below Surface (S8) (LRR K, L) k Surface (S9) (LRR K, L)	
	d Below Dark Surface	(A11)	Loamy Gleyed			<b>( Ι(, L</b> )		iganese Masses (F12) (LRR K, L, R)	
	ark Surface (A12)	(,,,,,	X Depleted Matrix		_,		Piedmont Floodplain Soils (F19) (MLRA 149B)		
	lucky Mineral (S1)		Redox Dark Su		6)			podic (TA6) ( <b>MLRA 144A, 145, 149B</b> )	
	Gleyed Matrix (S4)		Depleted Dark					ent Material (F21)	
Sandy R	tedox (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 Su	rface (S7)								
3Indicators of	f hydrophytic vegetati	on and w	otland hydrology mus	st ha pro	cont unl	oce dietu	rhad or problematic		
	Layer (if observed):	on and w	etiand hydrology mus	st be pre	sent, uni	ess distu	rbed of problematic.		
Type:	Non	ne							
Depth (ir	nches):						Hydric Soil Presen	it? Yes X No	
Remarks:	<u></u>						<u> </u>		
. tomaino									



Wetland CC-2 View facing north



Wetland CC-2 Soils

# Phase 1

# SITE PHOTOGRAPHS

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

Project/Site: CHPE	City/County: Putnam / Washington Sampling Date: 10/12/21
Applicant/Owner: TDI	State: NY Sampling Point: UPL CC-2
Investigator(s): C. Scrivner, J. Greaves	Section, Township, Range:
	relief (concave, convex, none): None Slope %: 0
Subregion (LRR or MLRA): LRR R Lat: 43-43-51.32N	Long: 73-22-42.03W Datum: WGS 84
Soil Map Unit Name: VeC - Vergennes silty clay loam, 6 to 12 percent slop	
· · · · · · · · · · · · · · · · · · ·	
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 X No	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 (I	
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 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	ovicus inspections), if available:
Describe Recorded Data (stream gauge, monitoring well, aemai priotos, pre	evious inspections), ii avaliable.
Remarks:	

	Abaaluta	Dominant	Indicator	<u> </u>
ree Stratum (Plot size:30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
				Number of Dominant Species
				That Are OBL, FACW, or FAC: 0 (A)
				Total Number of Dominant
				Species Across All Strata: 2 (B)
				Percent of Dominant Species
				That Are OBL, FACW, or FAC: 0.0% (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 0 x 3 = 0
				FACU species 93 x 4 = 372
				UPL species 24 x 5 = 120
				Column Totals: 117 (A) 492 (E
				Prevalence Index = B/A = 4.21
				Hydrophytic Vegetation Indicators:
		=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
erb Stratum (Plot size: 5' )				2 - Dominance Test is >50%
Schedonorus pratensis	30	Yes	FACU	3 - Prevalence Index is ≤3.0 <sup>1</sup>
Lolium perenne	30	Yes	FACU	4 - Morphological Adaptations <sup>1</sup> (Provide supporti
Symphyotrichum ericoides	15	No	FACU	data in Remarks or on a separate sheet)
Pastinaca sativa	10	No	UPL	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
Lotus corniculatus	8	No	FACU	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
Artemisia vulgaris	8	No	UPL	present, unless disturbed or problematic.
Daucus carota	6	No	UPL	Definitions of Vegetation Strata:
Cirsium arvense	5	No	FACU	Tree – Woody plants 3 in. (7.6 cm) or more in diamet
Achillea millefolium	3	No	FACU	at breast height (DBH), regardless of height.
). Cichorium intybus	2	No	FACU	Sapling/shrub – Woody plants less than 3 in. DBH
l				and greater than or equal to 3.28 ft (1 m) tall.
2.				Harle All harbarran (annual Nabata annualla
	117	=Total Cover		<b>Herb</b> – All herbaceous (non-woody) plants, regardles 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		

**SOIL** Sampling Point: UPL CC-2

	ription: (Describe t	o the dep				or or co	nfirm the absence of indic	ators.)	
Depth	Matrix			k Featur		2			
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks	
0-3	10YR 2/1	100					Loamy/Clayey	with gravel	
3-6	10YR 4/2	80	10YR 4/4	15	С	<u>M</u>	Loamy/Clayey	Distinct redox concentrations	
			10YR 3/1	5	<u>C</u>	M		Faint redox concentrations	
6-16	10YR 5/2	65	10YR 5/8	35	<u>C</u>	<u>M</u>	Loamy/Clayey P	rominent redox concentrations	
<sup>1</sup> Type: C=Co	ncentration, D=Deple	etion, RM	=Reduced Matrix, MS	S=Mask	ed Sand	Grains.	<sup>2</sup> Location: PL=Po	re Lining, M=Matrix.	
Hydric Soil I	ndicators:						Indicators for Pro	oblematic Hydric Soils³:	
Histosol	(A1)		Polyvalue Belov	w Surfac	e (S8) ( <b>L</b>	.RR R,	2 cm Muck (A	10) (LRR K, L, MLRA 149B)	
	ipedon (A2)		MLRA 149B)					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) Below Dark Surface	(Λ11)	Loamy Mucky N Loamy Gleyed			( <b>K</b> , <b>L</b> )		rface (S9) (LRR K, L) ese Masses (F12) (LRR K, L, R)	
	rk Surface (A12)	(Д11)	X Depleted Matrix		2)			odplain Soils (F19) (MLRA 149B)	
	ucky Mineral (S1)		Redox Dark Su		6)			(TA6) ( <b>MLRA 144A, 145, 149B</b> )	
	leyed Matrix (S4)		Depleted Dark				Red Parent M		
Sandy R	edox (S5)		Redox Depress	sions (F8	3)		Very Shallow Dark Surface (F22)		
Stripped	Matrix (S6)		Marl (F10) (LR	R K, L)			Other (Explain in Remarks)		
Dark Sur	face (S7)								
2									
	hydrophytic vegetati	on and we	etland hydrology mus	st be pre	sent, unl	ess distu	rbed or problematic.		
	<b>.ayer (if observed):</b> Non								
Type:		ie					Harles Oall Days and	V V. N.	
Depth (in	icnes):						Hydric Soil Present?	Yes X No	
Remarks:									



**Upland CC-2 View facing west** 



**Upland CC-2 Soils** 

# Phase 1

# SITE PHOTOGRAPHS

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

Project/Site: CHPE		City/County: Putnam / Washington	Sampling Date: 10/12/21			
Applicant/Owner: TDI		State: NY	Sampling Point: WET CD-5			
Investigator(s): C. Scrivner, J. Greaves		Section, Township, Range:				
Landform (hillside, terrace, etc.): Depression	n Local re	elief (concave, convex, none): Concave	Slope %:4			
Subregion (LRR or MLRA): LRR R	Lat: 43-43-51.76N	Long: 73-22-49.06W	Datum: WGS 84			
Soil Map Unit Name: VeC - Vergennes silty cl						
Are climatic / hydrologic conditions on the site t	ypical for this time of year?	Yes X No (If no,	, explain in Remarks.)			
Are Vegetation, Soil, or Hydrole	ogysignificantly disturbe	ed? Are "Normal Circumstances" pre	sent? Yes X No			
Are Vegetation, Soil, or Hydrol			in Remarks.)			
SUMMARY OF FINDINGS – Attach s			nportant 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 fla	ag CD-5			
HYDROLOGY						
Wetland Hydrology Indicators:		Secondary Indicators	(minimum of two required)			
Primary Indicators (minimum of one is required		Surface Soil Crac	` '			
Surface Water (A1)	Water-Stained Leaves (BS					
High Water Table (A2)	Aquatic Fauna (B13)	Moss Trim Lines (				
Saturation (A3)	Marl Deposits (B15)	Dry-Season Wate				
Water Marks (B1) Sediment Deposits (B2)	Hydrogen Sulfide Odor (C Oxidized Rhizospheres on					
Drift Deposits (B3)	Presence of Reduced Iron	- · · · · · · · · · · · · · · · · ·				
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)	X Other (Explain in Remarks	ks)Microtopographic Relief (D4)				
Sparsely Vegetated Concave Surface (B8		FAC-Neutral Test				
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 X No			
(includes capillary fringe)	Transcript photos provi	'				
Describe Recorded Data (stream gauge, mon	itoring well, aerial priolos, previ	ous inspections), if available:				
Remarks:						
Directly adjacent to Stream CS2.						

1. Rhamnus cathartica	% Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
2.	4	No	FAC	Number of Dominant Species That Are OBL, FACW, or FAC: 4 (A)
3.				Total Number of Dominant
4				Species Across All Strata: 6 (B)
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 66.7% (A/B)
7.				Prevalence Index worksheet:
	4	=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15' )				OBL species 11 x 1 = 11
1. Pinus strobus	10	Yes	FACU	FACW species 33 x 2 = 66
2. Rhamnus cathartica	8	Yes	FAC	FAC species 58 x 3 = 174
3. Cornus amomum	8	Yes	FACW	FACU species 31 x 4 = 124
4. Cornus racemosa	5	No	FAC	UPL species 5 x 5 = 25
5. Lonicera morrowii	3	No	FACU	Column Totals: 138 (A) 400 (B)
6.			17.00	Prevalence Index = B/A = 2.90
7.				Hydrophytic Vegetation Indicators:
··	34	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5' )		= Total Cover		X 2 - Dominance Test is >50%
	25	Voo	FACW	X 3 - Prevalence Index is ≤3.0 <sup>1</sup>
1. Solidago gigantea	25	Yes		4 - Morphological Adaptations <sup>1</sup> (Provide supporting
2. Solidago rugosa	20	Yes	FAC	data in Remarks or on a separate sheet)
3. Symphyotrichum ericoides	10 8	Yes	FACU	
4. Ranunculus acris		No No	FAC	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5. Rumex verticillatus	6	No No	OBL	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be
6. Rubia peregrina	5	No No	UPL	present, unless disturbed or problematic.
7. Equisetum arvense	5	No No	FAC	Definitions of Vegetation Strata:
8. Lythrum salicaria	5	No No	OBL	Tree – Woody plants 3 in. (7.6 cm) or more in diameter
9. Geum aleppicum	5	No No	FAC	at breast height (DBH), regardless of height.
10. Pinus strobus	5	No No	FACU	Sapling/shrub – Woody plants less than 3 in. DBH
11. Prunella vulgaris	3	No No	FAC	and greater than or equal to 3.28 ft (1 m) tall.
12. Cirsium arvense	3	No No	FACU	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
1				height.
2				Hydrophytic
3				Vegetation
4				Present?
		=Total Cover		

Sampling Point:

WET CD-5

SOIL Sampling Point: WET CD-5

Depth	ription: (Describe to Matrix	o the de		ocument th tedox Featur		tor or co	nfirm the absence of	indicators.)
(inches)	Color (moist)	%	Color (moist	) %	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-7	10YR 4/1	98	10YR 5/4	2	С	M	Loamy/Clayey	Distinct redox concentrations
7-16	10YR 4/1	60	10YR 5/6	35	С	М	Loamy/Clayey	Prominent redox concentrations
			10YR 5/6	5	С	PL		Prominent redox concentrations
								_
	ncentration, D=Deple	etion, RN	/I=Reduced Matr	ix, MS=Mask	ked Sand	d Grains.		L=Pore Lining, M=Matrix.
Hydric Soil I			Polyvalue	Below Surfa	ca (S8) (	I DD D		or Problematic Hydric Soils <sup>3</sup> : lck (A10) (LRR K, L, MLRA 149B)
	ipedon (A2)		MLRA 1		ce (30) (	LKK K,		rairie Redox (A16) (LRR K, L, R)
Black His				Surface (S9)	(LRR R	, MLRA 1		icky Peat or Peat (S3) (LRR K, L, R)
	n Sulfide (A4)			ma Sands (S				e Below Surface (S8) (LRR K, L)
Stratified	Layers (A5)		Loamy Mu	cky Mineral (	(F1) ( <b>LR</b> I	R K, L)	Thin Dar	k Surface (S9) ( <b>LRR K, L</b> )
Depleted	Below Dark Surface	(A11)	Loamy Gle	yed Matrix (	F2)		Iron-Mar	nganese Masses (F12) (LRR K, L, R)
Thick Da	rk Surface (A12)		X Depleted N	Natrix (F3)			Piedmor	nt Floodplain Soils (F19) (MLRA 149B)
Sandy M	ucky Mineral (S1)		Redox Dar	k Surface (F	6)		Mesic S	podic (TA6) ( <b>MLRA 144A, 145, 149B</b> )
Sandy G	leyed Matrix (S4)		Depleted [	Oark Surface	(F7)		Red Par	ent Material (F21)
Sandy Re	edox (S5)			oressions (F	8)		Very Sha	allow Dark Surface (F22)
Stripped	Matrix (S6)		Marl (F10)	(LRR K, L)			Other (E	xplain in Remarks)
Dark Sur	face (S7)							
<sup>3</sup> Indicators of	hydrophytic vegetation	on and w	etland hydrology	must be pre	esent, un	ıless distu	urbed or problematic.	
	.ayer (if observed):			•				
Type:	Roc							
Depth (in	iches):	16					Hydric Soil Preser	nt? Yes X No
Remarks:								



Wetland CD-5 View facing northwest



Wetland CD-5 Soils

Phase 1

## **SITE PHOTOGRAPHS**

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

Project/Site: CHPE	City/County: Putnam / Washington Sampling Date: 10/12/21
Applicant/Owner: TDI	State: NY Sampling Point: UPL CD-5
Investigator(s): C. Scrivner, J. Greaves	Section, Township, Range:
Landform (hillside, terrace, etc.): Hillslope Local	relief (concave, convex, none): Convex Slope %: 3
Subregion (LRR or MLRA): LRR R Lat: 43-43-51.31N	Long: 73-22-48.55W Datum: WGS 84
Soil Map Unit Name: VeC - Vergennes silty clay loam, 6 to 12 percent slop	
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.
Outmant of Thibition - Attach site map showing san	Thing point locations, transcots, important reatures, 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 Remarks: (Explain alternative procedures here or in a separate report.)	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 (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 (Figures in Report	
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 Recorded Data (stream gauge, monitoring well, aerial priotos, pre	vious inspections), il avaliable.
Remarks:	
Tromaine.	

EGETATION – Use scientific names of p	iaiitoi			Sampling Point: UPL CD-5		
ree Stratum (Plot size:)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:		
. Rhamnus cathartica	40	Yes	FAC	Number of Dominant Species		
Fraxinus americana	15	Yes	FACU	That Are OBL, FACW, or FAC: 2 (A		
. Pinus strobus	6	No	FACU	Total Number of Dominant		
. Juniperus virginiana	5	No	FACU	Species Across All Strata: 7 (E		
. Prunus serotina	3	No	FACU	Percent of Dominant Species		
. <u></u>				That Are OBL, FACW, or FAC: 28.6% (A		
·				Prevalence Index worksheet:		
	69	=Total Cover		Total % Cover of: Multiply by:		
apling/Shrub Stratum (Plot size: 15'	)			OBL species 0 x 1 = 0		
. Lonicera morrowii	20	Yes	FACU	FACW species 0 x 2 = 0		
. Rhamnus cathartica	15	Yes	FAC	FAC species 70 x 3 = 210		
. Cornus racemosa	10	No	FAC	FACU species 104 x 4 = 416		
. Fraxinus americana	5	No	FACU	UPL species 31 x 5 = 155		
. Pinus strobus	3	No	FACU	Column Totals: 205 (A) 781		
i				Prevalence Index = B/A = 3.81		
		· <u></u>		Hydrophytic Vegetation Indicators:		
	53	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation		
lerb Stratum (Plot size: 5' )		•		2 - Dominance Test is >50%		
. Symphyotrichum ericoides	20	Yes	FACU	3 - Prevalence Index is ≤3.0 <sup>1</sup>		
. Rubia peregrina	20	Yes	UPL	4 - Morphological Adaptations <sup>1</sup> (Provide suppo		
. Pinus strobus	8	Yes	FACU	data in Remarks or on a separate sheet)		
. Symphyotrichum lowrieanum	6	No	UPL	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)		
. Daucus carota	5	No	UPL	Indicators of hydric soil and wetland hydrology mu		
. Cornus racemosa	5	No	FAC	present, unless disturbed or problematic.		
. Lonicera morrowii	5	No	FACU	Definitions of Vegetation Strata:		
. Berberis vulgaris	5	No	FACU	Tree Woody plants 2 in (7.6 cm) or more in diam		
Juniperus virginiana	3	No	FACU	<ul> <li>Tree – Woody plants 3 in. (7.6 cm) or more in diam at breast height (DBH), regardless of height.</li> </ul>		
Parthenocissus quinquefolia	3	No	FACU			
1.				<ul> <li>Sapling/shrub – Woody plants less than 3 in. I and greater than or equal to 3.28 ft (1 m) tall.</li> </ul>		
2.				Hart All back account (non-viscolis) plants account		
	80	=Total Cover	( <u> </u>	<b>Herb</b> – All herbaceous (non-woody) plants, regard 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 height.		
				Hydrophytic		
				Vegetation Present? Yes No X		

SOIL Sampling Point: UPL CD-5

Profile Desc	cription: (Describe t	o the dep	th needed to docu	ment th	e indicat	or or co	nfirm the absence of indicat	tors.)
Depth	Matrix		Redo	x Feature	es			
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-4	10YR 3/2	100					Loamy/Clayey	
4-16	10YR 4/2	100					Loamy/Clayey	
								_
	·							
-								
		· <u></u>	_					
-								
1 <sub>Tumpa</sub> , C. C.	anagetration D. Donl	eties DM	Dodused Metrix M	C Mook		Craina	<sup>2</sup> l continu Dl. Doro	Lining M Matrix
Hydric Soil	oncentration, D=Deple	etion, Rivi	Reduced Matrix, M	S=IVIASK	ea Sana (	Jrains.	<sup>2</sup> Location: PL=Pore	blematic Hydric Soils <sup>3</sup> :
Histosol			Polyvalue Belo	w Surfac	n (88) (I	DD D		0) (LRR K, L, MLRA 149B)
	pipedon (A2)		MLRA 149B		.e (30) ( <b>L</b>	ixix ix,		edox (A16) ( <b>LRR K, L, R</b> )
	istic (A3)		Thin Dark Surfa	,	(I RR R	MIRA 1		at or Peat (S3) (LRR K, L, R)
	en Sulfide (A4)		High Chroma S					w Surface (S8) (LRR K, L)
	d Layers (A5)		Loamy Mucky I				<del></del> ·	ace (S9) (LRR K, L)
	d Below Dark Surface	(A11)	Loamy Gleyed			, -,		e Masses (F12) (LRR K, L, R)
	ark Surface (A12)	,	Depleted Matri		,			Iplain Soils (F19) (MLRA 149B)
	Mucky Mineral (S1)		Redox Dark Su	, ,	6)			ΓA6) ( <b>MLRA 144A, 145, 149B</b> )
	Gleyed Matrix (S4)		Depleted Dark				Red Parent Mat	
	Redox (S5)		Redox Depress					ark Surface (F22)
	Matrix (S6)		Marl (F10) ( <b>LR</b>	RK,L)	,		Other (Explain i	
Dark Su	rface (S7)						<u>—</u>	
<sup>3</sup> Indicators o	f hydrophytic vegetati	on and we	tland hydrology mus	st be pre	sent, unle	ess distu	rbed or problematic.	
Restrictive	Layer (if observed):							
Type:	Non	ie						
Depth (i	nches):						Hydric Soil Present?	Yes No X
Remarks:								
	m is revised from No	thcentral	and Northeast Region	onal Sup	plement \	Version 2	2.0 to include the NRCS Field	Indicators of Hydric Soils,
	2015 Errata. (http://w							·



**Upland CD-5 View facing southwest** 



**Upland CD-5 Soils** 

Phase 1

## **SITE PHOTOGRAPHS**

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

Project/Site: CHPE	City/County: Putnam / Washington Sampling Date: 10/12/21
Applicant/Owner: TDI	State: NY Sampling Point: WET CE-8
Investigator(s): C. Scrivner, J. Greaves	Section, Township, Range:
	relief (concave, convex, none): Concave Slope %: 2
Subregion (LRR or MLRA): LRR R Lat: 43-43-52.04N	Long: 73-22-54.64W Datum: WGS 84
Soil Map Unit Name: HWE - Hudson and vergennes soil, steep and very ste	
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	opling 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 CE-8
Remarks: (Explain alternative procedures here or in a separate report.) Palustrine Emergent Marsh. Edinger classification: Shallow Emergent 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) 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) X Other (Explain in Remark	
Sparsely Vegetated Concave Surface (B8)	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:	
Adjacent to stream CS3.	

EGETATION – Use scientific names of place						
ree Stratum (Plot size:)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:		
Rhamnus cathartica	5	Yes	FAC	Number of Dominant Species		
Juniperus virginiana	1	No	FACU	That Are OBL, FACW, or FAC: 4 (A)		
				Total Number of Dominant		
. <u>-                                     </u>				Species Across All Strata: 7 (B)		
				Percent of Dominant Species		
				That Are OBL, FACW, or FAC: 57.1% (A/B		
				Prevalence Index worksheet:		
	6	=Total Cover		Total % Cover of: Multiply by:		
apling/Shrub Stratum (Plot size:15')				OBL species 53 x 1 = 53		
Lonicera morrowii	10	Yes	FACU	FACW species 21 x 2 = 42		
Rhamnus cathartica	5	Yes	FAC	FAC species 16 x 3 = 48		
Pinus strobus	2	No	FACU	FACU species 33 x 4 = 132		
				UPL species 0 x 5 = 0		
				Column Totals: 123 (A) 275 (B		
·				Prevalence Index = B/A = 2.24		
·	-			Hydrophytic Vegetation Indicators:		
	17	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation		
lerb Stratum (Plot size:5')				X 2 - Dominance Test is >50%		
. Leersia oryzoides	30	Yes	OBL	X 3 - Prevalence Index is ≤3.0 <sup>1</sup>		
. Inula helenium	10	Yes	FACU	4 - Morphological Adaptations <sup>1</sup> (Provide supporting		
. Trifolium repens	10	Yes	FACU	data in Remarks or on a separate sheet)		
. Cornus sericea	8	Yes	FACW	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)		
. Eupatorium perfoliatum	6	No	FACW	<sup>1</sup> Indicators of hydric soil and wetland hydrology must		
. Symphyotrichum puniceum	6	No	OBL	present, unless disturbed or problematic.		
. Typha latifolia	5	No	OBL	Definitions of Vegetation Strata:		
. Eutrochium maculatum	5	No	OBL	Tree Woody plants 2 in (7.6 cm) or more in diamet		
. Lythrum salicaria	5	No	OBL	<ul> <li>Tree – Woody plants 3 in. (7.6 cm) or more in diame at breast height (DBH), regardless of height.</li> </ul>		
0. Solidago gigantea	5	No	FACW	Sanling/obrub Woody plants loss than 2 in DBH		
1. Onoclea sensibilis	2	No	FACW	Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.		
2. Juncus effusus	2	No	OBL			
	100	=Total Cover		<b>Herb</b> – All herbaceous (non-woody) plants, regardles of size, and woody plants less than 3.28 ft tall.		
Voody Vine Stratum (Plot size: 30' )		_		Manakasina Allanda kata matanika 200 (ki		
				<b>Woody vines</b> – All woody vines greater than 3.28 ft in height.		
				Hydrophytic		
				Vegetation Present? Yes X No		
		=Total Cover				
		- Total Cover				

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

Tree Stratum	Absolute % Cover	Dominant Species?	Indicator Status	Definitions of Vegetation Strata:
	/0 CUVCI	ομεσισο:	Status	Tree – Woody plants 3 in. (7.6 cm) or more in diameter
				at breast height (DBH), regardless of height.
9				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
13.				of size, and woody plants less than 3.28 ft tall.
14.				Woody vines – All woody vines greater than 3.28 ft in
		=Total Cover		height.
Sapling/Shrub Stratum		•		
8.				
9.				
10				
11				
12.				
13				
14				
	17	=Total Cover		
Herb Stratum				
13. Geum aleppicum	2	No	FAC	
14. Athyrium angustum	2	No	FAC	
15. Prunella vulgaris	2	No	FAC	
16				
17				
18		- ——		
19				
20				
21.				
22.				
23.				
24	100			
W. L. Mar Orac va	100	=Total Cover		
Woody Vine Stratum				
5.				
6				
8.				
0.		=Total Cover		
Remarks: (Include photo numbers here or on a separ				
Remains. (include prioto numbers note of on a sopar	ale Silect.,			

Sampling Point:

WET CE-8

SOIL Sampling Point: WET CE-8

Profile Desc	cription: (Describe to	o the de				or or co	nfirm the absence of i	ndicators.)
Depth	Matrix			x Feature		2		
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-3	10YR 3/2	100					Muck	
3-12	10YR 4/1	80	10YR 3/3	20	С	M	Loamy/Clayey	Distinct redox concentrations
12-16	5GY 5/1	60	10YR 3/2	20	С	M	Loamy/Clayey	Prominent redox concentrations
			10GY 2.5/1	20	С	M		Prominent redox concentrations
	oncentration, D=Deple	etion, RM	=Reduced Matrix, M	S=Mask	ed Sand	Grains.		_=Pore Lining, M=Matrix.
Hydric Soil					(0-) (1			or Problematic Hydric Soils <sup>3</sup> :
Histosol			? Polyvalue Belov		ce (S8) ( <b>L</b>	.RR R,		ck (A10) (LRR K, L, MLRA 149B)
Black Hi	oipedon (A2)		MLRA 149B) Thin Dark Surfa	<b>'</b>	(I RR R	MIRA 1		airie 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 N					k Surface (S9) (LRR K, L)
	d Below Dark Surface	(A11)	X Loamy Gleyed					ganese Masses (F12) (LRR K, L, R)
Thick Da	ark Surface (A12)		X Depleted Matrix	۲ (F3)			Piedmon	t Floodplain Soils (F19) ( <b>MLRA 149B</b> )
	lucky Mineral (S1)		Redox Dark Su					oodic (TA6) ( <b>MLRA 144A, 145, 149B</b> )
	leyed Matrix (S4)		Depleted Dark					ent Material (F21)
	edox (S5)		? Redox Depress		3)			allow Dark Surface (F22) xplain in Remarks)
	Matrix (S6) rface (S7)		Marl (F10) ( <b>LR</b> l	Χ <b>N</b> , L)			Other (E)	(plain in Kemarks)
Daik Sui	nace (Sr)							
<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 Presen	t? Yes X No
Remarks:								



Wetland CE-8 View facing west



**Wetland CE-8 Soils** 

Phase 1

# SITE PHOTOGRAPHS

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

Project/Site: CHPE	City/County: Putnam / Washington Sampling Date: 10/12/21				
Applicant/Owner: TDI	State: NY Sampling Point: UPL CE-8				
Investigator(s): C. Scrivner, J. Greaves	Section, Township, Range:				
	al relief (concave, convex, none): Convex Slope %: 6				
Subregion (LRR or MLRA): LRR R Lat: 43-43-51.99N	Long: 73-22-55.01W Datum: WGS 84				
Soil Map Unit Name: HWE - Hudson and vergennes, steep and very stee					
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	urbed? Are "Normal Circumstances" present? Yes X No				
Are Vegetation, Soil, or Hydrologynaturally problem					
<del></del>	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:				
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	<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 Odol  Oxidized Bhissels are	· · · · · · · · · · · · · · · · · · ·				
Sediment Deposits (B2)  Oxidized Rhizospheres  Progress of Reduced					
Drift Deposits (B3) Presence of Reduced 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	· · · · · · · · · · · · · · · · · · ·				
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)				
Field Observations:	<del>-</del>				
Surface Water Present? Yes No X Depth (inches	s):				
Water Table Present? Yes No X Depth (inches	s):				
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. Juniperus virginiana	25	Yes	FACU	
Acer saccharum	15	Yes	FACU	Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)
3. Pinus strobus	10	No	FACU	
4. Acer rubrum	10	No	FAC	Total Number of Dominant Species Across All Strata: 6 (B)
5. Fraxinus americana	5	No	FACU	Opecies Across Air Otrata.
6. Rhamnus cathartica	4	No	FAC	Percent of Dominant Species That Are OBL, FACW, or FAC: 33.3% (A/B)
7.	4		FAC	Prevalence Index worksheet:
··	69	=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15' )				OBL species 0 x 1 = 0
1. Lonicera morrowii	15	Yes	FACU	FACW species 0 x 2 = 0
2. Rhamnus cathartica	15	Yes	FAC	FAC species 34 x 3 = 102
3. Quercus alba	5	No	FACU	FACU species 90 x 4 = 360
4. Quercus rubra	5	No	FACU	UPL species 0 x 5 = 0
5. Fraxinus americana	5	No	FACU	Column Totals: 124 (A) 462 (B)
6.				Prevalence Index = B/A = 3.73
7.				Hydrophytic Vegetation Indicators:
	45	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5' )				2 - Dominance Test is >50%
1. Quercus alba	5	Yes	FACU	3 - Prevalence Index is ≤3.0 <sup>1</sup>
2. Rhamnus cathartica	5	Yes	FAC	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:
9.				<b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
10.				Continuo (abrush - Woody planta loss than 2 in DDII
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
	10	=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.				
3.				Hydrophytic Vegetation
4.				Present? Yes No X
		=Total Cover		
Remarks: (Include photo numbers here or on a separa	ate sheet.)			
· ·	,			

Sampling Point:

UPL CE-8

SOIL Sampling Point: UPL CE-8

Profile Desc Depth	cription: (Describe to Matrix	o the de		ment the x Featur		or or co	nfirm the absence of ind	icators.)	
(inches)	Color (moist)	%	Color (moist)	% 1 Galui	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks	
0-2	10YR 4/2	100	, ,		71		Loamy/Clayey		
2-5	10YR 5/3	100							
2-5	1018 5/3	100					Loamy/Clayey		
			-						
<del> </del>									
	oncentration, D=Deple	etion, RN	1=Reduced Matrix, M	1S=Mask	ced Sand	Grains.		Pore Lining, M=Matrix.	
Hydric Soil I			Daharaha Dala	0	(CO) (I	DD D		Problematic Hydric S	
Histosol	oipedon (A2)		Polyvalue Belo		ce (S6) (I	-KK K,		(A10) ( <b>LRR K, L, MLR</b> ie Redox (A16) ( <b>LRR I</b>	
Black Hi			Thin Dark Surf	•	(I RR R	MI RA 1		Peat or Peat (S3) ( <b>LF</b>	
	n Sulfide (A4)		High Chroma S					selow Surface (S8) ( <b>LF</b>	
	d Layers (A5)		Loamy Mucky					Surface (S9) (LRR K, L	
Depleted	d Below Dark Surface	(A11)	Loamy Gleyed	Matrix (I	F2)		Iron-Manga	nese Masses (F12) (L	.RR K, L, R)
Thick Da	ark Surface (A12)		Depleted Matri	x (F3)			Piedmont F	loodplain Soils (F19) (	MLRA 149B)
	lucky Mineral (S1)		Redox Dark Su				Mesic Spoo	lic (TA6) ( <b>MLRA 144A</b>	, 145, 149B)
	leyed Matrix (S4)		Depleted Dark					Material (F21)	
	edox (S5)		Redox Depres		3)			w Dark Surface (F22)	
	Matrix (S6)		Marl (F10) ( <b>LR</b>	K K, L)			Otner (Expi	ain in Remarks)	
Dark Su	rface (S7)								
<sup>3</sup> Indicators of	f hydrophytic vegetation	on and v	vetland hydrology mu	st be pre	esent. un	less distu	irbed or problematic.		
	Layer (if observed):				, , , , , , , , , , , , , , , , , , , ,				
Туре:	Rocl	<							
Depth (ir	nches):	5					Hydric Soil Present?	Yes	No X
Remarks:									



**Upland CE-8 View facing southeast** 



**Upland CE-8 Soils** 

Phase 1

## **SITE PHOTOGRAPHS**

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

pepticant/Owner: TDI
ubregion (LRR or MLRA): LRR R Lat: 43-43-52.09N Long: 73-22-55.75W Datum: WGS 84 ubregion (LRR or MLRA): LRR R Lat: 43-43-52.09N Long: 73-22-55.75W Datum: WGS 84 oil Map Unit Name: HWE - Hudson and vergennes, steep and very steep NWI classification: PFO1 re climatic / hydrologic conditions on the site typical for this time of year? Yes X No (If no, explain in Remarks.) re Vegetation Soil or or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes X No re Vegetation Soil or or Hydrology anaturally problematic? (If needed, explain any answers in Remarks.) re Vegetation Soil or or Hydrology anaturally problematic? (If needed, explain any answers in Remarks.) re Vegetation Present? Yes X No within a Wetland? Yes X No within a Wetland Pydrology Present? Yes X No within a Wetland? Yes X You within a Wetland? Yes X You within a Wetl
ubregion (LRR or MLRA): LRR R Lat: 43-43-52.09N Long: 73-22-55.75W Datum: WGS 84 oil Map Unit Name: HWE - Hudson and vergennes, steep and very steep re climatic / hydrologic conditions on the site typical for this time of year? Yes X No (If no, explain in Remarks.)  re Vegetation Soil or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes X No attended, explain any answers in Remarks.)  RUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Yes X No Is the Sampled Area within a Wetland? Yes X No Wetland Hydrology Present? Yes X No If yes, optional Wetland? Yes X No If yes, optional Wetland? Yes X No
ubregion (LRR or MLRA): LRR R Lat: 43-43-52.09N Long: 73-22-55.75W Datum: WGS 84 oil Map Unit Name: HWE - Hudson and vergennes, steep and very steep re climatic / hydrologic conditions on the site typical for this time of year? Yes X No (If no, explain in Remarks.)  re Vegetation Soil or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes X No attended, explain any answers in Remarks.)  RUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Yes X No Is the Sampled Area within a Wetland? Yes X No Wetland Hydrology Present? Yes X No If yes, optional Wetland? Yes X No If yes, optional Wetland? Yes X No
re climatic / hydrologic conditions on the site typical for this time of year?  re Vegetation, Soil, or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes _X No (If no, explain in Remarks.)  re Vegetation, Soil, or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)  BUMMARY OF FINDINGS — Attach site map showing sampling point locations, transects, important features, etc.  Hydrophytic Vegetation Present? Yes _X No
re climatic / hydrologic conditions on the site typical for this time of year?  re Vegetation, Soil, or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes _X No (If no, explain in Remarks.)  re Vegetation, Soil, or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)  BUMMARY OF FINDINGS — Attach site map showing sampling point locations, transects, important features, etc.  Hydrophytic Vegetation Present? Yes _X No
re Vegetation, Soil, or Hydrologysignificantly disturbed?
re Vegetation, Soil, or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)  SUMMARY OF FINDINGS — Attach site map showing sampling point locations, transects, important features, etc.  Hydrophytic Vegetation Present?
Hydrophytic Vegetation Present? Hydrophytic Vegetation Present? Hydrophytic Vegetation Present? Hydrophytic Vegetation Present? Hydric Soil Present? Hydrophytic Vegetation Vegetation Present? Hydrophytic Vegetation Vegetat
Hydrophytic Vegetation Present?  Yes X No Wetland Hydrology Present?  Yes X No If yes, optional Wetland?  Wetland Hydrology Present?  Wetland Hydrology Indicators:  Palustrine Forested Wetland. Edinger classification: Red-maple Hardwood Swamp.  Wetland Hydrology Indicators:  Primary Indicators (minimum of one is required; check all that apply)  Surface Soil Cracks (B6)  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Marl Deposits (B15)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Aigal Mat or Crust (B4)  Aigal Mat or Crust (B4)  Recent Iron Reduction in Tilled Soils (C6)  Iron Deposits (B3)  Presence of Reduced Iron (C4)  Sparsely Vegetated Concave Surface (B8)  FAC-Neutral Test (D5)  Field Observations:
Hydric Soil Present?  Wetland Hydrology Present?  Yes X No If yes, optional Wetland?  Wetland Hydrology Present?  Wetland Hydrology Present?  Wetland Hydrology Present?  Wetland Hydrology Indicators:  Palustrine Forested Wetland. Edinger classification: Red-maple Hardwood Swamp.  Wetland Hydrology Indicators:  Primary Indicators (minimum of one is required; check all that apply)  Surface Soil Cracks (B6)  Surface Water (A1)  Water-Stained Leaves (B9)  Surface Water (A1)  Water Table (A2)  Saturation (A3)  Saturation (A3)  Marl Deposits (B15)  Saturation (A3)  Marl Deposits (B15)  Dry-Season Water Table (C2)  Water Marks (B1)  Hydrogen Sulfide Odor (C1)  Sediment Deposits (B2)  Now Strim Lines (B16)  Saturation Visible on Aerial Imagery (C9)  Drift Deposits (B3)  Presence of Reduced Iron (C4)  Algal Mat or Crust (B4)  Involved Water (B7)  Involved Water (B7)  Other (Explain in Remarks)  Microtopographic Relief (D4)  FAC-Neutral Test (D5)  Field Observations:
Wetland Hydrology Present?  Yes X No If yes, optional Wetland Site ID: Near flag CF-3  Remarks: (Explain alternative procedures here or in a separate report.) Palustrine Forested Wetland. Edinger classification: Red-maple Hardwood Swamp.  IYDROLOGY  Wetland Hydrology Indicators:  Primary Indicators (minimum of one is required; check all that apply)  Surface Soil Cracks (B6)  Surface Water (A1)  High Water Table (A2)  Aquatic Fauna (B13)  Saturation (A3)  Marl Deposits (B15)  Sediment Deposits (B2)  Yeten Algal Mat or Crust (B4)  Algal Mat or Crust (B4)  Recent Iron Reduction in Tilled Soils (C6)  In Muck Surface (C7)  Sparsely Vegetated Concave Surface (B8)  Field Observations:  If yes, optional Wetland Site ID: Near flag CF-3  Near flag CF
Remarks: (Explain alternative procedures here or in a separate report.) Palustrine Forested Wetland. Edinger classification: Red-maple Hardwood Swamp.  Wetland Hydrology Indicators:  Primary Indicators (minimum of one is required; check all that apply)  Surface Soil Cracks (B6)  Surface Water (A1)  High Water Table (A2)  Aquatic Fauna (B13)  Saturation (A3)  Marl Deposits (B15)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B2)  Drift Deposits (B3)  Presence of Reduced Iron (C4)  Algal Mat or Crust (B4)  Recent Iron Reduction in Tilled Soils (C6)  Iron Deposits (B5)  Thin Muck Surface (C7)  Shallow Aquitard (D3)  Inundation Visible on Aerial Imagery (B7)  Other (Explain in Remarks)  Secondary Indicators (minimum of two required)  Surface Soil Cracks (B6)  X Drainage Patterns (B10)  Moss Trim Lines (B16)  Dry-Season Water Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C9)  Stunded or Stressed Plants (D1)  Algal Mat or Crust (B4)  Recent Iron Reduction in Tilled Soils (C6)  Iron Deposits (B5)  Thin Muck Surface (C7)  Shallow Aquitard (D3)  Inundation Visible on Aerial Imagery (B7)  Other (Explain in Remarks)  Sparsely Vegetated Concave Surface (B8)  FAC-Neutral Test (D5)
Palustrine Forested Wetland. Edinger classification: Red-maple Hardwood Swamp.    Palustrine Forested Wetland. Edinger   Palustrine Food     Surface Soil Cracks (B6)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one is required; check all that apply)  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (B7)  Sparsely Vegetated Concave Surface (B8)  Surface Soil Cracks (B6)  X Drainage Patterns (B10)  Moss Trim Lines (B16)  Dry-Season Water Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C9)  Stunted or Stressed Plants (D1)  X Geomorphic Position (D2)  Shallow Aquitard (D3)  Microtopographic Relief (D4)  FAC-Neutral Test (D5)  Field Observations:
Primary Indicators (minimum of one is required; check all that apply)  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (B7)  Sparsely Vegetated Concave Surface (B8)  Surface Soil Cracks (B6)  X Drainage Patterns (B10)  Moss Trim Lines (B16)  Dry-Season Water Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C9)  Stunted or Stressed Plants (D1)  X Geomorphic Position (D2)  Shallow Aquitard (D3)  Microtopographic Relief (D4)  FAC-Neutral Test (D5)  Field Observations:
Surface Water (A1)  High Water Table (A2)  Aquatic Fauna (B13)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (B7)  Sparsely Vegetated Concave Surface (B8)  Water-Stained Leaves (B9)  Aquatic Fauna (B13)  Aquatic Fauna (B13)  Moss Trim Lines (B16)  Dry-Season Water Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C9)  Saturation Visible on Aerial Imagery (C9)  Stunted or Stressed Plants (D1)  X Geomorphic Position (D2)  Shallow Aquitard (D3)  Microtopographic Relief (D4)  FAC-Neutral Test (D5)
High Water Table (A2)  Saturation (A3)  Marl Deposits (B15)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (B7)  Sparsely Vegetated Concave Surface (B8)  Advatic Fauna (B13)  Moss Trim Lines (B16)  Dry-Season Water Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C9)  Saturation Visible on Aerial Imagery (C9)  Stunted or Stressed Plants (D1)  X Geomorphic Position (D2)  Shallow Aquitard (D3)  Microtopographic Relief (D4)  FAC-Neutral Test (D5)
Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (B7)  Sparsely Vegetated Concave Surface (B8)  Marl Deposits (B15)  Hydrogen Sulfide Odor (C1)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C9)  Stunted or Stressed Plants (D1)  X Geomorphic Position (D2)  Shallow Aquitard (D3)  Microtopographic Relief (D4)  FAC-Neutral Test (D5)  Field Observations:
Water Marks (B1)
Sediment Deposits (B2) X Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9)  Drift Deposits (B3) Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1)  Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) X Geomorphic Position (D2)  Iron Deposits (B5) Thin Muck Surface (C7) Shallow Aquitard (D3)  Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Microtopographic Relief (D4)  Sparsely Vegetated Concave Surface (B8)  FAC-Neutral Test (D5)
Drift Deposits (B3) Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1) Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1) X Geomorphic Position (D2) Shallow Aquitard (D3) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Sparsely Vegetated Concave Surface (B8) FAC-Neutral Test (D5)  Field Observations:
Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (B7)  Sparsely Vegetated Concave Surface (B8)  Recent Iron Reduction in Tilled Soils (C6)  Thin Muck Surface (C7)  Other (Explain in Remarks)  Sparsely Vegetated Concave Surface (B8)  FAC-Neutral Test (D5)  Field Observations:
Iron Deposits (B5)  Inundation Visible on Aerial Imagery (B7)  Sparsely Vegetated Concave Surface (B8)  Thin Muck Surface (C7)  Other (Explain in Remarks)  FAC-Neutral Test (D5)  Field Observations:
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Microtopographic Relief (D4) Sparsely Vegetated Concave Surface (B8) FAC-Neutral Test (D5)  Field Observations:
Sparsely Vegetated Concave Surface (B8)  FAC-Neutral Test (D5)  Field Observations:
Field Observations:
2 of the Water Brook of Van Ne V Brook (baker).
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 X No
(includes capillary fringe)
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:
Remarks:

Troo Stratum (Plot aiza: 20' )	Absolute	Dominant Species?	Indicator	Dominance Test worksheet
Tree Stratum (Plot size: 30' )	% Cover	Species?	Status	Dominance Test worksheet:
1. Fraxinus americana	60	Yes	FACU	Number of Dominant Species
2. Acer rubrum	25	Yes	FAC	That Are OBL, FACW, or FAC:3(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: 60.0% (A/B)
7				Prevalence Index worksheet:
	85	=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15' )				OBL species 0 x 1 = 0
1. Lonicera morrowii	30	Yes	FACU	FACW species 55 x 2 = 110
2. Cornus racemosa	20	Yes	FAC	FAC species 70 x 3 = 210
3. Rhamnus cathartica	5	No	FAC	FACU species106 x 4 =424
4				UPL species 0 x 5 = 0
5				Column Totals: 231 (A) 744 (B)
6				Prevalence Index = B/A = 3.22
7		<u> </u>		Hydrophytic Vegetation Indicators:
	55	=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	3 - Prevalence Index is ≤3.0 <sup>1</sup>
2. Solidago rugosa	15	No	FAC	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
3. Lonicera morrowii	8	No	FACU	data in Remarks or on a separate sheet)
4. Solidago gigantea	5	No	FACW	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5. Acer rubrum	5	No	FAC	
6. Fraxinus americana	5	No	FACU	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
7. Inula helenium	3	No	FACU	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.
				and greater than or equal to 0.20 it (1 m) tail.
12	91	=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')	91	= rotal Cover		of size, and woody plants less than 3.20 it tall.
				<b>Woody vines</b> – 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 CF-3

SOIL Sampling Point: WET CF-3

		o the dep				tor or co	nfirm the absence of i	ndicators.)
Depth	Matrix	0/		x Featur		1 2	Tantona	Demode
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-8	10YR 4/2	100					Loamy/Clayey	
8-16	10YR 5/2	69	10YR 2/1	15	С	M	Loamy/Clayey	Distinct redox concentrations
			10YR 3/6	15	С	M		Prominent redox concentrations
			10YR 3/6	1	<u>C</u>	PL		Prominent redox concentrations
	ncentration, D=Deple	etion, RM:	Reduced Matrix, M	S=Mask	ed Sand	Grains.		=Pore Lining, M=Matrix.
Hydric Soil Ir								r Problematic Hydric Soils <sup>3</sup> :
Histosol (			Polyvalue Belo		e (S8) ( <b>L</b>	RR R,		ck (A10) ( <b>LRR K, L, MLRA 149B</b> )
	pedon (A2)		MLRA 149B	,				airie Redox (A16) (LRR K, L, R)
Black His	` '		Thin Dark Surfa					cky Peat or Peat (S3) (LRR K, L, R)
	Sulfide (A4)		High Chroma S					e Below Surface (S8) (LRR K, L)
	Layers (A5)		Loamy Mucky I	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-Mano	ganese Masses (F12) (LRR K, L, R)
Thick Dar	k Surface (A12)		X Depleted Matrix	x (F3)			Piedmont	t Floodplain Soils (F19) ( <b>MLRA 149B</b> )
Sandy Mu	ucky Mineral (S1)		Redox Dark Su	ırface (F	6)		Mesic Sp	odic (TA6) ( <b>MLRA 144A, 145, 149B</b> )
Sandy Gl	eyed Matrix (S4)		Depleted Dark	Surface	(F7)		Red Pare	ent Material (F21)
Sandy Re	edox (S5)		Redox Depress	sions (F8	3)		Very Shal	llow Dark Surface (F22)
Stripped I	Matrix (S6)		Marl (F10) ( <b>LR</b>	R K, L)			Other (Ex	plain in Remarks)
Dark Surf	face (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):							
Type:	-l\·						Ukadaia Cail Bassant	40 Van Van Na
Depth (in							Hydric Soil Present	t? Yes X No
Nemarks.								



Wetland CF-3 View facing north



Wetland CF-3 Soils

# Phase 1

## **SITE PHOTOGRAPHS**

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

Project/Site: CHPE	City/County: Putnam / Washinton Sampling Date: 10/12/21
Applicant/Owner: TDI	State: NY Sampling Point: UPL CF-3
Investigator(s): C. Scrivner, J. Greaves	Section, Township, Range:
	cal relief (concave, convex, none): Convex Slope %: 3
Subregion (LRR or MLRA): LRR R Lat: 43°43'51.71"N	
Soil Map Unit Name: HWE - Hudson and vergennes, steep and very stee	
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 dist	turbed? Are "Normal Circumstances" present? Yes X No
Are Vegetation, Soil, or Hydrology naturally problem	
	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:
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	· · · · · · · · · · · · · · · · · · ·
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 Odo	<u> </u>
<u> </u>	s on Living Roots (C3) Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B3) Presence of Reduced Algal Mat or Crust (B4) Recent Iron Reduction	·
Iron Deposits (B5)  Thin Muck Surface (C'	
Inundation Visible on Aerial Imagery (B7) Other (Explain in Rem	<u>—</u>
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No X Depth (inche	es):
Water Table Present? Yes No X Depth (inche	es):
Saturation Present? Yes No X Depth (inche	es): Wetland Hydrology Present? Yes No _X
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, p	revious inspections), if available:
Remarks:	

Tree Stratum (Plot size: 30' )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. Rhamnus cathartica	10	Yes	FAC	Number of Dominant Species
2. Juniperus virginiana	8	Yes	FACU	That Are OBL, FACW, or FAC: 3 (A)
3. Acer saccharum	3	No	FACU	Total Number of Dominant
4.				Species Across All Strata: 8 (B)
5 6.		<del></del>		Percent of Dominant Species That Are OBL, FACW, or FAC: 37.5% (A/B)
7.				Prevalence Index worksheet:
	21	=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15' )		- Total Gover		OBL species 0 x 1 = 0
1. Lonicera morrowii	40	Yes	FACU	FACW species 5 x 2 = 10
2. Rhamnus cathartica	25	Yes	FAC	FAC species 89 x 3 = 267
3. Cornus racemosa	15	No	FAC	FACU species 102 x 4 = 408
4.				UPL species 5 x 5 = 25
5.				Column Totals: 201 (A) 710 (B)
6.				Prevalence Index = B/A = 3.53
7.				Hydrophytic Vegetation Indicators:
	80	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5' )				2 - Dominance Test is >50%
1. Solidago rugosa	20	Yes	FAC	3 - Prevalence Index is ≤3.0 <sup>1</sup>
Lonicera morrowii	15	Yes	FACU	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
3. Fraxinus americana	12	Yes	FACU	data in Remarks or on a separate sheet)
4. Symphyotrichum ericoides	10	Yes	FACU	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5. Lotus corniculatus	8	No	FACU	1
6. Rhamnus cathartica	8	No	FAC	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
7. Geum aleppicum	6	No	FAC	Definitions of Vegetation Strata:
8. Rubia peregrina	5	No	UPL	
9. Equisetum arvense	5	No	FAC	Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
10. Solidago gigantea	5	No	FACW	
11. Polystichum acrostichoides	6	No	FACU	Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
12.				
	100	=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')		•		Was devided All was devided as assets than 2 00 ft in
1.				<b>Woody vines</b> – All woody vines greater than 3.28 ft in height.
2.				
3.				Hydrophytic
4.				Vegetation Present? Yes No X
		=Total Cover		
Remarks: (Include photo numbers here or on a separa	ite sheet \			
Tremarks. (melade prote frambers field of off a separa	iic sricci.)			

Sampling Point:

UPL CF-3

SOIL Sampling Point: UPL CF-3

Depth Matrix Redox Features  (inches) Color (moist) % Color (moist) % Type¹ Loc² Texture			
	Remarks		
0-4 10YR 4/2 100 Loamy/Clayey			
	inct redox concentrations		
	int redox concentrations		
1011(3/2 0 0 10	int redox concentrations		
<sup>1</sup> Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. <sup>2</sup> Location: PL=Pore L	ining M=Matrix		
Hydric Soil Indicators:  Indicators for Proble			
Histosol (A1) Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10)	(LRR K, L, MLRA 149B)		
Histic Epipedon (A2) MLRA 149B) Coast Prairie Red	dox (A16) ( <b>LRR K, L, R</b> )		
	or Peat (S3) (LRR K, L, R)		
	Surface (S8) (LRR K, L)		
Stratified Layers (A5)  Loamy Mucky Mineral (F1) (LRR K, L)  Thin Dark Surface			
<del>_</del> '	Masses (F12) (LRR K, L, R)		
	lain Soils (F19) (MLRA 149B)		
— · · · · · · · — · · · · — · · · · · ·	(6) (MLRA 144A, 145, 149B)		
	Red Parent Material (F21)  Very Shallow Dark Surface (F22)		
Stripped Matrix (S6) Marl (F10) (LRR K, L) Other (Explain in	` '		
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:			
Depth (inches): Hydric Soil Present?	Yes No _X		
Remarks:			
romano.			
Tomano.			



**Upland CF-3 View facing west** 



**Upland CF-3 Soils** 

# Phase 1

# **SITE PHOTOGRAPHS**

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

Project/Site: CHPE	City/County: Putnam / Washington Sampling Date: 10/12/21				
Applicant/Owner: TDI	State: NY Sampling Point: WET CG-4				
Investigator(s): C. Scrivner, J. Greaves	Section, Township, Range:				
	relief (concave, convex, none): Concave Slope %: 2				
Subregion (LRR or MLRA): LRR R Lat: 43-43-49.45N	Long: 73-23-15.21W Datum: WGS 84				
Soil Map Unit Name: VeC - Vergennes silty clay loam, 6 to 12 percent slope					
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	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 CG-4				
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) 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 (C					
Sediment Deposits (B2)  Oxidized Rhizospheres of Deposits (B2)	<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)  Other (Furlainia Beneath	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):	·				
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, pre	vious inspections), if available:				
Remarks:					
Nontaino.					

10	Absolute Dominant Indicator <u> % Cover Species? Status Dominance Test worksheet:</u>
10	5 Yes FAC Number of Dominant Species
10	·
10	Total Number of Dominant
10	Species Across All Strata: 8(B)
10	Percent of Dominant Species
10	That Are OBL, FACW, or FAC: 62.5% (A/B)
Sapling/Shrub Stratum   (Plot size: 15' )	Prevalence Index worksheet:
15   Yes   FAC	
15   Yes   FACW	
15	<u> </u>
10	<del></del>
10	<u> </u>
100	<del></del>
100	
100	
Solidago rugosa   25	Hydrophytic Vegetation Indicators:
Solidago rugosa   25	1 - Rapid Test for Hydrophytic Vegetation
2. Symphyotrichum ericoides 15 Yes FACU 3. Solidago gigantea 15 Yes FACW 4. Symphyotrichum novae-angliae 10 No FACW 5. Phalaris arundinacea 10 No FACW 6. Lythrum salicaria 8 No OBL 7. Lonicera morrowii 5 No FACU 8. Eutrochium maculatum 5 No OBL 9. Equisetum arvense 2 No FAC 10. 11. 12. 95 =Total Cover	X 2 - Dominance Test is >50%
3.   Solidago gigantea   15   Yes   FACW     4.   Symphyotrichum novae-angliae   10   No   FACW     5.   Phalaris arundinacea   10   No   FACW     6.   Lythrum salicaria   8   No   OBL     7.   Lonicera morrowii   5   No   FACU     8.   Eutrochium maculatum   5   No   OBL     9.   Equisetum arvense   2   No   FAC     10.	
1. Symphyotrichum novae-angliae       10       No       FACW         5. Phalaris arundinacea       10       No       FACW         6. Lythrum salicaria       8       No       OBL         7. Lonicera morrowii       5       No       FACU         8. Eutrochium maculatum       5       No       OBL         9. Equisetum arvense       2       No       FAC         10.       95       =Total Cover         Noody Vine Stratum       (Plot size: 30')       30'	
10 No FACW   So. Lythrum salicaria   8 No OBL   7. Lonicera morrowii   5 No FACU   8. Eutrochium maculatum   5 No OBL   7. Equisetum arvense   2 No FACU   7. Lonicera morrowii   5 No OBL   7. Lonicera morrowii   7. Lo	15 Yes FACW data in Remarks or on a separate sheet)
S. Lythrum salicaria	
7. Lonicera morrowii 5 No FACU  8. Eutrochium maculatum 5 No OBL  9. Equisetum arvense 2 No FAC  10.	10 No FACW Indicators of hydric soil and wetland hydrology must be
S.   Eutrochium maculatum   5	· · · · · · · · · · · · · · · · · · ·
2 No FAC   10.	5 No FACU Definitions of Vegetation Strata:
10.	5 No OBL Tree – Woody plants 3 in. (7.6 cm) or more in diamete
11	
2.	Sapling/shrub – Woody plants less than 3 in. DBH
95	and proportion the proportion of the 2 confe (4 pp.) tall
Noody Vine Stratum (Plot size: 30' )  2.	Herb – All herbaceous (non-woody) plants, regardless
2	
2	Woody vines – All woody vines greater than 3.28 ft in
3.	h alaba
<del></del>	
	Hydrophytic
t.	
=Total Cover	=Total Cover
Remarks: (Include photo numbers here or on a separate sheet.)	

SOIL Sampling Point: WET CG-4

	ription: (Describe t	o the dep				or or co	onfirm the absence of	indicators.)	
Depth	Matrix			k Featur		. 2			
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks	
0-5	10YR 3/2	100					Loamy/Clayey		
5-8	10YR 4/1	92	10YR 4/6	8	С	M	Loamy/Clayey	Prominent redox concentrations	
8-16	10YR 5/1	79	10YR 5/6	20	С	<u>M</u>	Mucky Loam/Clay	Prominent redox concentrations	
			10YR 2/1	1	<u>C</u>	<u>M</u>		Distinct redox concentrations	
			·						
								_	
								_	
	oncentration, D=Deple	etion, RM	=Reduced Matrix, MS	S=Mask	ed Sand	Grains.		L=Pore Lining, M=Matrix.	
Hydric Soil I			5 5.		(00) (1			or Problematic Hydric Soils <sup>3</sup> :	
Histosol			Polyvalue Belov		ce (S8) ( <b>L</b>	.KK K,		ck (A10) (LRR K, L, MLRA 149B)	
Black His	oipedon (A2)		Thin Dark Surfa		(I RR R	MI RA	? Coast Prairie Redox (A16) (LRR K, L, R)  5 cm Mucky Peat or Peat (S3) (LRR K, L, R)  Polyvalue Below Surface (S8) (LRR K, L)		
	n Sulfide (A4)		High Chroma S						
	Layers (A5)		Loamy Mucky N				Thin Dark Surface (S9) (LRR K, L)		
X 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)		X Depleted Matrix	(F3)			Piedmon	t Floodplain Soils (F19) ( <b>MLRA 149B</b> )	
	lucky Mineral (S1)		Redox Dark Su	rface (F	6)		Mesic Sp	podic (TA6) ( <b>MLRA 144A, 145, 149B</b> )	
	leyed Matrix (S4)		Depleted Dark					ent Material (F21)	
	edox (S5) Matrix (S6)		Redox Depress		3)			allow Dark Surface (F22) xplain in Remarks)	
	rface (S7)		Marl (F10) ( <b>LRI</b>	Χ <b>K</b> , <b>L</b> )			Other (E.	xpiain in Remarks)	
Daik Sui	nace (S7)								
<sup>3</sup> Indicators of	hydrophytic vegetation	on and w	etland hydrology mus	st be pre	sent, unl	ess distu	irbed or problematic.		
	_ayer (if observed):						·		
Type:									
Depth (ir	nches):						Hydric Soil Presen	t? Yes <u>X</u> No	
Remarks:									



Wetland CG-4 View facing northeast



Wetland CG-4 Soils

Phase 1

# SITE PHOTOGRAPHS

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

Project/Site: CHPE	City/County: Putnam / Washington Sampling Date: 10/12/21				
Applicant/Owner: TDI	State: NY Sampling Point: UPL CG-4				
Investigator(s): C. Scrivner, J. Greaves	Section, Township, Range:				
	relief (concave, convex, none): Convex Slope %: 5				
Subregion (LRR or MLRA): LRR R Lat: 43-43-49.23N	Long: 73-23-15.28W Datum: WGS 84				
Soil Map Unit Name: VeC - Vergennes silty clay loam, 6 to 12 percent slope					
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					
SUMMARY OF FINDINGS – Attach site map showing samp					
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	· · · · · · · · · · · · · · · · · · ·				
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 (	<u> </u>				
Sediment Deposits (B2)  Oxidized Rhizospheres of					
Presence of Reduced Iro	· /				
Algal Mat or Crust (B4)  Recent Iron Reduction in  This Much Curfose (C7)					
Iron Deposits (B5) ——Thin Muck Surface (C7) ——Other (Explain in Remort	Shallow Aquitard (D3)  Microtopographic Relief (D4)				
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remark Sparsely Vegetated Concave Surface (B8)	ks) Microtopographic Relief (D4)  FAC-Neutral Test (D5)				
Field Observations:	FAC-Neutral Test (D3)				
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)					
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:			
1. Fraxinus americana	10	Yes	FACU	Number of Dominant Species			
2. 3.				That Are OBL, FACW, or FAC: 1 (A)			
4.				Total Number of Dominant Species Across All Strata:  6 (B)			
5 6		<u> </u>		Percent of Dominant Species That Are OBL, FACW, or FAC: 16.7% (A/B)			
7.				Prevalence Index worksheet:			
	10	=Total Cover		Total % Cover of: Multiply by:			
Sapling/Shrub Stratum (Plot size: 15' )		-		OBL species 0 x 1 = 0			
1. Rhamnus cathartica	15	Yes	FAC	FACW species 0 x 2 = 0			
2. Pinus strobus	5	Yes	FACU	FAC species 17 x 3 = 51			
3.				FACU species 90 x 4 = 360			
4.		· · · · · · · · · · · · · · · · · · ·		UPL species 30 x 5 = 150			
5.		· · · · · · · · · · · · · · · · · · ·		Column Totals: 137 (A) 561 (B)			
6.				Prevalence Index = B/A = 4.09			
7.				Hydrophytic Vegetation Indicators:			
	20	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation			
Herb Stratum (Plot size: 5' )		-		2 - Dominance Test is >50%			
Lotus corniculatus	30	Yes	FACU	3 - Prevalence Index is ≤3.0 <sup>1</sup>			
2. Pastinaca sativa	20	Yes	UPL	4 - Morphological Adaptations <sup>1</sup> (Provide supporting			
3. Cirsium arvense	15	Yes	FACU	data in Remarks or on a separate sheet)			
4. Cichorium intybus	10	No	FACU	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)			
5. Lolium pratense	10	No	FACU	<del></del>			
6. Vicia cracca	10	No	UPL	<ul> <li>Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.</li> </ul>			
7. Solidago canadensis	10	No	FACU	Definitions of Vegetation Strata:			
8. Rhamnus cathartica	2	No	FAC				
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.							
	107	=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:)				Woody vines – All woody vines greater than 3.28 ft in			
1				height.			
2				Hudanah dia			
3.		·		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:

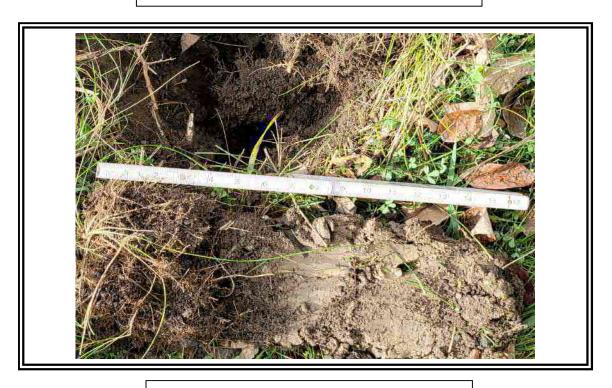
UPL CG-4

SOIL Sampling Point: UPL CG-4

Profile Desci Depth	ription: (Describe to Matrix	o the de		<b>ment th</b> x Featur		tor or co	nfirm the absence of indic	cators.)	
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks	
0-5	10YR 3/2	100					Loamy/Clayey		
5-16	10YR 3/3	92	10YR 4/6	8			Mucky Loam/Clay	Distinct redox concentration	ns
3-10	101103/3		1011( 4/0				Wideky Edani/Olay	Distinct redox concentration	7113
<sup>1</sup> Type: C=Co	ncentration, D=Deple	etion RN	M-Reduced Matrix M	IS-Mask	ed Sand	Grains	<sup>2</sup> Location: PL=Pe	ore Lining, M=Matrix.	
Hydric Soil In		, , , , , , , , , , , , , , , , , , ,	readood matrix, ii	io-maoi	tou ouriu	oranio.		oblematic Hydric Soils <sup>3</sup> :	
Histosol (			Polyvalue Belo	w Surfa	ce (S8) (I	LRR R,		A10) ( <b>LRR K, L, MLRA 149</b>	<b>B</b> )
Histic Epi	ipedon (A2)		MLRA 149B	)			Coast Prairie	Redox (A16) (LRR K, L, R	2)
Black His			Thin Dark Surface (S9) (LRR R, MLRA 1					Peat or Peat (S3) (LRR K,	
	n Sulfide (A4)		High Chroma S					low Surface (S8) (LRR K, I	L)
	Layers (A5)	(044)	Loamy Mucky I			R K, L)		rface (S9) (LRR K, L)	. D\
	Below Dark Surface	(A11)	Loamy Gleyed		F2)			ese Masses (F12) (LRR K,	
	rk Surface (A12) ucky Mineral (S1)		Depleted Matri Redox Dark Su		·6)			odplain Soils (F19) ( <b>MLRA</b> c (TA6) ( <b>MLRA 144A, 145,</b>	
	leyed Matrix (S4)		Depleted Dark					Material (F21)	
	edox (S5)		Redox Depress		` '			Dark Surface (F22)	
Stripped	Matrix (S6)		Marl (F10) ( <b>LR</b>	R K, L)			Other (Explain	in in Remarks)	
Dark Sur	face (S7)								
2									
	hydrophytic vegetation.aver (if observed):	on and w	vetland hydrology mu	st be pre	esent, un	less distu	urbed or problematic.		
Type:	.ayer (if observed):								
Depth (in	ohoo):						Hydric Soil Present?	Voc. No.	V
							Hydric Soil Fresent?	Yes No _	
Remarks:									



**Upland CG-4 View facing east** 



**Upland CG-4 Soils** 

Phase 1

# **SITE PHOTOGRAPHS**

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

Project/Site: CHPE	City/County: Putnam / Washington Sampling Date: 10/12/21					
Applicant/Owner: TDI	State: NY Sampling Point: WET CH-3					
Investigator(s): C. Scrivner, J. Greaves	Section, Township, Range:					
	relief (concave, convex, none): Concave Slope %: 2					
Subregion (LRR or MLRA): LRR R Lat: 43-43-33.55N	Long: 73-23-19.90W Datum: WGS 84					
Soil Map Unit Name: VeB - Vergennes silty clay loam, 3 to 8 percent slopes	<del></del>					
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 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 CH-3					
Palustrine Emergent Marsh. Edinger classification: Shallow Emergent Mars	;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)					
Surface Water (A1) Water-Stained Leaves (B	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 (						
Sediment Deposits (B2)  X Oxidized Rhizospheres of	<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)	<u> </u>					
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):	: <u></u>					
Water Table Present? Yes No X Depth (inches): Saturation Present? Yes X No Depth (inches):	: <u></u>					
	:10 Wetland Hydrology Present? YesX No					
(includes capillary fringe)						
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	vious inspections), if available:					
Remarks: This wetland recieves hydrology from the existing roadside drainage culvert	t.					

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: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:(A/B)			
7				Prevalence Index worksheet:			
		=Total Cover		Total % Cover of: Multiply by:			
Sapling/Shrub Stratum (Plot size:)				OBL species6 x 1 =6			
1. Rhamnus cathartica	2	No	FAC	FACW species 75 x 2 = 150			
2				FAC species 2 x 3 = 6			
3				FACU species17 x 4 =68			
4				UPL species 5 x 5 = 25			
5				Column Totals: 105 (A) 255 (B)			
6.				Prevalence Index = B/A = 2.43			
7.				Hydrophytic Vegetation Indicators:			
	2	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation			
Herb Stratum (Plot size: 5' )		•		X 2 - Dominance Test is >50%			
1. Phalaris arundinacea	60	Yes	FACW	X 3 - Prevalence Index is ≤3.0 <sup>1</sup>			
2. Symphyotrichum novae-angliae	15	No	FACW	4 - Morphological Adaptations <sup>1</sup> (Provide supporting			
3. Symphyotrichum ericoides	10	No	FACU	data in Remarks or on a separate sheet)			
4. Lythrum salicaria	6	No	OBL	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)			
5. Cirsium arvense	5	No	FACU	- 1 Indicators of hydric soil and wetland hydrology must be			
6. Pastinaca sativa	5	No	UPL	present, unless disturbed or problematic.			
7. Achillea millefolium	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			
	103	=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.							
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 CH-3

SOIL Sampling Point: WET CH-3

Depth	Matrix	o tne ae <sub>l</sub>		m <b>ent tn</b> e 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
0-7	10YR 4/2	93	7.5YR 5/6	5	С	М	Mucky Loam/Clay	Prominent redox concentrations
			7.5YR 3/4	2	С	PL		Distinct redox concentrations
7-16	7.5YR 5/1	60	7.5YR 4/6	40	С	М	Mucky Loam/Clay	Prominent redox concentrations
		<u> </u>			_ _ _			
		<u> </u>		<u> </u>		<u> </u>		
¹Type: C=Co	oncentration, D=Deple	etion, RM	=Reduced Matrix, M	S=Mask	ed Sand	Grains.	<sup>2</sup> Location: P	L=Pore Lining, M=Matrix.
Black Hi Hydroge Stratified Depleted Thick Da Sandy M Sandy G Sandy R Stripped Dark Sui	(A1) pipedon (A2)		Polyvalue Belo  MLRA 149B; Thin Dark Surfa  High Chroma S  Loamy Mucky I  Loamy Gleyed  X Depleted Matrix  Redox Dark Su  Depleted Dark  ? Redox Depress  Marl (F10) (LR)	) ace (S9) bands (S Vineral ( Matrix (F3) urface (F6) Surface bions (F8 R K, L)	(LRR R, 11) (LRF F1) (LRF F2) 6) (F7)	, MLRA 1 R K, L) R K, L)	2 cm Mu ? Coast Pr 5 cm Mu Polyvalu Thin Dar Iron-Mar Piedmon Mesic Sp Red Pare Very Sha Other (E	or Problematic Hydric Soils <sup>3</sup> :  ck (A10) (LRR K, L, MLRA 149B)  rairie Redox (A16) (LRR K, L, R)  cky Peat or Peat (S3) (LRR K, L, R)  e Below Surface (S8) (LRR K, L)  ck Surface (S9) (LRR K, L)  nganese Masses (F12) (LRR K, L, R)  at Floodplain Soils (F19) (MLRA 149B)  codic (TA6) (MLRA 144A, 145, 149B)  ent Material (F21)  allow Dark Surface (F22)  xplain in Remarks)
Туре:	Layer (if observed):							
Depth (II	nches):						Hydric Soil Preser	nt? Yes X No



Wetland CH-3 View facing north



Wetland CH-3 Soils

Phase 1

# SITE PHOTOGRAPHS

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

Project/Site: CHPE	City/County: Putnam / Washington Sampling Date: 10/12/21
Applicant/Owner: TDI	State: NY Sampling Point: UPL CH-3
Investigator(s): C. Scrivner, J. Greaves	Section, Township, Range:
	relief (concave, convex, none): None Slope %: 0
Subregion (LRR or MLRA): LRR R Lat: 43-43-33.47N	Long: 73-23-19.76W Datum: WGS 84
Soil Map Unit Name: VeB - Vergennes silty clay loam, 3 to 8 percent slopes	
·	
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 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 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 (	(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 in	<u> </u>
Iron Deposits (B5) — Thin 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	evious inspections), if available:
Damanda	
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 0 x 1 = 0		
1				FACW species 0 x 2 = 0		
2				FAC species 35 x 3 = 105		
3				FACU species 40 x 4 = 160		
4				UPL species 30 x 5 = 150		
5.				Column Totals: 105 (A) 415 (B)		
6.				Prevalence Index = B/A = 3.95		
7.				Hydrophytic Vegetation Indicators:		
		=Total Cover		1 - Rapid Test for Hydrophytic Vegetation		
Herb Stratum (Plot size: 5' )		<u>-</u>		2 - Dominance Test is >50%		
1. Setaria pumila	35	Yes	FAC	3 - Prevalence Index is ≤3.0 <sup>1</sup>		
2. Pastinaca sativa	15	Yes	UPL	4 - Morphological Adaptations <sup>1</sup> (Provide supporting		
Rubia peregrina	15	Yes	UPL	data in Remarks or on a separate sheet)		
4. Lotus corniculatus	10	No	FACU	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)		
5. Symphyotrichum ericoides	10	No	FACU			
6. Cirsium arvense	10	No	FACU	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.		
7. Cichorium intybus	5	No	FACU	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.				<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. 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 separa						
remarks. (include photo numbers here of on a separ-	ate sneet.)					

Sampling Point:

UPL CH-3

**SOIL** Sampling Point: UPL CH-3

		o the dep				or or co	nfirm the absence of indicat	ors.)
Depth	Matrix			x Featur		. 2	<del>-</del> .	5 .
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-11	10YR 2/2	100					Loamy/Clayey	
11-16	10YR 3/2	100					Loamy/Clayey	
	_							
	_							
	_							
<sup>1</sup> Type: C=Con	centration, D=Deple	etion, RM=	Reduced Matrix, M	S=Mask	ed Sand	Grains.	<sup>2</sup> Location: PL=Pore	Lining, M=Matrix.
Hydric Soil In	dicators:							lematic Hydric Soils <sup>3</sup> :
Histosol (A			Polyvalue Belo		ce (S8) ( <b>L</b>	.RR R,		)) (LRR K, L, MLRA 149B)
Histic Epip			MLRA 149B	,	(1 DD D	MIDAA		edox (A16) (LRR K, L, R)
Black Histi	Sulfide (A4)		Thin Dark Surf High Chroma S					at or Peat (S3) (LRR K, L, R) v Surface (S8) (LRR K, L)
	_ayers (A5)		Loamy Mucky					ce (S9) (LRR K, L)
	Below Dark Surface	(A11)	Loamy Gleyed			ι <b>κ, ∟</b> )		e Masses (F12) (LRR K, L, R)
	Surface (A12)	(/ ( ) / )	Depleted Matri		<i>L</i> )			plain Soils (F19) ( <b>MLRA 149B</b> )
	cky Mineral (S1)		Redox Dark Su	. ,	6)			A6) (MLRA 144A, 145, 149B)
	eyed Matrix (S4)		Depleted Dark				Red Parent Mat	
Sandy Red			Redox Depress		` '			ark Surface (F22)
Stripped M			Marl (F10) ( <b>LR</b>		•		Other (Explain in	, ,
Dark Surfa	ace (S7)						<del></del>	
•								
	nydrophytic vegetation	on and we	tland hydrology mu	st be pre	sent, unle	ess distur	bed or problematic.	
Type:	iyer (ii observed).							
Depth (inc	hes):						Hydric Soil Present?	Yes No X
Remarks:							.,,	
Nomano.								



**Upland CH-3 View facing west** 



**Upland CH-3 Soils** 

# Phase 1

# SITE PHOTOGRAPHS

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

Project/Site: CHPE	City/County: Putnam / Washinton Sampling Date: 10/12/21
Applicant/Owner: TDI	State: NY Sampling Point: WET CI-4
Investigator(s): C. Scrivner, J. Greaves	Section, Township, Range:
	relief (concave, convex, none): Concave Slope %: 4
Subregion (LRR or MLRA): LRR R Lat: 43-43-33.84N	Long: 73-23-23.37W Datum: WGS 84
Soil Map Unit Name: VeD - Vergennes silty clay loam, 12 to 20 percent slop	<del></del>
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	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 CI-4
Palustrine Emergent Marsh. Edinger classification: Shallow Emergent 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)
Surface Water (A1) Water-Stained Leaves (E	B9) X 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 Iro	
Algal Mat or Crust (B4)Recent Iron Reduction in	
Iron Deposits (B5)  Thin Muck Surface (C7)  V. Other (Fundamin Boundaries)	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7) X 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):	Wetland Hydrology Present? Yes X No
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, prev	vious inspections), if available:
Remarks:	
Adjacent to stream CS8.	

<u>Tree Stratum</u> (Plot size: 30' )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:			
1				Number of Dominant Species			
2				That Are OBL, FACW, or FAC:3(A)			
3. 4.				Total Number of Dominant Species Across All Strata: 3 (B)			
5.				Percent of Dominant Species			
6.				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 55 x 1 = 55			
1.				FACW species 33 x 2 = 66			
2.				FAC species13 x 3 =39			
3.				FACU species 2 x 4 = 8			
4.				UPL species 2 x 5 = 10			
5				Column Totals: 105 (A) 178 (B)			
6.				Prevalence Index = B/A = 1.70			
7.				Hydrophytic Vegetation Indicators:			
		=Total Cover		1 - Rapid Test for Hydrophytic Vegetation			
Herb Stratum (Plot size: 5' )				X 2 - Dominance Test is >50%			
1. Scirpus atrovirens	20	Yes	OBL	X 3 - Prevalence Index is ≤3.0 <sup>1</sup>			
2. Juncus effusus	20	Yes	OBL	4 - Morphological Adaptations <sup>1</sup> (Provide supporting			
3. Mentha arvensis	15	Yes	FACW	data in Remarks or on a separate sheet)			
4. Eupatorium perfoliatum	10	No	FACW	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)			
5. Lythrum salicaria	10	No	OBL	Indicators of hydric soil and wetland hydrology must be			
6. Juncus tenuis	8	No	FAC	present, unless disturbed or problematic.			
7. Symphyotrichum novae-angliae	8	No	FACW	Definitions of Vegetation Strata:			
8. Lycopus americanus	5	No	OBL	Tree – Woody plants 3 in. (7.6 cm) or more in diameter			
9. Equisetum arvense	5	No	FAC	at breast height (DBH), regardless of height.			
10. Symphyotrichum ericoides	2	No	FACU	Sapling/shrub – Woody plants less than 3 in. DBH			
11. Rubia peregrina	2	No	UPL	and greater than or equal to 3.28 ft (1 m) tall.			
12.				Harb All barbaccaus (non woody) plants, regardless			
	105	=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.				height.			
2.							
3.				Hydrophytic Vegetation			
4.				Present? Yes X No			
		=Total Cover					
Remarks: (Include photo numbers here or on a separa	ate sheet.)						
, , , , , , , , , , , , , , , , , , , ,	,						

Sampling Point:

WET CI-4

SOIL Sampling Point: WET CI-4

		o the de				or or co	onfirm the absence of	indicators.)
Depth (inches)	Matrix	%		x Feature	es Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
(inches) 0-7	2.5Y 3/1	92	Color (moist) 10YR 3/6	<u>%</u> 8	C	M	Mucky Loam/Clay	Prominent redox concentrations
7-16	10Y 4/1	90	10YR 4/6	10	<u>C</u>	PL	Mucky Loam/Clay	Prominent redox concentrations
-								
1			B. L. HARLE N				21	L. Boot Living M. Marti
Hydric Soil	oncentration, D=Deple	etion, RM	=Reduced Matrix, MS	3=Maske	ed Sand	Grains.		L=Pore Lining, M=Matrix.  or Problematic Hydric Soils <sup>3</sup> :
Black Hi Hydroge Stratified X Depleted Thick Da Sandy M Sandy G Sandy R Stripped Dark Su	(A1) Dipedon (A2) Sistic (A3) En Sulfide (A4) Di Layers (A5) Di Below Dark Surface Eark Surface (A12) Mucky Mineral (S1) Dieyed Matrix (S4) Edox (S5) Di Matrix (S6) Erface (S7)  I hydrophytic vegetatic		Polyvalue Below MLRA 149B) Thin Dark Surfa High Chroma S Loamy Mucky M X Loamy Gleyed I Depleted Matrix X Redox Dark Su Depleted Dark Su Pepleted Dark Su Redox Depress Marl (F10) (LRI	) ace (S9) Bands (S Mineral ( Matrix (F3) urface (F6 Surface Sions (F8 R K, L)	(LRR R, 11) (LRR F1) (LRR F2) 6) (F7)	MLRA <sup>2</sup>	? Coast Pr 5 cm Mu Polyvalu Thin Dar Iron-Mar Piedmon Mesic Sp Red Pare Very Sha Other (E	ack (A10) (LRR K, L, MLRA 149B) rairie Redox (A16) (LRR K, L, R) raky Peat or Peat (S3) (LRR K, L, R) e Below Surface (S8) (LRR K, L) rk Surface (S9) (LRR K, L) rganese Masses (F12) (LRR K, L, R) at Floodplain Soils (F19) (MLRA 149B) redocic (TA6) (MLRA 144A, 145, 149B) ent Material (F21) allow Dark Surface (F22) xplain in Remarks)
	Layer (if observed):				,		,	
Type: Depth (i	nches):						Hydric Soil Presen	nt? Yes X No
Remarks:								



Wetland CI-4 View facing southeast



**Wetland CI-4 Soils** 

Phase 1

# **SITE PHOTOGRAPHS**

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

Project/Site: CHPE	City/County: Putnam / Washington Sampling Date: 10/12/21
Applicant/Owner: TDI	State: NY Sampling Point: UPL CI-4
Investigator(s): C. Scrivner, J. Greaves	Section, Township, Range:
Landform (hillside, terrace, etc.): Hillslope Local	relief (concave, convex, none): Convex Slope %: 8
Subregion (LRR or MLRA): LRR R Lat: 43-43-33.58N	Long: 73-23-23.53W Datum: WGS 84
Soil Map Unit Name: VeD - Vergennes silty clay loam, 12 to 20 percent slop	
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	<u> </u>
Are Vegetation, Soil, or Hydrologynaturally problema	
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:
Pastureland / 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	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 in	
Iron Deposits (B5)  Thin 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)	avious inspections) if available:
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	vious inspections), ii available.
Remarks:	

<u>Tree Stratum</u> (Plot size: 30' )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1.	/0 00.0.	Ороскос.	Oldido	
2.				Number of Dominant Species That Are OBL, FACW, or FAC:  (A)
3. 4.				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: 0.0% (A/B)
7.				Prevalence Index worksheet:
		=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15' )	·			OBL species 4 x 1 = 4
1.				FACW species 8 x 2 = 16
2.				FAC species 8 x 3 = 24
3.				FACU species 20 x 4 = 80
4.				UPL species 60 x 5 = 300
5.				Column Totals: 100 (A) 424 (B)
6.				Prevalence Index = B/A = 4.24
7.	-			Hydrophytic Vegetation Indicators:
		=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5' )				2 - Dominance Test is >50%
1. Rubia peregrina	30	Yes	UPL	3 - Prevalence Index is ≤3.0 <sup>1</sup>
Pastinaca sativa	30	Yes	UPL	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
Lolium pratense	15	No	FACU	data in Remarks or on a separate sheet)
Symphyotrichum novae-angliae	8	No	FACW	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5. Equisetum arvense	8	No	FAC	
6. Solidago canadensis	5	No No	FACU	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
7. Lythrum salicaria	4	No No	OBL	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.
11.				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				height.
2.				
3.				Hydrophytic
4.	-			Vegetation Present? Yes No X
		=Total Cover		
Remarks: (Include photo numbers here or on a separa				
(manada priorio 1122515 1.315 5.1 5.1 2.1 2.1 2.1 2.1 2.1 2.1 2.1 2.1 2.1 2	no one on,			

Sampling Point:

UPL CI-4

SOIL Sampling Point: UPL CI-4

Depth	Matrix	o trie dep		x Featur		tor or cor	onfirm the absence of indicators.)
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture Remarks
0-7	2.5Y 3/2	100					Loamy/Clayey
7-16	2.5Y 4/3	100					Loamy/Clayey
-							<del></del>
							· · · · · · · · · · · · · · · · · · ·
							·
							·
1			De due ed Metric M			Oneine	21tion Di Donalinia M Matric
Hydric Soil I	oncentration, D=Deple	elion, Rivi	=Reduced Mairix, Mi	5=IVIASK	eu Sanu	Grains.	<sup>2</sup> Location: PL=Pore Lining, M=Matrix.  Indicators for Problematic Hydric Soils <sup>3</sup> :
Histosol			Polyvalue Belov	w Surfac	ce (S8) ( <b>I</b>	RR R,	2 cm Muck (A10) (LRR K, L, MLRA 149B)
	vipedon (A2)		MLRA 149B)		(/(	,	Coast Prairie Redox (A16) (LRR K, L, R)
Black His	stic (A3)		Thin Dark Surfa	ace (S9)	(LRR R	MLRA 1	
Hydrogei	n Sulfide (A4)		High Chroma S	ands (S	311) (LRF	R K, L)	Polyvalue Below Surface (S8) (LRR K, L)
	Layers (A5)		Loamy Mucky N			R K, L)	Thin Dark Surface (S9) (LRR K, L)
	Below Dark Surface	(A11)	Loamy Gleyed		F2)		Iron-Manganese Masses (F12) (LRR K, L, I
	irk Surface (A12)		Depleted Matrix	, ,	·o)		Piedmont Floodplain Soils (F19) (MLRA 149
	lucky Mineral (S1)		Redox Dark Su  Depleted Dark				Mesic Spodic (TA6) ( <b>MLRA 144A, 145, 149</b> Red Parent Material (F21)
	leyed Matrix (S4) edox (S5)		Redox Depress		` '		Very Shallow Dark Surface (F22)
	Matrix (S6)		Marl (F10) (LRI		<i>J</i> )		Other (Explain in Remarks)
	face (S7)			. ,			
<sup>3</sup> Indicators of	hydrophytic vegetation	on and w	etland hydrology mus	st be pre	esent, unl	ess distur	urbed or problematic.
	ayer (if observed):						
Type:							
Depth (in	nches):						Hydric Soil Present? Yes No _X
Remarks:							



**Upland CI-4 View facing west/southwest** 



**Upland CI-4 Soils** 

Phase 1

# **SITE PHOTOGRAPHS**

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

Project/Site: CHPE	City/County: Putnam / Washington Sampling Date: 10/12/21
Applicant/Owner: TDI	State: NY Sampling Point: WET CJ-4
Investigator(s): C. Scrivner, J. Greaves	Section, Township, Range:
	relief (concave, convex, none): Concave Slope %: 0
Subregion (LRR or MLRA): LRR R Lat: 43-43-31.21N	Long: 73-23-43.60W Datum: WGS 84
Soil Map Unit Name: VeD - Vergennes silty clay loam, 12 to 20 percent slop	
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	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 CJ-4
Remarks: (Explain alternative procedures here or in a separate report.) Palustrine Emergent Marsh. Edinger classification: Shallow Emergent Mars	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)
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 (	
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) X Other (Explain in Remark	<u> </u>
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No _X Depth (inches):	
Water Table Present? Yes No X Depth (inches):	
Saturation Present? Yes X No Depth (inches):	12 Wetland Hydrology Present? Yes X No
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	vious inspections), if available:
Remarks: Adjacent to streams CS9 and CS10. Stream CS10 feeds into Wetland CJ.	

	Absolute	Dominant	Indicator				
ree Stratum (Plot size: 30')	% Cover	Species?	Status	Dominance Test worksheet:			
Thuja occidentalis	10	Yes	FACW	Number of Dominant Species			
Rhamnus cathartica	5	Yes	FAC	That Are OBL, FACW, or FAC: 6	(A)		
				Total Number of Dominant			
				Species Across All Strata: 8	(B)		
				Percent of Dominant Species			
				That Are OBL, FACW, or FAC: 75.0%	(A/I		
				Prevalence Index worksheet:			
	15	=Total Cover		Total % Cover of: Multiply b	y:		
pling/Shrub Stratum (Plot size: 15'	)			OBL species 5 x 1 = 5			
Lonicera morrowii	8	Yes	FACU	FACW species 45 x 2 = 90	)		
Rhamnus cathartica	5	Yes	FAC	FAC species53 x 3 =15	9		
Rubus occidentalis	5	Yes	UPL	FACU species 31 x 4 = 12	4		
				UPL species 5 x 5 = 25	5		
				Column Totals: 139 (A) 40	3 (		
				Prevalence Index = B/A = 2.90	)		
				Hydrophytic Vegetation Indicators:			
	18	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation	1		
rb Stratum (Plot size: 5' )				X 2 - Dominance Test is >50%			
Solidago rugosa	25	Yes	FAC	X 3 - Prevalence Index is ≤3.0 <sup>1</sup>			
Solidago gigantea	25	Yes	FACW	4 - Morphological Adaptations <sup>1</sup> (Provide supporti			
Equisetum arvense	15	Yes	FAC	data in Remarks or on a separate sheet)			
Fragaria virginiana	10	No	FACU	<ul> <li>Problematic Hydrophytic Vegetation<sup>1</sup> (Explain)</li> </ul>			
Geranium robertianum	10	No	FACU	- 1 <del></del>			
Onoclea sensibilis	5	No	FACW	<ul> <li>Indicators of hydric soil and wetland hydrology mus present, unless disturbed or problematic.</li> </ul>			
Lythrum salicaria	5	No	OBL	Definitions of Vegetation Strata:			
Symphyotrichum novae-angliae	5	No	FACW				
Symphyotrichum ericoides	3	No	FACU	<b>Tree</b> – Woody plants 3 in. (7.6 cm) or more ir at breast height (DBH), regardless of height.	n diame		
. Rhamnus cathartica	3	No	FAC				
	-			Sapling/shrub – Woody plants less than 3 in and greater than or equal to 3.28 ft (1 m) tall.	. DBH		
	106	=Total Cover		Herb – All herbaceous (non-woody) plants, re of size, and woody plants less than 3.28 ft tall	-		
pody Vine Stratum (Plot size: 30'	)	-10101 00101					
	,			<b>Woody vines</b> – All woody vines greater than height.	3.28 ft		
				Tioight			
				Hydrophytic			
-				Vegetation			
	·			Present? Yes X No No			
		=Total Cover					

SOIL Sampling Point: WET CJ-4

		o the dep				or or co	nfirm the absence of	indicators.)		
Depth	Matrix			x Featur		. 2	<b>-</b> .			
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks		
0-6	2.5Y 3/2	100					Loamy/Clayey			
6-12	2.5Y 4/2	79	10YR 4/4	20	С	M	Loamy/Clayey	Distinct redox concentrations		
			10YR 4/4	1	<u>C</u>	PL		Distinct redox concentrations		
12-16	10YR 4/1	80	7.5YR 5/8	10	С	<u>M</u>	Loamy/Clayey	Prominent redox concentrations		
			7.5YR 3/4	10	С	М		Prominent redox concentrations		
1Typo: C-Co	oncentration, D=Depl	otion PM	- Poducod Matrix M	S-Mack	od Sand	Grains	<sup>2</sup> Location: P	L=Pore Lining, M=Matrix.		
Hydric Soil I		ellori, Kivi	=Reduced Matrix, Mi	S=IVIASK	eu Sanu	Grains.		or Problematic Hydric Soils <sup>3</sup> :		
Histosol			Polyvalue Belo	w Surfac	ce (S8) ( <b>L</b>	.RR R,		ick (A10) (LRR K, L, MLRA 149B)		
Histic Ep	pipedon (A2)		MLRA 149B	)				rairie 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 Mu	icky Peat or Peat (S3) (LRR K, L, R)		
	n Sulfide (A4)		High Chroma S					e Below Surface (S8) (LRR K, L)		
	Layers (A5)		Loamy Mucky N			R K, L)	Thin Dark Surface (S9) (LRR K, L)			
	Below Dark Surface	e (A11)	Loamy Gleyed		<del>-</del> 2)		Iron-Manganese Masses (F12) (LRR K, L, R)			
	rk Surface (A12)		X Depleted Matrix	, ,	<b>C</b> )		Piedmont Floodplain Soils (F19) (MLRA 149B)			
	lucky Mineral (S1) leyed Matrix (S4)		Redox Dark Su Depleted Dark				Mesic Spodic (TA6) ( <b>MLRA 144A, 145, 149B</b> )  Red Parent Material (F21)			
	edox (S5)		Redox Depress				Very Shallow Dark Surface (F22)			
	Matrix (S6)		Marl (F10) (LR		-,		Other (Explain in Remarks)			
	face (S7)									
	hydrophytic vegetati	on and we	etland hydrology mus	st be pre	sent, unl	ess distu	rbed or problematic.			
	_ayer (if observed):									
Type:										
Depth (ir	nches):						Hydric Soil Preser	nt? Yes X No		
Remarks:										



Wetland CJ-4 View facing southeast



Wetland CJ-4 Soils

Phase 1

# **SITE PHOTOGRAPHS**

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

Project/Site: CHPE	City/County: Putnam / Washington Sampling Date: 10/12/21
Applicant/Owner: TDI	State: NY Sampling Point: UPL CJ-4
Investigator(s): C. Scrivner, J. Greaves	Section, Township, Range:
Landform (hillside, terrace, etc.): Hillslope Local	relief (concave, convex, none): Convex Slope %: 3
Subregion (LRR or MLRA): LRR R Lat: 43-43-30.65N	Long: 73-23-43.94W Datum: WGS 84
Soil Map Unit Name: VeD - Vergennes silty clay loam, 12 to 20 percent slo	
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.
Outmant of Findings Attach and map anoming same	
Hydrophytic Vegetation Present?  Yes NoX	Is the Sampled Area
Hydric Soil Present?  Yes No X	within a Wetland? Yes No X
Wetland Hydrology Present? Yes NoX Remarks: (Explain alternative procedures here or in a separate report.)	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 (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 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)  Other (Fundamental Property (B7))	
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), ii available.
Remarks:	
Nonano.	

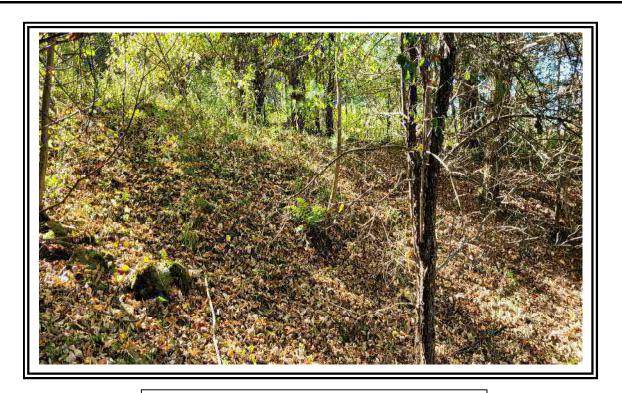
Tree Stratum (Plot size: 30' )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. Pinus strobus	30	Yes	FACU	Dominance rest worksneet.
	25			Number of Dominant Species That Are OBL, FACW, or FAC: 3 (A)
2. Betula lenta		Yes	FACU	That Are OBL, FACW, or FAC:3 (A)
3. Fraxinus americana	15	No No	FACU	Total Number of Dominant
4. Rhamnus cathartica	10	No No	FAC	Species Across All Strata: 8 (B)
5				Percent of Dominant Species
6		· ——		That Are OBL, FACW, or FAC: 37.5% (A/B)
7				Prevalence Index worksheet:
	80	=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15' )				OBL species 0 x 1 = 0
1. Thuja occidentalis	15	Yes	FACW	FACW species 20 x 2 = 40
2. Rhamnus cathartica	15	Yes	FAC	FAC species26 x 3 =78
3. Pinus strobus	10	Yes	FACU	FACU species 96 x 4 = 384
4. Ribes cynosbati	5	No	FACU	UPL species 5 x 5 = 25
5				Column Totals: 147 (A) 527 (B)
6				Prevalence Index = B/A = 3.59
7.				Hydrophytic Vegetation Indicators:
	45	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5' )				2 - Dominance Test is >50%
Onoclea sensibilis	5	Yes	FACW	3 - Prevalence Index is ≤3.0 <sup>1</sup>
2. Athyrium filix-femina	5	Yes	UPL	4 - Morphological Adaptations (Provide supporting
3. Geranium robertianum	3	No	FACU	data in Remarks or on a separate sheet)
4. Symphyotrichum ericoides	2	No	FACU	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5. Fraxinus americana	1	No	FACU	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be
6. Rhamnus cathartica	1	No	FAC	present, unless disturbed or problematic.
7.		· <u></u>		Definitions of Vegetation Strata:
8.		· <u></u>		Tree Monday plants 2 in (7.6 cm) or more in diameter
9.		· <u></u>		<b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
10.				Continued have been deep to a 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.				
	17	=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.				Ŭ
3				Hydrophytic
4.				Vegetation Present? Yes No X
	5	=Total Cover		1105 No _X
Demarke: (Include photo numbers here or on a const		Total Gover		
Remarks: (Include photo numbers here or on a separa	ate sneet.)			

Sampling Point:

UPL CJ-4

SOIL Sampling Point: UPL CJ-4

		the dep				tor or co	nfirm the absence of ind	icators.)
Depth	Matrix			x Featur		. 2		
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-4	10YR 2/1	100					Loamy/Clayey	
4-6	10YR 3/2	95	7.5YR 4/6	5	С	М	Mucky Loam/Clay	Prominent redox concentrations
<sup>1</sup> Type: C=Coi	ncentration, D=Deple	etion, RM	=Reduced Matrix, M	S=Mask	ed Sand	Grains.	<sup>2</sup> Location: PL=F	Pore Lining, M=Matrix.
Hydric Soil Ir								Problematic Hydric Soils <sup>3</sup> :
Histosol (	A1)		Polyvalue Belo	w Surfac	ce (S8) ( <b>I</b>	RR R,	2 cm Muck (	(A10) (LRR K, L, MLRA 149B)
Histic Epi	pedon (A2)		MLRA 149B)	)			Coast Prairi	e Redox (A16) ( <b>LRR K, L, R</b> )
Black His	tic (A3)		Thin Dark Surfa	ace (S9)	(LRR R,	MLRA 1	<b>49B</b> ) 5 cm Mucky	Peat or Peat (S3) (LRR K, L, R)
Hydrogen	Sulfide (A4)		High Chroma S	Sands (S	311) (LRF	R K, L)	Polyvalue B	elow Surface (S8) (LRR K, L)
Stratified	Layers (A5)		Loamy Mucky N	Mineral (	(F1) ( <b>LRF</b>	R K, L)	Thin Dark S	urface (S9) (LRR K, L)
Depleted	Below Dark Surface	(A11)	Loamy Gleyed	Matrix (I	F2)		Iron-Mangar	nese Masses (F12) (LRR K, L, R)
Thick Dar	k Surface (A12)		Depleted Matrix	x (F3)			Piedmont FI	oodplain Soils (F19) (MLRA 149B)
Sandy Mu	ucky Mineral (S1)		Redox Dark Su	ırface (F	6)		Mesic Spodi	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 I	Matrix (S6)		Marl (F10) ( <b>LR</b>	RK,L)			Other (Expla	ain in Remarks)
Dark Surf	ace (S7)						<del></del>	
<sup>3</sup> Indicators of	hydrophytic vegetatio	on and we	etland hydrology mus	et ha nre	sent unl	ace dietu	rhed or problematic	
	ayer (if observed):	on and w	cuana nyarology mas	n be pre	Joont, am	coo dioto	Thea or problematic.	
Type:	Rock	k						
Depth (in	ches):	6					Hydric Soil Present?	Yes No _X
Remarks:								



**Upland CJ-4 View facing west** 



**Upland CJ-4 Soils** 

# Phase 1

# **SITE PHOTOGRAPHS**

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

Project/Site: CHPE	City/County: Putnam / Washington Sampling Date: 10/12/21
Applicant/Owner: TDI	State: NY Sampling Point: WET CK-8
Investigator(s): C. Scrivner, J. Greaves	Section, Township, Range:
Landform (hillside, terrace, etc.): Linear Ditch Local	relief (concave, convex, none): Concave Slope %: 2
Subregion (LRR or MLRA): LRR R Lat: 43-43-30.88N	Long: 73-23-49.58W Datum: WGS 84
Soil Map Unit Name: HLE - Hollis-Charlton association, moderately steep a	
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes X No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly disturl	
Are Vegetation, Soil, or Hydrology naturally problema	
	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 CK-8
Remarks: (Explain alternative procedures here or in a separate report.)	
Palustrine Emergent Marsh. Edinger classification: Purple Loosestrife Mars cattail, gray dogwood and purple loosestrife.	3n. From Wetiand flag CK-13 the Wetiand is dominated by flamow-lear
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
X Surface Water (A1) Water-Stained Leaves (I	
X High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)
X Saturation (A3) Marl Deposits (B15)	Dry-Season Water Table (C2)
Water Marks (B1) Hydrogen Sulfide Odor (	(C1) Crayfish Burrows (C8)
Sediment Deposits (B2)  Oxidized Rhizospheres of	
Drift Deposits (B3) Presence of Reduced Iro	• • • • • • • • • • • • • • • • • • • •
Algal Mat or Crust (B4)Recent Iron Reduction ir	• • • • • • • • • • • • • • • • • • • •
Iron Deposits (B5)  Thin Muck Surface (C7)	<del></del>
Inundation Visible on Aerial Imagery (B7) X 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)	iransiana) if qualishin
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	evious inspections), if available:
Remarks:	
Wetland CK is connect to Wetland CJ via stream CS10.	

<u>Tree Stratum</u> (Plot size: 30' )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:				
1.				Number of Dominant Species				
2.				That Are OBL, FACW, or FAC:3(A)				
3 4				Total Number of Dominant Species Across All Strata:5(B)				
5				Percent of Dominant Species				
6				That Are OBL, FACW, or FAC: 60.0% (A/B)				
7				Prevalence Index worksheet:				
		=Total Cover		Total % Cover of: Multiply by:				
Sapling/Shrub Stratum (Plot size: 15')				OBL species 56 x 1 = 56				
1. Pinus strobus	5	Yes	FACU	FACW species 18 x 2 = 36				
2		. <del></del>		FAC species15 x 3 =45				
3				FACU species10 x 4 =40				
4				UPL species10 x 5 =50				
5				Column Totals: 109 (A) 227 (B)				
6.				Prevalence Index = B/A = 2.08				
7.				Hydrophytic Vegetation Indicators:				
	5	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation				
Herb Stratum (Plot size: 5' )		•		X 2 - Dominance Test is >50%				
Lythrum salicaria	45	Yes	OBL	X 3 - Prevalence Index is ≤3.0 <sup>1</sup>				
Phalaris arundinacea	10	Yes	FACW	4 - Morphological Adaptations <sup>1</sup> (Provide supporting				
Rubia peregrina	10	Yes	UPL	data in Remarks or on a separate sheet)				
4. Juncus tenuis	10	Yes	FAC	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)				
Symphyotrichum novae-angliae	8	No	FACW	<u> </u>				
Euthamia graminifolia	5	No	FAC	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.				
7. Juncus effusus	5	No	OBL	Definitions of Vegetation Strata:				
8. Symphyotrichum ericoides	5	No	FACU					
9. Scirpus atrovirens	4	No	OBL	<b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.				
10. Carex lurida	2	No	OBL	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				
	104	=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				
ა				Present? Yes X No No				
4.								

Sampling Point:

WET CK-8

SOIL Sampling Point: WET CK-8

		the dep				tor or co	onfirm the absence of in	ndicators.)	
Depth (inches)	Matrix	0/		x Featur		Loc <sup>2</sup>	Tavtura	Remarks	
(inches)	Color (moist)	<u>%</u>	Color (moist)		Type <sup>1</sup>		Texture		
0-6	10YR 4/1	98	10YR 2/2	2	<u>C</u>	M	Mucky Loam/Clay	Faint redox concentrations	
6-16	10YR 4/2	70	10YR 4/6	30	С	М	Mucky Loam/Clay	Prominent redox concentrations	
1			Dadus ad Matrix M				21 + i DI	Dans Lining M. Matrix	
Hydric Soil Ir	ncentration, D=Deple	tion, Rivi	=Reduced Matrix, Mi	S=IVIASK	ea Sana	Grains.		=Pore Lining, M=Matrix.  r Problematic Hydric Soils <sup>3</sup> :	
Histosol (			Polyvalue Belov	w Surfac	ce (S8) (L	RR R.		ck (A10) (LRR K, L, MLRA 149B)	
	pedon (A2)		MLRA 149B)		30 (00) (1	,		airie Redox (A16) ( <b>LRR K, L, R</b> )	
Black His			Thin Dark Surfa		(LRR R	MLRA		cky Peat or Peat (S3) (LRR K, L, R)	
	Sulfide (A4)		High Chroma S					Below Surface (S8) (LRR K, L)	
Stratified	Layers (A5)		Loamy Mucky N	Mineral (	F1) (LRF	R K, L)	Thin Dark	Surface (S9) (LRR K, L)	
Depleted	Below Dark Surface	(A11)	Loamy Gleyed	Matrix (F	<del>-</del> 2)		Iron-Mang	ganese Masses (F12) (LRR K, L, R)	
Thick Dar	k Surface (A12)		X Depleted Matrix	k (F3)			Piedmont	Floodplain Soils (F19) (MLRA 149B)	
Sandy Mu	ucky Mineral (S1)		Redox Dark Su	rface (F	6)		Mesic Spo	odic (TA6) ( <b>MLRA 144A, 145, 149B</b> )	
Sandy Gl	eyed Matrix (S4)		Depleted Dark Surface (F7)				Red Parent Material (F21)		
Sandy Re			Redox Depress		3)		Very Shallow Dark Surface (F22)		
	Matrix (S6)		Marl (F10) ( <b>LR</b> l	R K, L)			Other (Ex	plain in Remarks)	
Dark Surf	face (S7)								
<sup>3</sup> Indicators of	hydrophytic vegetatic	n and w	etland hydrology mus	st be pre	sent, unl	ess distu	urbed or problematic.		
	ayer (if observed):								
Type:									
Depth (in	ches):						Hydric Soil Present	t? Yes X No	
Remarks:									
								ļ	



Wetland CK-8 View facing west



Wetland CK-8 Soils

# Phase 1

# SITE PHOTOGRAPHS

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

Project/Site: CHPE	City/County: Putnam / Washington Sampling Date: 10/12/21
Applicant/Owner: TDI	State: NY Sampling Point: UPL CK-8
Investigator(s): C. Scrivner, J. Greaves	Section, Township, Range:
	relief (concave, convex, none): Concave Slope %: 2
Subregion (LRR or MLRA): LRR R Lat: 43-43-31.06N	Long: 73-23-49.56W Datum: WGS 84
Soil Map Unit Name: HLE - Hollis-Charlton association, moderately steep a	
Are climatic / hydrologic conditions on the site typical for this time of year?	
, ,	Yes X No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly disturb	
Are Vegetation, Soil, or Hydrology naturally problema	
SUMMARY OF FINDINGS – Attach site map showing sam	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:
Cropland Fieldcrop / Pastureland	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1)Water-Stained Leaves (B	
High Water Table (A2) Aquatic Fauna (B13)	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	on (C4) Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4) Recent Iron Reduction in	n 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 Remark	ks)Microtopographic Relief (D4)
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:	

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: 2 (B)			
5	•			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 25 x 3 = 75			
3.				FACU species 60 x 4 = 240			
4.				UPL species 15 x 5 = 75			
5.				Column Totals: 100 (A) 390 (B)			
6				Prevalence Index = B/A = 3.90			
7.				Hydrophytic Vegetation Indicators:			
···		=Total Cover		1 - Rapid Test for Hydrophytic Vegetation			
Herb Stratum (Plot size: 5' )		_ Total Gover		2 - Dominance Test is >50%			
	45	Vaa	FACIL				
1. Phleum pratense	45	Yes	FACU	3 - Prevalence Index is ≤3.0 <sup>1</sup>			
2. Setaria pumila	20	Yes	<u>FAC</u>	<ul> <li>4 - Morphological Adaptations<sup>1</sup> (Provide supportin data in Remarks or on a separate sheet)</li> </ul>			
3. Rubia peregrina	15	No	UPL				
4. Dactylis glomerata	10	<u>No</u>	FACU	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)			
5. Prunella vulgaris	5	No	FAC	Indicators of hydric soil and wetland hydrology must be			
6. Cichorium intybus	5	No	FACU	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.				Hart All barbaras (as a second ) who do not a second last			
	100	=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' )		•					
				<b>Woody vines</b> – All woody vines greater than 3.28 ft in height.			
2		<del></del>		noight.			
				Hydrophytic			
3.		· ——		Vegetation			
4.				Present?			
		=Total Cover					
Remarks: (Include photo numbers here or on a separa	ate sheet.)						

UPL CK-8

Sampling Point:

SOIL Sampling Point: UPL CK-8

		the dep				tor or co	onfirm the absence of ind	licators.)		
Depth	Matrix	0/		x Featur		12	T	Damada		
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks		
0-13	2.5Y 3/1	100					Loamy/Clayey			
13-16	2.5Y 4/3	99	10YR 5/8	1	С	PL	Mucky Loam/Clay	Prominent redox concentrations		
<sup>1</sup> Type: C=Cor	ncentration, D=Deple	etion, RM	=Reduced Matrix, M	S=Mask	ed Sand	Grains.	<sup>2</sup> Location: PL=F	Pore Lining, M=Matrix.		
Hydric Soil Ir		,	,					Problematic Hydric Soils <sup>3</sup> :		
Histosol (			Polyvalue Belo	w Surfac	ce (S8) ( <b>I</b>	_RR R,		(A10) ( <b>LRR K, L, MLRA 149B</b> )		
Histic Epi	pedon (A2)		MLRA 149B)	)			Coast Prairi	ie Redox (A16) (LRR K, L, R)		
Black His	tic (A3)		Thin Dark Surfa	ace (S9)	(LRR R,	, MLRA 1	149B) 5 cm Mucky	Peat or Peat (S3) (LRR K, L, R)		
Hydrogen	Sulfide (A4)		High Chroma S	3ands (S	11) (LRF	R K, L)	Polyvalue B	Below Surface (S8) (LRR K, L)		
Stratified	Layers (A5)		Loamy Mucky I	Mineral (	(F1) ( <b>LRF</b>	R K, L)	Thin Dark S	Surface (S9) (LRR K, L)		
Depleted	Below Dark Surface	(A11)	Loamy Gleyed	Matrix (F	F2)		Iron-Manga	nese Masses (F12) (LRR K, L, R)		
Thick Dar	k Surface (A12)		Depleted Matrix	x (F3)			Piedmont F	loodplain Soils (F19) (MLRA 149B)		
Sandy Mu	ucky Mineral (S1)		Redox Dark Su	ırface (F	6)		Mesic Spodic (TA6) (MLRA 144A, 145, 149			
Sandy Gle	eyed Matrix (S4)		Depleted Dark	Surface	(F7)		Red Parent	Material (F21)		
Sandy Re			Redox Depress		3)			w Dark Surface (F22)		
	Matrix (S6)		Marl (F10) ( <b>LR</b>	R K, L)			Other (Expl	ain in Remarks)		
Dark Surf	face (S7)									
<sup>3</sup> Indicators of	hydrophytic vegetatic	on and w	etland hydrology mus	st be pre	esent, unl	ess distu	irbed or problematic.			
	ayer (if observed):									
Type:										
Depth (inc	ches):						Hydric Soil Present?	Yes No _X		
Remarks:										



**Upland CK-8 View facing northwest** 



**Upland CK-8 Soils** 

Phase 1

## **SITE PHOTOGRAPHS**

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

Project/Site: CHPE	City/County: Putnam / Washington Sampling Date: 10/12/21
Applicant/Owner: TDI	State: NY Sampling Point: WET CL-7
Investigator(s): C. Scrivner, J. Greaves	Section, Township, Range:
	relief (concave, convex, none): Concave Slope %: 1
Subregion (LRR or MLRA): LRR R Lat: 43-43-19.83N	Long: 73-24-22.49W Datum: WGS 84
Soil Map Unit Name: RPC - Rock outcrop-Vergennes 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	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 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 CL-7
Palustrine Scrub Shrub 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) 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 (	
Sediment Deposits (B2) Oxidized Rhizospheres of	<u> </u>
Drift Deposits (B3) Presence of Reduced Iro	
Algal Mat or Crust (B4)Recent Iron Reduction in	<del></del>
Iron Deposits (B5)  Thin Muck Surface (C7)  Other (Fundamin Boundaries)	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7) X 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 No X Depth (inches):	Western Historia and Brassanto
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-	wisus inspections), if available:
Describe Recorded Data (stream gauge, monitoring well, aerial priotos, pre-	vious inspections), il avallable.
Remarks: Adjacent to stream CS11.	

Tree Stratum (Plot size: 30' )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:			
<ol> <li>Fraxinus americana</li> <li>2.</li> </ol>	5	Yes	FACU	Number of Dominant Species That Are OBL, FACW, or FAC: 3 (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: 60.0% (A/B)			
7.				Prevalence Index worksheet:			
	5	=Total Cover		Total % Cover of: Multiply by:			
Sapling/Shrub Stratum (Plot size:)				OBL species 8 x 1 = 8			
Cornus racemosa	50	Yes	FAC	FACW species x 2 = 144			
2. Cornus amomum	25	Yes	FACW	FAC species 80 x 3 = 240			
3. Rhamnus cathartica	15	No	FAC	FACU species45 x 4 =180			
4. Lonicera morrowii	5	No	FACU	UPL species 0 x 5 = 0			
5. Acer rubrum	5	No	FAC	Column Totals: 205 (A) 572 (B)			
6				Prevalence Index = B/A = 2.79			
7.				Hydrophytic Vegetation Indicators:			
	100	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation			
Herb Stratum (Plot size: 5' )				X 2 - Dominance Test is >50%			
Osmundastrum cinnamomeum	35	Yes	FACW	X 3 - Prevalence Index is ≤3.0 <sup>1</sup>			
2. Solidago canadensis	30	Yes	FACU	4 - Morphological Adaptations <sup>1</sup> (Provide supporting			
Lysimachia nummularia	10	No	FACW	data in Remarks or on a separate sheet)			
4. Lythrum salicaria	8	No	OBL	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)			
5. Cornus racemosa	5	No	FAC	<u> </u>			
6. Alliaria petiolata	5	No	FACU	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.			
7. Euthamia graminifolia	5	No	FAC	Definitions of Vegetation Strata:			
8. Impatiens capensis	2	No	FACW				
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			
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: WET CL-7

SOIL Sampling Point: WET CL-7



Wetland CL-7 View facing north



Wetland CL-7 Soils

# Phase 1

## **SITE PHOTOGRAPHS**

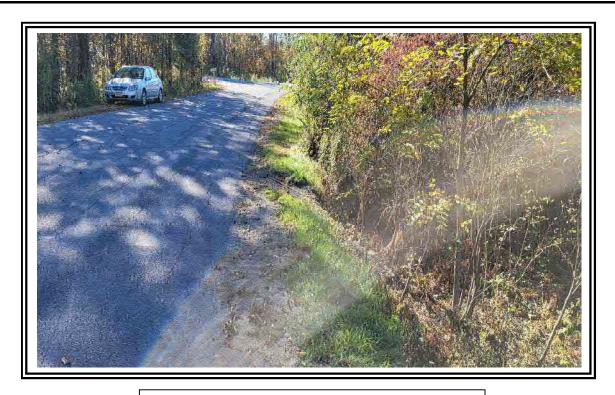
### WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: CHPE	City/County: Putnam / Washington Sampling Date: 10/12/21					
Applicant/Owner: TDI	State: NY Sampling Point: UPL - CL-7					
Investigator(s): C. Scrivner, J. Greaves	Section, Township, Range:					
	relief (concave, convex, none): None Slope %: 0					
Subregion (LRR or MLRA): LRR R Lat: 43-43-19.48N	<del></del>					
Soil Map Unit Name: RPC - Rock outcrop-Vergennes 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 disturb						
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 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 (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	<u> </u>					
Iron Deposits (B5)Thin 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), ii avaliable.					
Remarks:						
- Contained						

	Absolute	Dominant	Indicator	
ree Stratum (Plot size:30')	% 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/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 2 x 2 = 4
				FAC species 2 x 3 = 6
				FACU species 63 x 4 = 252
				UPL species 23 x 5 = 115
				Column Totals: 90 (A) 377 (E
				Prevalence Index = B/A = 4.19
				Hydrophytic Vegetation Indicators:
		=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
erb Stratum (Plot size: 5' )				2 - Dominance Test is >50%
Poa pratensis	50	Yes	FACU	3 - Prevalence Index is ≤3.0 <sup>1</sup>
Rubia peregrina	15	No	UPL	4 - Morphological Adaptations <sup>1</sup> (Provide supporti
Pastinaca sativa	8	No	UPL	data in Remarks or on a separate sheet)
Taraxacum officinale	8	No	FACU	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
Lotus corniculatus	5	No	FACU	The disease of headrings it and continued broaders are
Lysimachia nummularia	2	No	FACW	<sup>1</sup> Indicators of hydric soil and wetland hydrology must present, unless disturbed or problematic.
Toxicodendron radicans	2	No	FAC	Definitions of Vegetation Strata:
				Tree – Woody plants 3 in. (7.6 cm) or more in diamet at breast height (DBH), regardless of height.
).				One Provide Land - Wood and a state of the City DDI
				Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
2.				
	90	=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')				
,,				<b>Woody vines</b> – All woody vines greater than 3.28 ft in height.
				Hydrophytic
				Vegetation Present? Yes No X
		-Total Cover		105 NO X
		=Total Cover		
temarks: (Include photo numbers here or on a separ				

SOIL Sampling Point: UPL - CL-7

	. `	the dep				or or co	nfirm the absence of indica	itors.)
Depth	Matrix			x Featur		. 2	<b>-</b> .	<b>D</b> .
(inches)	Color (moist)	%	Color (moist)	<u>%</u>	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-16	10YR 3/1	100					Sandy	
1Typo: C-Co	ncentration, D=Deple	tion DM	-Poducod Matrix M	S_Mack	od Sand i	Grains	<sup>2</sup> Location: PL=Pore	a Lining M-Matrix
Hydric Soil I		tion, Kivi-	=Neduced Matrix, M	S=IVIASKI	eu Sanu '	Grains.		blematic Hydric Soils <sup>3</sup> :
Histosol (			Polyvalue Belo	w Surfac	e (S8) (L	RR R.		0) (LRR K, L, MLRA 149B)
	pedon (A2)		MLRA 149B		, (00) (=	,		Redox (A16) ( <b>LRR K, L, R</b> )
Black His			Thin Dark Surfa		(LRR R,	MLRA 1		eat or Peat (S3) (LRR K, L, R)
Hydroger	Sulfide (A4)		High Chroma S	Sands (S	11) (LRR	K, L)		w Surface (S8) (LRR K, L)
Stratified	Layers (A5)		Loamy Mucky I	Mineral (	F1) (LRR	( K, L)	Thin Dark Surf	ace (S9) (LRR K, L)
Depleted	Below Dark Surface	(A11)	Loamy Gleyed	Matrix (F	<del>-</del> 2)		Iron-Manganes	se Masses (F12) (LRR K, L, R)
Thick Da	rk Surface (A12)		Depleted Matri	x (F3)			Piedmont Floo	dplain Soils (F19) (MLRA 149B)
Sandy M	ucky Mineral (S1)		Redox Dark Su	ırface (F	6)		Mesic Spodic (	TA6) (MLRA 144A, 145, 149B)
Sandy GI	eyed Matrix (S4)		Depleted Dark	Surface	(F7)		Red Parent Ma	aterial (F21)
Sandy Re			Redox Depress		3)			Oark Surface (F22)
	Matrix (S6)		Marl (F10) ( <b>LR</b>	<b>R K, L</b> )			Other (Explain	in Remarks)
? Dark Sur	face (S7)							
3								
	hydrophytic vegetatio	n and we	etland hydrology mus	st be pre	sent, uni	ess distui	bed or problematic.	
Type:	ayer (if observed):							
_								<b>V N V</b>
Depth (in	cnes):						Hydric Soil Present?	Yes No _X
Remarks:								



**Upland CL-7 View facing west** 



**Upland CL-7 Soils** 

Phase 1

## **SITE PHOTOGRAPHS**

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

Project/Site: CHPE	City/County: Putnam / Washington Sampling Date: 10/12/21
Applicant/Owner: TDI	State: NY Sampling Point: WET CM-3
Investigator(s): C. Scrivner, J. Greaves	Section, Township, Range:
	relief (concave, convex, none): Concave Slope %: 1
Subregion (LRR or MLRA): LRR R Lat: 43-43-13.88N	Long: 73-24-42.13W Datum: WGS 84
Soil Map Unit Name: VeD - Vergennes silty clay loam, 12 to 20 percent slop	
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	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 CM-3
Palustrine Emergent Marsh. Edinger classification: Shallow Emergent Marsi	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)
Surface Water (A1) 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 (Canada San Canada San Can	
Sediment Deposits (B2)  Oxidized Rhizospheres of Deposits (B2)	<u> </u>
Drift Deposits (B3) Presence of Reduced Iro	<u> </u>
Algal Mat or Crust (B4)  Recent Iron Reduction in This Muck Surface (C7)	· · · · · · · · · · · · · · · · · · ·
Iron Deposits (B5)  — Thin Muck Surface (C7)  Inundation Visible on Agricul Imagen (P7)  V Other (Explain in Remark	Shallow Aquitard (D3)  Microtopographic Relief (D4)
Inundation Visible on Aerial Imagery (B7) X 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):	
<u> </u>	Wetland Hydrology Present? Yes X No
(includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre-	vious inspections), if available:
Describe Necorded Data (Stream gauge, monitoring won, acriai priotos, pro	vious inspections), ii avaliabie.
Remarks: Adjacent to stream CS12.	

VEGETATION – Use scientific names of pla	ınts.			Sampling Point: WET CM-3		
Tree Stratum (Plot size:30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:		
1. Rhamnus cathartica	5	Yes	FAC	Number of Dominant Species		
2.		·		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: 15' )				OBL species 65 x 1 = 65		
1. Rhamnus cathartica	10	Yes	FAC	FACW species 14 x 2 = 28		
2. Cornus racemosa	8	Yes	FAC	FAC species 39 x 3 = 117		
3. Cornus amomum	8	Yes	FACW	FACU species 28 x 4 = 112		
4. Lonicera morrowii	5	No	FACU	UPL species 0 x 5 = 0		
5				Column Totals: 146 (A) 322 (B)		
6				Prevalence Index = B/A = 2.21		
7				Hydrophytic Vegetation Indicators:		
	31	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation		
Herb Stratum (Plot size: 5' )				X 2 - Dominance Test is >50%		
1. Lythrum salicaria	40	Yes	OBL	X 3 - Prevalence Index is ≤3.0 <sup>1</sup>		
2. Carex vulpinoidea	25	Yes	OBL	4 - Morphological Adaptations <sup>1</sup> (Provide supporting		
3. Equisetum arvense	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. Inula helenium	8	No	FACU	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be		
6. Cornus racemosa	6	No	FAC	present, unless disturbed or problematic.		
7. Cornus amomum	6	No	FACW	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		
	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. Vitis aestivalis	5	Yes	FACU	height.		
2.						
3.				Hydrophytic		
4.				Vegetation Present? Yes X No		
	5	=Total Cover				
Remarks: (Include photo numbers here or on a separ	ate sheet.)					

SOIL Sampling Point: WET CM-3

	• `	o the de				or or co	nfirm the absence of	indicators.)	
Depth	Matrix	0/		x Feature		Loc <sup>2</sup>	Taytura	Domorko	
(inches) 0-10	Color (moist) 10YR 3/1	99	Color (moist) 10YR 3/6	<u>%</u> 1	Type <sup>1</sup> C	M	Texture	Remarks  Prominent redox concentrations	
							Loamy/Clayey		
10-16	10YR 4/2	72	10YR 4/6	25	<u> </u>	M	Mucky Loam/Clay	Prominent redox concentrations	
			10YR 4/1	3	D	<u>M</u>			
								<del>-</del>	
								_	
1- 0.0							21		
Hydric Soil I	oncentration, D=Deple	etion, RM	=Reduced Matrix, MS	<i>3</i> =Maske	ed Sand	Grains.	<sup>2</sup> Location: PL=Pore Lining, M=Matrix.  Indicators for Problematic Hydric Soils <sup>3</sup> :		
Histosol			Polyvalue Belov	w Surfac	e (S8) (L	RR R.		ick (A10) (LRR K, L, MLRA 149B)	
	pipedon (A2)		MLRA 149B)		)O (OO) (E			rairie Redox (A16) (LRR K, L, R)	
Black His			Thin Dark Surfa		(LRR R,	MLRA 1		icky Peat or Peat (S3) (LRR K, L, R)	
Hydroge	n Sulfide (A4)		High Chroma S	ands (S	11) (LRF	k K, L)	Polyvalu	e Below Surface (S8) (LRR K, L)	
Stratified	Layers (A5)		Loamy Mucky N	√lineral (	F1) ( <b>LRF</b>	R K, L)	Thin Dar	rk Surface (S9) (LRR K, L)	
	Below Dark Surface	(A11)	Loamy Gleyed I	Matrix (F	<del>-</del> 2)		Iron-Mar	nganese Masses (F12) (LRR K, L, R)	
	ark Surface (A12)		X Depleted Matrix	. ,				nt Floodplain Soils (F19) (MLRA 149B)	
	lucky Mineral (S1)		Redox Dark Su					podic (TA6) (MLRA 144A, 145, 149B)	
	lleyed Matrix (S4)		Depleted Dark S					ent Material (F21) allow Dark Surface (F22)	
	edox (S5) Matrix (S6)		Redox Depress Marl (F10) (LRF		P)			xplain in Remarks)	
	rface (S7)		(: :0) (=:::	, _ /				Aprail III I Comaine,	
	(21)								
<sup>3</sup> Indicators of	hydrophytic vegetation	on and w	etland hydrology mus	st be pre	sent, unl	ess distu	rbed or problematic.		
Restrictive L	ayer (if observed):								
Type:									
Depth (ir	nches):						Hydric Soil Preser	nt? Yes X No	
Remarks:									



Wetland CM-3 View facing north



Wetland CM-3 Soils

# Phase 1

## **SITE PHOTOGRAPHS**

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

Project/Site: CHPE	City/County: Putnam / Washington Sampling Date: 10/12/21
Applicant/Owner: TDI	State: NY Sampling Point: UPL CM-3
Investigator(s): C. Scrivner, J. Greaves	Section, Township, Range:
	relief (concave, convex, none): None Slope %: 0
Subregion (LRR or MLRA): LRR R Lat: 43-43-13.78N	Long: 73-24-42.13W Datum: WGS 84
Soil Map Unit Name: VeD - Vergennes silty clay loam, 12 to 20 percent slo	
Are climatic / hydrologic conditions on the site typical for this time of year?	
Are Vegetation, Soil, or Hydrology significantly distur	Yes X No (If no, explain in Remarks.)  rbed? Are "Normal Circumstances" present? Yes X No
Are Vegetation, Soil, or Hydrology naturally problems	<del></del>
	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 (	· · · · · · · · · · · · · · · · · · ·
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)	<u> </u>
Inundation Visible on Aerial Imagery (B7)Other (Explain in Remar	<u> </u>
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No _X Depth (inches):	:
Water Table Present? Yes No X Depth (inches):	:
Saturation Present? Yes No X Depth (inches)	: Wetland Hydrology Present? Yes No _X
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	evious inspections), if available:
Remarks:	

<u>Tree Stratum</u> (Plot size: 30' )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:			
1. Juniperus virginiana	10	Yes	FACU				
Fraxinus americana	5	Yes	FACU	Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)			
3.		100	17100				
4.				Total Number of Dominant Species Across All Strata:  6 (B)			
5 6.				Percent of Dominant Species That Are OBL, FACW, or FAC: 16.7% (A/B)			
7.				Prevalence Index worksheet:			
	15	=Total Cover		Total % Cover of: Multiply by:			
Sapling/Shrub Stratum (Plot size: 15' )		-		OBL species 0 $x 1 = 0$			
Rubus occidentalis	20	Yes	UPL	FACW species 0 x 2 = 0			
2.				FAC species 53 x 3 = 159			
3.				FACU species 55 x 4 = 220			
4.				UPL species 45 x 5 = 225			
5.				Column Totals: 153 (A) 604 (B)			
6.	•			Prevalence Index = B/A = 3.95			
7.				Hydrophytic Vegetation Indicators:			
	20	=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. Poa pratensis	25	Yes	FACU	4 - Morphological Adaptations <sup>1</sup> (Provide supporting			
3. Pastinaca sativa	25	Yes	UPL	data in Remarks or on a separate sheet)			
4. Cichorium intybus	10	No	FACU	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)			
5. Toxicodendron radicans	8	No	FAC	The disease of budging and continued budgets are accepted.			
6. Parthenocissus quinquefolia	5	No	FACU	<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			
	118	=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?			
		=Total Cover					
Remarks: (Include photo numbers here or on a separa	ate sheet.)						

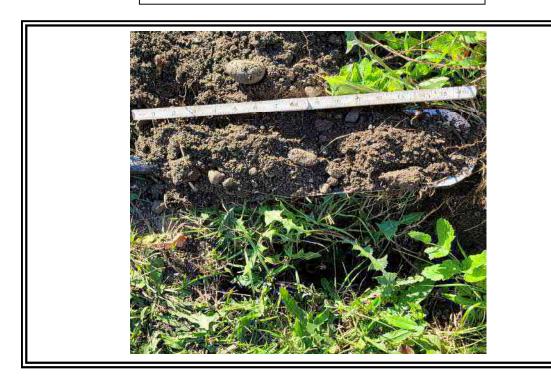
Sampling Point: UPL CM-3

SOIL Sampling Point: UPL CM-3

Depth	ription: (Describe to Matrix	the dep		ment the x Feature		or or co	onfirm the absence of indicators.)
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture Remarks
0-16	10YR 2/1	100					Sandy
							·
							<u> </u>
	oncentration, D=Deplet	tion, RM=	-Reduced Matrix, M	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 Belo		e (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	MI RA 1	Coast Prairie Redox (A16) (LRR K, L, R)  149B) 5 cm Mucky Peat or Peat (S3) (LRR K, L, I
	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,
	irk Surface (A12)	,	Depleted Matrix		,		Piedmont Floodplain Soils (F19) (MLRA 14
Sandy M	lucky Mineral (S1)		Redox Dark Su	ırface (F	6)		Mesic Spodic (TA6) ( <b>MLRA 144A, 145, 14</b> 5
Sandy G	leyed Matrix (S4)		Depleted Dark	Surface	(F7)		Red Parent Material (F21)
	edox (S5)		Redox Depress		3)		Very Shallow Dark Surface (F22)
	Matrix (S6)		Marl (F10) ( <b>LR</b>	R K, L)			Other (Explain in Remarks)
Dark Sur	face (S7)						
3Indicators of	hydrophytic vegetatio	n and wa	stland bydralagy my	ot ha nra	oont unl	ooo diatuu	urhad or problematic
	_ayer (if observed):	n and we	tiand hydrology mus	st be pre	Sent, uni	ess distu	пред от рторієтнанс.
Type:	ayor (ii oboor vou).						
Depth (ir							Hydric Soil Present? Yes No X
			<u> </u>				130 100 <u>X</u>
Remarks:							



**Upland CM-3 View facing south** 



**Upland CM-3 Soils** 

# Phase 1

## **SITE PHOTOGRAPHS**

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

Project/Site: CHPE	City/County: Putnam / Washington Sampling Date: 10/12/21
Applicant/Owner: TDI	State: NY Sampling Point: WET CN-5
Investigator(s): C. Scrivner, J. Greaves	Section, Township, Range:
	relief (concave, convex, none): Concave Slope %: 1
Subregion (LRR or MLRA): LRR R Lat: 43-43-13.25N	Long: 73-24-50.79W Datum: WGS 84
Soil Map Unit Name: VeB - Vergennes silty clay loam, 3 to 8 percent slopes	
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	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 CN-5
Palustrine Emergent Marsh. Edinger classification: Purple Loosestrife 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 (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 (0	
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)	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 No X 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:			
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:(A/B)			
7.				Prevalence Index worksheet:			
		=Total Cover		Total % Cover of: Multiply by:			
Sapling/Shrub Stratum (Plot size:)				OBL species68 x 1 =68			
1				FACW species 15 x 2 = 30			
2				FAC species 12 x 3 = 36			
3.				FACU species 8 x 4 = 32			
4				UPL species 1 x 5 = 5			
5.				Column Totals: 104 (A) 171 (B)			
6				Prevalence Index = B/A = 1.64			
7				Hydrophytic Vegetation Indicators:			
		=Total Cover		1 - Rapid Test for Hydrophytic Vegetation			
Herb Stratum (Plot size: 5' )		_		X 2 - Dominance Test is >50%			
1. Lythrum salicaria	45	Yes	OBL	X 3 - Prevalence Index is ≤3.0 <sup>1</sup>			
Carex vulpinoidea	20	Yes	OBL	4 - Morphological Adaptations <sup>1</sup> (Provide supportir			
3. Symphyotrichum novae-angliae	10	No	FACW	data in Remarks or on a separate sheet)			
4. Symphyotrichum ericoides	8	No	FACU	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)			
5. Equisetum arvense	6	No	FAC	Indicators of hydric coil and wotland hydrology must be			
6. Euthamia graminifolia	6	No	FAC	<ul> <li>Indicators of hydric soil and wetland hydrology must b present, unless disturbed or problematic.</li> </ul>			
7. Eupatorium perfoliatum	5	No	FACW	Definitions of Vegetation Strata:			
8. Scirpus atrovirens	3	No	OBL				
9. Pastinaca sativa	1	No	UPL	<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.							
	104	=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' )	104						
				<b>Woody vines</b> – All woody vines greater than 3.28 ft in height.			
				Toight.			
2. 3.			-	Hydrophytic			
				Vegetation No. No.			
4.		T		Present?			
		_=Total Cover					
Remarks: (Include photo numbers here or on a separa	ate sheet.)						

Sampling Point: WET CN-5

SOIL Sampling Point: WET CN-5

Profile Desc	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		
0-5	10YR 3/2	100	· · · · · · · · · · · · · · · · · · ·				Loamy/Clayey			
5-10	10YR 3/2	80	10YR 5/8	10	С	М	Mucky Loam/Clay	Prominent redox concentrations		
			10YR 5/2	10		М				
10-16	10YR 5/2	55	10YR 5/8	40	С	М	Mucky Loam/Clay	Prominent redox concentrations		
			10YR 4/1	5	D	М				
<sup>1</sup> Type: C=Co	ncentration, D=Deple	etion, RM=	Reduced Matrix, M	S=Mask	ed Sand	Grains.		L=Pore Lining, M=Matrix.		
Hydric Soil I			5 5.		(00) (1			or Problematic Hydric Soils <sup>3</sup> :		
Histosol (	(A1) ipedon (A2)		Polyvalue Belo MLRA 149B		e (58) ( <b>I</b>	KK K,		ıck (A10) ( <b>LRR K, L, MLRA 149B</b> ) rairie Redox (A16) ( <b>LRR K, L, R</b> )		
Black His			Thin Dark Surfa	,	(LRR R	MLRA 1		ucky Peat or Peat (S3) (LRR K, L, R)		
	n Sulfide (A4)	•	—— High Chroma S				Polyvalue Below Surface (S8) (LRR K, L)			
Stratified	Layers (A5)	•	Loamy Mucky I	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)			
	rk Surface (A12)		Depleted Matrix	, ,			Piedmont Floodplain Soils (F19) (MLRA 149B)			
	ucky Mineral (S1)		X Redox Dark Su				Mesic Spodic (TA6) ( <b>MLRA 144A, 145, 149B</b> )			
	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)	,	Wall (F10) (LK	K K, L)			Other (E	xpiain in Kemarks)		
Daik Sui	lace (Sr)									
<sup>3</sup> Indicators of	hydrophytic vegetati	on and we	tland hydrology mu:	st be pre	sent, unl	ess distu	irbed or problematic.			
	ayer (if observed):									
Type:										
Depth (in	ches):						Hydric Soil Preser	nt? Yes X No		
Remarks:										



Wetland CN-5 View facing west



**Wetland CN-5 Soils** 

# Phase 1

# SITE PHOTOGRAPHS

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

Project/Site: CHPE	City/County: Putnam / Washington Sampling Date: 10/12/21
Applicant/Owner: TDI	State: NY Sampling Point: UPL CN-5
Investigator(s): C. Scrivner, J. Greaves	Section, Township, Range:
	relief (concave, convex, none): None Slope %: 0
Subregion (LRR or MLRA): LRR R Lat: 43-43-13.08N	Long: 73-24-51.04W Datum: WGS 84
Soil Map Unit Name: VeB - Vergennes silty clay loam, 3 to 8 percent slopes	
·	
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 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 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  Westland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)  Surface Water (A1) Water-Stained Leaves (B	Surface Soil Cracks (B6) B9) Drainage Patterns (B10)
High Water Table (A2)  Water-Stained Leaves (to a series of the stained Leaves (to a series of the s	Moss Trim Lines (B16)
Saturation (A3)  — Aquatic Fauria (B13)  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)	· · · · · · · · · · · · · · · · · · ·
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remark	rks) Microtopographic Relief (D4)
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:	

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: 2 (B)
5				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:)				OBL species 0 x 1 = 0
1.				FACW species0 x 2 =0
2.				FAC species 20 x 3 = 60
3.				FACU species 50 x 4 = 200
4.				UPL species 30 x 5 = 150
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' )		_ Total Gover		2 - Dominance Test is >50%
	<b>F</b> 0	Voo	FACIL	
1. Poa pratensis	50	Yes	FACU	3 - Prevalence Index is ≤3.0¹
2. Setaria pumila	20	Yes	FAC	4 - Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)
3. Pastinaca sativa	15	<u>No</u>	<u>UPL</u>	
4. Rubia peregrina	15	No	UPL	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 Weedy 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.
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:				Woody vines – All woody vines greater than 3.28 ft in height.
2.				
2				Hydrophytic
4.	-			Vegetation Present? Yes No X
T		=Total Cover		Tresent: Tes No_X_
		= rotal Cover		
Remarks: (Include photo numbers here or on a separ	ate sheet.)			

Sampling Point:

UPL CN-5

SOIL Sampling Point: UPL CN-5

Profile Desc Depth	ription: (Describe to Matrix	the dep		ment the x Feature		or or co	nfirm the absence of indicato	rs.)	
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remar	ks
0-16	10YR 2/2	100					Sandy		
		—							
		—							
	oncentration, D=Deplet	tion, RM=	Reduced Matrix, M	S=Mask	ed Sand	Grains.	<sup>2</sup> Location: PL=Pore I		
Hydric Soil I			5 5.		(00) (1		Indicators for Problem	_	
Histosol			Polyvalue Belo		ce (S8) ( <b>L</b>	.RR R,	2 cm Muck (A10)		
Black His	ipedon (A2)		MLRA 149B) Thin Dark Surfa	,	(I RR R	MI RA 1	Coast Prairie Red 49B) 5 cm Mucky Pea		
	n Sulfide (A4)	•	High Chroma S				Polyvalue Below	, ,	
	Layers (A5)	•	Loamy Mucky I				Thin Dark Surface	, ,	
	Below Dark Surface (	(A11)	Loamy Gleyed			. ,	Iron-Manganese		
Thick Da	rk Surface (A12)		Depleted Matrix	x (F3)			Piedmont Floodp	lain Soils (F19	9) ( <b>MLRA 149B</b> )
Sandy M	ucky Mineral (S1)		Redox Dark Su	ırface (F	6)		Mesic Spodic (TA	46) (MLRA 14	4A, 145, 149B)
	leyed Matrix (S4)	-	Depleted Dark				Red Parent Mate		
	edox (S5)		Redox Depress		3)		Very Shallow Da		22)
	Matrix (S6)		Marl (F10) ( <b>LR</b>	RK,L)			Other (Explain in	Remarks)	
Dark Sur	face (S7)								
<sup>3</sup> Indicators of	hydrophytic vegetatio	n and we	tland hydrology mus	st be pre	sent unl	ess distu	rbed or problematic.		
	ayer (if observed):			<u>ж өө р.ө</u>			sou of problemation		
Type:	,								
Depth (in							Hydric Soil Present?	Yes	No X
Remarks:									
rtomants.									



Upland CN-5 View facing west



**Upland CN-5 Soils** 

# Phase 1

# SITE PHOTOGRAPHS

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

Project/Site: CHPE	City/County: Putnam / Washington Sampling Date: 10/12/21
Applicant/Owner: TDI	State: NY Sampling Point: WET CO-1
Investigator(s): C. Scrivner, J. Greaves	Section, Township, Range:
	relief (concave, convex, none): Concave Slope %: 2
Subregion (LRR or MLRA): LRR R Lat: 43-43-13.61N	Long: 73-24-55.51W Datum: WGS 84
Soil Map Unit Name: VeB - Vergennes silty clay loam, 3 to 8 percent slopes	
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	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 CO-1
Remarks: (Explain alternative procedures here or in a separate report.) Palustrine Emergent Wetland. Edinger classification: Shallow Emergent Ma	ırsh.
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 (C	
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	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 No X 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:
2.				Number of Dominant Species That Are OBL, FACW, or FAC: (A)
3. 4.				Total Number of Dominant Species Across All Strata:3(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 species65 x 1 =65
1				FACW species 5 x 2 = 10
2.				FAC species 0 x 3 = 0
3				FACU species 8 x 4 = 32
4.				UPL species 22 x 5 = 110
5.				Column Totals: 100 (A) 217 (B)
6.		· ·		Prevalence Index = B/A = 2.17
7.				Hydrophytic Vegetation Indicators:
		=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5' )		•		X 2 - Dominance Test is >50%
1. Carex vulpinoidea	35	Yes	OBL	X 3 - Prevalence Index is ≤3.0 <sup>1</sup>
2. Lythrum salicaria	30	Yes	OBL	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
Rubia peregrina		Yes	UPL	data in Remarks or on a separate sheet)
Symphyotrichum ericoides	8	No	FACU	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
Eupatorium perfoliatum	5	No	FACW	
6. Pastinaca sativa	2	No	UPL	<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.		· ——		and greater than or equal to 0.20 it (1 iii) 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' )	100	_ Total Cover		
				<b>Woody vines</b> – All woody vines greater than 3.28 ft in height.
2		· ——		Height.
2				Hydrophytic
4.		· ——		Vegetation Present? Yes X No
4.		Total Cayor		Present? Yes X No
Decreasing (Inches a heater a control to a control		=Total Cover		L
Remarks: (Include photo numbers here or on a separa	ate sneet.)			

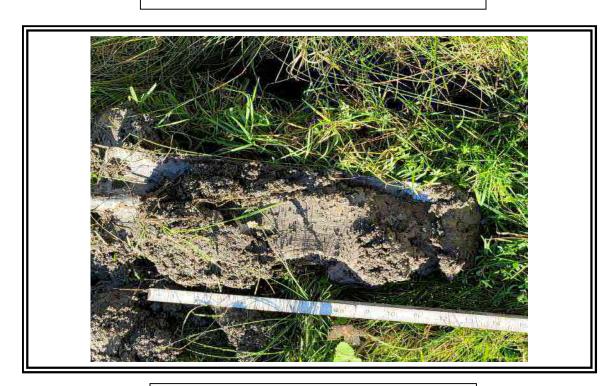
Sampling Point: WET CO-1

SOIL Sampling Point: WET CO-1

		o the dep				or or co	nfirm the absence of in	ndicators.)		
Depth	Matrix	0/		x Featur		12	Tautura	Damarda		
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks		
0-4	2.5Y 3/1	100					Sandy			
4-16	10YR 4/2	75	10YR 5/8	25		M	Mucky Loam/Clay	Prominent redox concentrations		
		<u> </u>				<u> </u>				
1										
Type: C=Co	oncentration, D=Deple	etion, RM	=Reduced Matrix, M	S=Mask	ed Sand	Grains.		=Pore Lining, M=Matrix.  Problematic Hydric Soils <sup>3</sup> :		
Black Hi Hydroge Stratified Depleted Thick Da Sandy M Sandy G Sandy R Stripped X Dark Su	pipedon (A2) stic (A3) n Sulfide (A4) d Layers (A5) d Below Dark Surface ark Surface (A12) ducky Mineral (S1) eleyed Matrix (S4) edox (S5) Matrix (S6) rface (S7)		Polyvalue Below Surface (S8) (LRR R, MLRA 149B) Thin Dark Surface (S9) (LRR R, MLRA 149B) High Chroma Sands (S11) (LRR K, L) Loamy Mucky Mineral (F1) (LRR K, L) Loamy Gleyed Matrix (F2) X Depleted Matrix (F3) Redox Dark Surface (F6) Depleted Dark Surface (F7) Redox Depressions (F8) Marl (F10) (LRR K, L)  wetland hydrology must be present, unless disturbed.				2 cm Muck (A10) (LRR K, L, MLRA 149B)  Coast Prairie Redox (A16) (LRR K, L, R)  5 cm Mucky Peat or Peat (S3) (LRR K, L, R)  Polyvalue Below Surface (S8) (LRR K, L)  Thin Dark Surface (S9) (LRR K, L)  Iron-Manganese Masses (F12) (LRR K, L, R)  Piedmont Floodplain Soils (F19) (MLRA 149B)  Mesic Spodic (TA6) (MLRA 144A, 145, 149B)  Red Parent Material (F21)  Very Shallow Dark Surface (F22)  Other (Explain in Remarks)			
Type: Depth (ir							Hydric Soil Present	? Yes X No		
Remarks:							1			



Wetland CO-1 View facing northwest



**Wetland CO-1 Soils** 

Phase 1

## **SITE PHOTOGRAPHS**

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

Project/Site: CHPE	City/County: Putnam / Washington Sampling Date: 10/12/21
Applicant/Owner: TDI	State: NY Sampling Point: UPL CO-1
Investigator(s): C. Scrivner, J. Greaves	Section, Township, Range:
	relief (concave, convex, none): None Slope %: 0
Subregion (LRR or MLRA): LRR R Lat: 43-43-13.54N	Long: 73-24-55.57W Datum: WGS 84
Soil Map Unit Name: VeB - Vergennes silty clay loam, 3 to 8 percent slopes	
·	
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 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 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)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one is required; check all that apply)	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)  Surface Water (A1) Water-Stained Leaves (E	Surface Soil Cracks (B6) 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)  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)	· · · · · · · · · · · · · · · · · · ·
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):	
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	vious inspections), if available:
Remarks:	

Absoluto	Dominant	Indicator				
% 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: 2 (B)			
			Percent of Dominant Species			
			That Are OBL, FACW, or FAC: 0.0% (A/E			
			Prevalence Index worksheet:			
	=Total Cover		Total % Cover of: Multiply by:			
			OBL species 0 x 1 = 0			
			FACW species 0 x 2 = 0			
			FAC species 0 x 3 = 0			
			FACU species 88 x 4 = 352			
			UPL species15 x 5 =75			
			Column Totals: 103 (A) 427 (E			
			Prevalence Index = B/A = 4.15			
			Hydrophytic Vegetation Indicators:			
	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation			
			2 - Dominance Test is >50%			
55	Yes	FACU	3 - Prevalence Index is ≤3.0 <sup>1</sup>			
30	Yes	FACU	4 - Morphological Adaptations <sup>1</sup> (Provide supportin			
10	No	UPL	data in Remarks or on a separate sheet)			
5	No	UPL	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)			
3	No	FACU	<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 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			
103	=Total Cover		of size, and woody plants less than 3.28 ft tall.			
			Woody vines – All woody vines greater than 3.28 ft in			
			height.			
			Hydrophytic			
			Hydrophytic Vegetation Present? Yes No X			
	55 30 10 5	## Cover   Species?	## Cover   Species?   Status			

SOIL Sampling Point: UPL CO-1

Profile Desc Depth	ription: (Describe to Matrix	the dep		ment the x Feature		or or co	nfirm the absence of indicators.)	indicators.)		
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture Re	Remarks		
0-16	10YR 2/2	100					Sandy			
								-		
	ncentration, D=Deple	tion, RM=	Reduced Matrix, M	S=Mask	ed Sand	Grains.	<sup>2</sup> Location: PL=Pore Lining, M=			
Hydric Soil I					(0.5) (1		Indicators for Problematic Hy			
Histosol		i	Polyvalue Belo		e (S8) ( <b>L</b>	.RR R,	2 cm Muck (A10) (LRR K,			
Black His	ipedon (A2)		MLRA 149B) Thin Dark Surfa	,	(I RR R	MI RA 1	Coast Prairie Redox (A16)  5 cm Mucky Peat or Peat (			
	n Sulfide (A4)		High Chroma S				Polyvalue Below Surface (			
	Layers (A5)	•	Loamy Mucky N				Thin Dark Surface (S9) (LI			
	Below Dark Surface	(A11)	Loamy Gleyed			, -,	Iron-Manganese Masses (			
	rk Surface (A12)	` ′ .	Depleted Matrix		,		Piedmont Floodplain Soils			
Sandy M	ucky Mineral (S1)	'	Redox Dark Su	ırface (F	6)		Mesic Spodic (TA6) (MLR	A 144A, 145, 149B)		
Sandy G	leyed Matrix (S4)		Depleted Dark	Surface	(F7)		Red Parent Material (F21)			
	edox (S5)		Redox Depress		3)		Very Shallow Dark Surface (F22)			
	Matrix (S6)	•	Marl (F10) ( <b>LR</b>	R K, L)			Other (Explain in Remarks)			
Dark Sur	face (S7)									
3Indicators of	hydrophytic vegetation	n and wa	stland bydrology mu	et ha pro	cont unl	oce dietu	rhad or problematic			
	ayer (if observed):	iii and we	tiand hydrology mus	st be pre	Sent, uni	ess uistu	bed of problematic.			
Type:	, ( 00 10).									
Depth (in							Hydric Soil Present? Yes	No X		
Remarks:										



**Upland CO-1 View facing northwest** 



**Upland CO-1 Soils** 

Phase 1

## SITE PHOTOGRAPHS

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

Project/Site: CHPE	City/County: Putnam / Washington Sampling Date: 10/12/21
Applicant/Owner: TDI	State: NY Sampling Point: WET CP-7
Investigator(s): C. Scrivner, J. Greaves	Section, Township, Range:
	I relief (concave, convex, none): Concave Slope %: 3
Subregion (LRR or MLRA): LRR R Lat: 43-43-18.68N	Long: 73-25-3.73W Datum: WGS 84
Soil Map Unit Name: VeD - Vergennes silty clay loam, 12 to 20 percent slo	
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 same	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 CP-7
Palustrine Emergent Marsh. Edinger classification: Shallow Emergent Mars	sh.
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)
X Saturation (A3) Marl Deposits (B15)	Dry-Season Water Table (C2)
Water Marks (B1) Hydrogen Sulfide Odor (	
Sediment Deposits (B2)  Oxidized Rhizospheres	<u> </u>
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)	X FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No X Depth (inches)	i:
Water Table Present? Yes No X Depth (inches)	r
Saturation Present? Yes X No Depth (inches)	: 0 Wetland Hydrology Present? YesX No
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	evious 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: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:			
7				Prevalence Index worksheet:			
		=Total Cover		Total % Cover of: Multiply by:			
Sapling/Shrub Stratum (Plot size:)				OBL species 65 x 1 = 65			
1. Cornus racemosa	10	Yes	FAC	FACW species 0 x 2 = 0			
2				FAC species 20 x 3 = 60			
3				FACU species 0 x 4 = 0			
4.				UPL species 25 x 5 = 125			
5.				Column Totals: 110 (A) 250 (B)			
6.				Prevalence Index = B/A = 2.27			
7.				Hydrophytic Vegetation Indicators:			
	10	=Total Cover		Rapid Test for Hydrophytic Vegetation			
Herb Stratum (Plot size: 5' )		•		X 2 - Dominance Test is >50%			
1. Carex vulpinoidea	45	Yes	OBL	X 3 - Prevalence Index is ≤3.0 <sup>1</sup>			
Lythrum salicaria	20	Yes	OBL	4 - Morphological Adaptations <sup>1</sup> (Provide supporting			
Rubia peregrina	20	Yes	UPL	data in Remarks or on a separate sheet)			
Euthamia graminifolia	10	No	FAC	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)			
5. Pastinaca sativa	5	No	UPL				
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.							
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.							
	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:)				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 separ	ate sheet.)						

Sampling Point: WET CP-7

SOIL Sampling Point: WET CP-7

		o the de				tor or co	onfirm the absence of	indicators.)		
Depth	Matrix	0/		k Feature		Loc <sup>2</sup>	Touture	Domorko		
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type <sup>1</sup>		Texture	Remarks		
0-5	10YR 4/1	75	10YR 5/4	25	<u> </u>	<u>M</u>	Mucky Loam/Clay	Distinct redox concentrations		
5-16	10YR 4/2	55	10YR 4/6	40	<u>C</u>	<u>M</u>	Mucky Loam/Clay	Prominent redox concentrations		
			10YR 5/4	5	С	M		Distinct redox concentrations		
						, <u> </u>				
								<del></del> ,		
	-									
1										
Type: C=Co	oncentration, D=Deple	etion, RM	=Reduced Matrix, MS	3=Maske	ed Sand	Grains.		L=Pore Lining, M=Matrix.  or Problematic Hydric Soils <sup>3</sup> :		
Histosol			Polyvalue Belov	w Surfac	re (S8) (I	RRR		ick (A10) (LRR K, L, MLRA 149B)		
	pipedon (A2)		MLRA 149B)		)C (OO) (E	-IXIX IX,		rairie Redox (A16) (LRR K, L, R)		
Black Hi			Thin Dark Surfa		(LRR R,	MLRA 1		icky Peat or Peat (S3) (LRR K, L, R)		
Hydroge	n Sulfide (A4)		High Chroma S	ands (S	11) (LRF	R K, L)	Polyvalu	e Below Surface (S8) (LRR K, L)		
Stratified	d Layers (A5)		Loamy Mucky N	∕lineral (	F1) ( <b>LRF</b>	R K, L)	Thin Dar	k Surface (S9) (LRR K, L)		
	d Below Dark Surface	(A11)	Loamy Gleyed I		<del>-</del> 2)		Iron-Manganese Masses (F12) (LRR K, L, R)			
	ark Surface (A12)		X Depleted Matrix	, ,	۵)		Piedmont Floodplain Soils (F19) (MLRA 149B)			
	lucky Mineral (S1)		Redox Dark Su				Mesic Spodic (TA6) (MLRA 144A, 145, 149B)			
	edox (S5)		Pepleted Dark Services ? Redox Depress				Red Parent Material (F21)  Very Shallow Dark Surface (F22)			
	Matrix (S6)		Marl (F10) (LRF		) 		Other (Explain in Remarks)			
	rface (S7)			, ,				,		
	f hydrophytic vegetation	on and w	etland hydrology mus	t be pre	sent, unl	ess distu	irbed or problematic.			
	_ayer (if observed):									
Type:										
Depth (ir	nches):						Hydric Soil Preser	nt? Yes X No		
Remarks:										



Wetland CP-7 View facing northwest



**Wetland CP-7 Soils** 

Phase 1

## **SITE PHOTOGRAPHS**

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

Project/Site: CHPE	City/County: Putnam / Washington Sampling Date: 10/12/21
Applicant/Owner: TDI	State: NY Sampling Point: UPL CP-7
Investigator(s): C. Scrivner, J. Greaves	Section, Township, Range:
	relief (concave, convex, none): None Slope %: 0
Subregion (LRR or MLRA): LRR R Lat: 43-43-18.70N	Long: 73-25-3.89W Datum: WGS 84
Soil Map Unit Name: VeD - Vergennes silty clay loam, 12 to 20 percent slo	
Are climatic / hydrologic conditions on the site typical for this time of year?	
Are Vegetation, Soil, or Hydrology significantly disturb	Yes X No (If no, explain in Remarks.) bed? Are "Normal Circumstances" present? Yes X No
Are Vegetation, Soil, or Hydrologynaturally problema	
	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 (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	
Presence of Reduced Iro	· ,
Algal Mat or Crust (B4) Recent Iron Reduction in	
Iron Deposits (B5) — Thin Muck Surface (C7)	,
Inundation Visible on Aerial Imagery (B7)Other (Explain in Remark	
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:	

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: 2 (B)			
5				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 35 x 3 = 105			
3.				FACU species 58 x 4 = 232			
4.				UPL species 7 x 5 = 35			
5.				Column Totals: 100 (A) 372 (B)			
6				Prevalence Index = B/A = 3.72			
7.				Hydrophytic Vegetation Indicators:			
		=Total Cover		1 - Rapid Test for Hydrophytic Vegetation			
Herb Stratum (Plot size: 5' )		_ Total Gover		2 - Dominance Test is >50%			
	F0	Voo	FACIL				
1. Lotus corniculatus	50	Yes	FACU	3 - Prevalence Index is ≤3.0 <sup>1</sup>			
2. Setaria pumila	35	Yes	FAC	4 - Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)			
3. Pastinaca sativa	7	<u>No</u>	UPL				
4. Juniperus virginiana	5	No	FACU	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)			
<ul><li>5. Medicago lupulina</li><li>6.</li></ul>	3	No	FACU	<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.			
11.				Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.			
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:)				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: UPL CP-7

SOIL Sampling Point: UPL CP-7

Profile Desc Depth	ription: (Describe to Matrix	the dep		ment the x Feature		or or co	onfirm the absence of indicators.)	
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture Remarks	
0-16	10YR 3/1	100					Sandy	
							· ·	
							-	
	oncentration, D=Deplet	tion, RM=	-Reduced Matrix, M	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 Belo		e (S8) ( <b>L</b>	.RR R,	2 cm Muck (A10) (LRR K, L, MLRA 149	
Black His	oipedon (A2)		MLRA 149B) Thin Dark Surfa	,	(I RR R	MI RA 1	Coast Prairie Redox (A16) (LRR K, L, R 5 cm Mucky Peat or Peat (S3) (LRR K, I	
	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)
	irk Surface (A12)	,	Depleted Matrix		,		Piedmont Floodplain Soils (F19) (MLRA	
Sandy M	lucky Mineral (S1)		Redox Dark Su	ırface (F	6)		Mesic Spodic (TA6) ( <b>MLRA 144A, 145,</b>	149B)
Sandy G	leyed Matrix (S4)		Depleted Dark	Surface	(F7)		Red Parent Material (F21)	
	edox (S5)		Redox Depress		3)		Very Shallow Dark Surface (F22)	
	Matrix (S6)		Marl (F10) ( <b>LR</b>	R K, L)			Other (Explain in Remarks)	
Dark Sur	face (S7)							
3Indicators of	hydrophytic vegetatio	n and wa	stland bydralagy my	ot ha nra	oont unl	ooo diatu	urhad or problematic	
	_ayer (if observed):	n and we	tiand hydrology mus	st be pre	Sent, uni	ess distu	пред от рторіетнатіс.	
Type:	ayor (ii oboor vou).							
Depth (ir							Hydric Soil Present? Yes No	X
			<u> </u>				injunio con riccomi.	<del>~</del>
Remarks:								



**Upland CP-7 View facing northwest** 



**Upland CP-7 Soils** 

Phase 1

## SITE PHOTOGRAPHS

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

City/County: Putnam / Washington Sampling Date: 10/12/21				
State: NY Sampling Point: WET CP-14				
Section, Township, Range:				
elief (concave, convex, none): Concave Slope %: 0				
Long: 73-25-5.74W Datum: WGS 84				
NWI classification: PEM1				
Yes X No (If no, explain in Remarks.)				
ed? Are "Normal Circumstances" present? Yes X No				
ic? (If needed, explain any answers in Remarks.)				
pling point locations, transects, important features, etc.				
Is the Sampled Area				
within a Wetland? Yes X No				
If yes, optional Wetland Site ID: Near Flag CP-14				
allow Emergent Marsh.				
Secondary Indicators (minimum of two required)				
Surface Soil Cracks (B6)				
Drainage Patterns (B10)				
Moss Trim Lines (B16)				
Dry-Season Water Table (C2)				
C1) Crayfish Burrows (C8)				
n Living Roots (C3) Saturation Visible on Aerial Imagery (C9)				
n (C4) Stunted or Stressed Plants (D1)  Tilled Soile (C6) Y Companying Position (D2)				
Tilled Soils (C6) X Geomorphic Position (D2) Shallow Aquitard (D3)				
s) Microtopographic Relief (D4)				
X FAC-Neutral Test (D5)				
A TACTICULAL TOST (DO)				
4				
4 0				
0 Wetland Hydrology Present? Yes X No				
Noticinal Hydrology Prosont: Pos No				
rious inspections), if available:				

	Absolute	Dominant	Indicator				
<u>Free Stratum</u> (Plot size: 30' )	% Cover	Species?	Status	Dominance Test worksheet:			
				Number of Deminant Species			
				Number of Dominant Species That Are OBL, FACW, or FAC: 4 (A)			
				Tatal Nambara (Barriana)			
				Total Number of Dominant Species Across All Strata: 5 (B)			
				Percent of Dominant Species That Are OBL, FACW, or FAC: 80.0% (A/E			
				Prevalence Index worksheet:			
		=Total Cover		Total % Cover of: Multiply by:			
apling/Shrub Stratum (Plot size: 15' )				OBL species 65 x 1 = 65			
. Cornus sericea	8	Yes	FACW	FACW species 58 x 2 = 116			
Cornus amomum	8	Yes	FACW	FAC species 0 x 3 = 0			
Lonicera morrowii	3	No	FACU	FACU species 13 x 4 = 52			
				UPL species 0 x 5 = 0			
				Column Totals: 136 (A) 233 (E			
				Prevalence Index = B/A = 1.71			
				Hydrophytic Vegetation Indicators:			
	19	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation			
erb Stratum (Plot size: 5' )				X 2 - Dominance Test is >50%			
Leersia oryzoides	30	Yes	OBL	X 3 - Prevalence Index is ≤3.0 <sup>1</sup>			
Typha latifolia	25	Yes	OBL	4 - Morphological Adaptations <sup>1</sup> (Provide supportir			
Lythrum salicaria	10	No	OBL	data in Remarks or on a separate sheet)			
Onoclea sensibilis	10	No	FACW	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)			
Eupatorium perfoliatum	8	No	FACW	-   <del></del>			
Bidens frondosa	8	No	FACW	<ul> <li>Indicators of hydric soil and wetland hydrology must present, unless disturbed or problematic.</li> </ul>			
Lysimachia nummularia	8	No	FACW	Definitions of Vegetation Strata:			
Cyperus esculentus	5	No	FACW				
Cornus sericea	3	No	FACW	<b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diamet at breast height (DBH), regardless of height.			
D							
1.				Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.			
	107	=Total Cover		<b>Herb</b> – All herbaceous (non-woody) plants, regardles of size, and woody plants less than 3.28 ft tall.			
- loody Vine Stratum (Plot size: 30' )							
Vitis aestivalis	10	Yes	FACU	<b>Woody vines</b> – All woody vines greater than 3.28 ft i height.			
				Hydrophytic			
				Vegetation Present? Yes X No			
	10	=Total Cover		_ · · · · · _ · · _ · · _ ·			

SOIL Sampling Point: WET CP-14

		the dep				tor or co	onfirm the absence of inc	licators.)		
Depth ("	Matrix	0/		x Featur		1 2	<b>T</b>	D		
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks		
0-16	10Y 3/1	85	10YR 3/4	15	С	M	Mucky Loam/Clay	Prominent redox concentrations		
	•									
<sup>1</sup> Type: C=Co	ncentration, D=Deplet	tion, RM	=Reduced Matrix, M	S=Mask	ed Sand	Grains.	<sup>2</sup> Location: PL=I	Pore Lining, M=Matrix.		
Hydric Soil II								Problematic Hydric Soils <sup>3</sup> :		
Histosol (	(A1)		Polyvalue Belo	w Surfac	ce (S8) ( <b>L</b>	RR R,	2 cm Muck	(A10) (LRR K, L, MLRA 149B)		
Histic Epi	pedon (A2)		MLRA 149B	)			? Coast Prair	ie Redox (A16) (LRR K, L, R)		
Black His			Thin Dark Surfa					y Peat or Peat (S3) (LRR K, L, R)		
	Sulfide (A4)		High Chroma S					Selow Surface (S8) (LRR K, L)		
	Layers (A5)		Loamy Mucky I			R K, L)		Thin Dark Surface (S9) (LRR K, L)		
	Below Dark Surface (	(A11)	Loamy Gleyed	•	<del>-</del> 2)		Iron-Manganese Masses (F12) (LRR K, L, R)			
	rk Surface (A12)		Depleted Matrix	, ,	0)			Toodplain Soils (F19) (MLRA 149B)		
	ucky Mineral (S1)		X Redox Dark Su					dic (TA6) (MLRA 144A, 145, 149B)		
	eyed Matrix (S4)		Depleted Dark					Material (F21) w Dark Surface (F22)		
Stripped	Matrix (S6)		Redox Depress Marl (F10) (LR		P)			ain in Remarks)		
Dark Surf				, =/			Out of (Exp.	an in Nomano)		
Bank Gan	(61)									
<sup>3</sup> Indicators of	hydrophytic vegetation	n and w	etland hydrology mus	st be pre	sent, unl	ess distu	irbed or problematic.			
	ayer (if observed):		,				•			
Type:										
Depth (in	ches):						Hydric Soil Present?	Yes X No		
Remarks:	<u> </u>									



Wetland CP-14 View facing north



Wetland CP-14 Soils

Phase 1

# SITE PHOTOGRAPHS

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

Project/Site: CHPE	City/County: Putnam / Washington Sampling Date: 10/12/21
Applicant/Owner: TDI	State: NY Sampling Point: UPL CP-14
Investigator(s): C. Scrivner, J. Greaves	Section, Township, Range:
	relief (concave, convex, none): Convex Slope %: 3
Subregion (LRR or MLRA): LRR R Lat: 43-43-20.01N	Long: 73-25-5.89W Datum: WGS 84
Soil Map Unit Name: Sa - Saco silt loam	NWI classification: NA
Are climatic / hydrologic conditions on the site typical for this time of year?	
Are Vegetation, Soil, or Hydrologysignificantly disturb	
Are Vegetation, Soil, or Hydrologynaturally problems	
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:
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 (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 Reduced Irr	
Drift Deposits (B3) Presence of Reduced Iro Algal Mat or Crust (B4) Recent Iron Reduction ir	
Iron Deposits (B5)  Again Mat of Crust (B4)  Iron Deposits (B5)  Thin 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):	
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	evious inspections), if available:
Remarks:	

Tree Stratum (Plot size: 30' )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:			
Tilia americana	10	Yes	FACU	Number of Dominant Species That Are OBL, FACW, or FAC:(A)			
3.         4.				Total Number of Dominant Species Across All Strata: 7 (B)			
<ul><li>5.</li><li>6.</li></ul>				Percent of Dominant Species That Are OBL, FACW, or FAC:14.3%(A/B)			
7				Prevalence Index worksheet:			
	10	=Total Cover		Total % Cover of: Multiply by:			
Sapling/Shrub Stratum (Plot size:)				OBL species 0 x 1 = 0			
1. Lonicera morrowii	8	Yes	FACU	FACW species 2 x 2 = 4			
2. Rhamnus cathartica	6	Yes	FAC	FAC species 14 x 3 = 42			
3. Juniperus virginiana	5	Yes	FACU	FACU species106 x 4 =424			
4.				UPL species12 x 5 =60			
5.				Column Totals: 134 (A) 530 (B)			
6.				Prevalence Index = B/A = 3.96			
7.				Hydrophytic Vegetation Indicators:			
	19	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation			
Herb Stratum (Plot size: 5' )		-		2 - Dominance Test is >50%			
1. Lolium pratense	50	Yes	FACU	3 - Prevalence Index is ≤3.0 <sup>1</sup>			
Solidago canadensis	25	Yes	FACU	4 - Morphological Adaptations <sup>1</sup> (Provide supporting			
Pastinaca sativa	10	No	UPL	data in Remarks or on a separate sheet)			
Toxicodendron radicans	8	No	FAC	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)			
Symphyotrichum ericoides	3	No	FACU	<u> </u>			
6. Vicia cracca	2	No	UPL	<ul> <li>Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.</li> </ul>			
7. Symphyotrichum novae-angliae	2	No	FACW	Definitions of Vegetation Strata:			
8.		110	TAOW	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.							
	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' )		-					
1. Vitis aestivalis	5	Yes	FACU	<b>Woody vines</b> – All woody vines greater than 3.28 ft in height.			
2.		<del></del>		3			
3.	-			Hydrophytic			
4.				Vegetation Present? Yes No X			
	5	=Total Cover		Tresent: Tes NoX_			
Describe. (Include whate continue)		10(a) 00/01					
Remarks: (Include photo numbers here or on a separa	ate sneet.)						

Sampling Point: UPL CP-14

SOIL Sampling Point: UPL CP-14

Profile Description: (Describe to the de	•			or or co	nfirm the absence of indicato	rs.)
Depth Matrix		c Feature		. 2	<b>-</b> .	5
(inches) Color (moist) %	Color (moist)	<u>%</u>	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-10 10YR 2/2 100					Sandy	
<sup>1</sup> Type: C=Concentration, D=Depletion, RM	4-Poducod Matrix M		od Sand (	Grains	<sup>2</sup> Location: PL=Pore L	ining M-Matrix
Hydric Soil Indicators:	/i=Reduced Matrix, Mi	3=IVIA5N	eu Sanu v	Jianis.		ematic Hydric Soils <sup>3</sup> :
Histosol (A1)	Polyvalue Belov	w Surfac	e (S8) (L	RR R.		(LRR K, L, MLRA 149B)
Histic Epipedon (A2)	MLRA 149B)		- () (-	,		dox (A16) ( <b>LRR K, L, R</b> )
Black Histic (A3)	Thin Dark Surfa		(LRR R,	MLRA 1		or Peat (S3) (LRR K, L, R)
Hydrogen Sulfide (A4)	High Chroma S					Surface (S8) (LRR K, L)
Stratified Layers (A5)	Loamy Mucky N	/lineral (	F1) (LRR	K, L)	Thin Dark Surface	e (S9) ( <b>LRR K, L</b> )
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 Floodp	lain Soils (F19) (MLRA 149B)
Sandy Mucky Mineral (S1)	Redox Dark Su	rface (F	6)		Mesic Spodic (TA	A6) (MLRA 144A, 145, 149B)
Sandy Gleyed Matrix (S4)	Depleted Dark	Surface	(F7)		Red Parent Mate	rial (F21)
Sandy Redox (S5)	Redox Depress		3)		Very Shallow Dar	
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 v	vetland hydrology mus	t be pre	sent, unle	ess distui	bed or problematic.	
Restrictive Layer (if observed):  Type: Rock						
						<b>V N V</b>
Depth (inches): 10					Hydric Soil Present?	Yes No _X
Remarks:						



**Upland CP-14 View facing west/northwest** 



**Upland CP-14 Soils** 

# Phase 1

## **SITE PHOTOGRAPHS**

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

Project/Site: CHPE	City/County: Putnam/Washington Sampling Date: 4/5/22
Applicant/Owner: TDI	State: NY Sampling Point: CPA-6 Wet
Investigator(s): N. Frazer & J. Greaves	Section, Township, Range:
Landform (hillside, terrace, etc.): depression Local	relief (concave, convex, none): concave Slope %: 0-1
Subregion (LRR or MLRA): LRR R Lat: 43-43-19.07N	Long: 73-25-6.65W Datum:
Soil Map Unit Name: Saco silt loam (Sa)	NWI classification: PEM/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	
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 Remarks: (Explain alternative procedures here or in a separate report.)	If yes, optional Wetland Site ID:
Shallow emergent marsh/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 (	· · · · · · · · · · · · · · · · · · ·
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)  X Oxidized Rhizospheres	
Presence of Reduced In	
Algal Mat or Crust (B4)  Recent Iron Reduction in  This Music Surface (CT)	
Iron Deposits (B5)  Thin Muck Surface (C7)  Other (Fynicin in Remark)	
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 No x Depth (inches)	
Water Table Present? Yes No x 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:
Remarks:	
Adjacent to stream CS13.	

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:)				OBL species55 x 1 =55
1. Cornus amomum	45	Yes	FACW	FACW species 50 x 2 = 100
2				FAC species0 x 3 =0
3				FACU species0 x 4 =0
4.				UPL species 0 x 5 = 0
5.				Column Totals: 105 (A) 155 (B)
6.				Prevalence Index = B/A = 1.48
7.				Hydrophytic Vegetation Indicators:
	45	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5' )		•		X 2 - Dominance Test is >50%
1. Carex lacustris	55	Yes	OBL	X 3 - Prevalence Index is ≤3.0 <sup>1</sup>
Cornus amomum	5	No	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. 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.
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
	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				height.
2				Hydrophytic
3.	-			Vegetation
4				Present?
		=Total Cover		
Remarks: (Include photo numbers here or on a sepa	rate sheet.)			

Sampling Point: CPA-6 Wet

SOIL Sampling Point CPA-6 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		
0-6	10YR 2/1	96	10YR 3/6	4	С	PL/M	Loamy/Clayey	Prominent redox concentrations		
6-16	10YR 5/1	75	10YR 3/6	_20_	C	M	Loamy/Clayey	Prominent redox concentrations		
			10YR 4/1	5	D	М				
							_			
							_			
1- 0.0							2			
'Type: C=Co	oncentration, D=Deple	etion, RN	/I=Reduced Matrix, M	IS=Masi	ked Sand	d Grains.		PL=Pore Lining, M=Matrix.  or Problematic Hydric Soils <sup>3</sup> :		
Histosol			Polyvalue Belov	w Surfa	ce (S8) (	LRR R.		uck (A10) (LRR K, L, MLRA 149B)		
	oipedon (A2)		MLRA 149B)		( - / (	,		rairie Redox (A16) ( <b>LRR K, L, R</b> )		
Black Hi	stic (A3)		Thin Dark Surfa	ace (S9)	(LRR R	, MLRA 1	<b>149B</b> ) 5 cm Μι	ucky Peat or Peat (S3) ( <b>LRR K, L, R</b> )		
Hydroge	n Sulfide (A4)		High Chroma S	ands (S	611) ( <b>LR</b> I	R K, L)	Polyvalu	ie Below Surface (S8) ( <b>LRR K, L</b> )		
	I Layers (A5)		Loamy Mucky N			RK, L)		rk Surface (S9) ( <b>LRR K, L</b> )		
	Below Dark Surface	(A11)	Loamy Gleyed		F2)			nganese Masses (F12) ( <b>LRR K, L, R</b> )		
	ark Surface (A12)		X Depleted Matrix		.0)			nt Floodplain Soils (F19) (MLRA 149B)		
	lucky Mineral (S1) leyed Matrix (S4)		X Redox Dark Su Depleted Dark		-			podic (TA6) ( <b>MLRA 144A, 145, 149B</b> )		
	edox (S5)		Redox Depress				Red Parent Material (F21)  Very Shallow Dark Surface (F22)			
	Matrix (S6)		Marl (F10) (LRI		3)			Explain in Remarks)		
	face (S7)			, -,			(_	,		
3Indicators of	F budronbutio vogotati	on and w	vatland budralagu mu	at ba an	acent	alaaa diat	urbed or problematic.			
	_ayer (if observed):	on and w	vetiand hydrology mu	ist be pi	esent, u	iless dist	urbed of problematic.			
Type:	none	Э								
Depth (ir	nches):						Hydric Soil Prese	nt? Yes X No		
Remarks:										
	m is revised from Noı 2015 Errata. (http://w							CS Field Indicators of Hydric Soils,		
version 7.0,	2015 Effata. (fittp://w	ww.nics.	.usua.gov/internet/F3	ב_טטנ	JUIVIEINI	S/IIICS 14.	2p2_051293.docx)			



Wetland CPA-6- View facing north



Wetland CPA-6- Soils

Phase 1

## SITE PHOTOGRAPHS

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

Project/Site: CHPE	City/County: Putnam/Washington Sampling Date: 4/5/22
Applicant/Owner: TDI	State: NY Sampling Point: CPA-6 Upl
Investigator(s): N. Frazer & J. Greaves	Section, Township, Range:
	relief (concave, convex, none): none Slope %: 0
Subregion (LRR or MLRA): LRR R Lat: 43-43-19.26N	Long: 73-25-7.04W Datum:
Soil Map Unit Name: Saco silt loam (Sa)	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	ipling 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.) 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 (I	· · · · · · · · · · · · · · · · · · ·
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)	
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:
Develop	
Remarks:	

Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
5	Yes	FACW	
- <u></u> 5	Yes		Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)
2	No	FACU	
2	No	FAC	Total Number of Dominant Species Across All Strata: 4 (B)
			Percent of Dominant Species That Are OBL, FACW, or FAC: 50.0% (A/B)
			Prevalence Index worksheet:
14	=Total Cover		Total % Cover of: Multiply by:
)			OBL species 0 x 1 = 0
5	No	FACU	FACW species 5 x 2 = 10
25	Yes	FAC	FAC species 32 x 3 = 96
			FACU species 110 x 4 = 440
			UPL species 0 x 5 = 0
			Column Totals: 147 (A) 546 (B
			Prevalence Index = B/A = 3.71
<del></del>			Hydrophytic Vegetation Indicators:
30	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
			2 - Dominance Test is >50%
5	No	FAC	3 - Prevalence Index is ≤3.0 <sup>1</sup>
			4 - Morphological Adaptations <sup>1</sup> (Provide supportin
			data in Remarks or on a separate sheet)
			Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
			<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, regardless
103	=Total Cover		of size, and woody plants less than 3.28 ft tall.
)			Woody vines – All woody vines greater than 3.28 ft ir
,			
,		<u> </u>	height.
<u> </u>			Hydrophytic
	% Cover  5  2  2  14  )  5  25  30  5  90  8	% Cover         Species?           5         Yes           2         No           2         No           14         =Total Cover           5         No           25         Yes           30         =Total Cover           5         No           90         Yes           8         No	% Cover         Species?         Status           5         Yes         FACW           5         Yes         FACU           2         No         FAC           14         =Total Cover           5         No         FAC           25         Yes         FAC           30         =Total Cover           5         No         FAC           90         Yes         FACU           8         No         FACU

SOIL Sampling Point CPA-6 Upl

Depth	Matrix	o trie de		x Featur		ator or co	onfirm the absence of	i indicators.)
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-11	10YR 2/1	100					Loamy/Clayey	
11-16	10YR 4/2	80	10YR 5/6		<u>C</u>	_M_	Loamy/Clayey	Prominent redox concentrations
							<del></del> -	
							<del></del> -	
	oncentration, D=Deple	etion, RN	1=Reduced Matrix, N	1S=Mas	ked Sand	d Grains.		L=Pore Lining, M=Matrix.
Hydric Soil   Histosol			Polyvalue Belo	w Surfa	ce (S8) (	I RR R		or Problematic Hydric Soils <sup>3</sup> : ck (A10) (LRR K, L, MLRA 149B)
	pipedon (A2)		MLRA 149B		(00) (	LIXIX IX,		rairie Redox (A16) (LRR K, L, R)
Black Hi			Thin Dark Surf	•	) (LRR R	, MLRA 1		cky Peat or Peat (S3) (LRR K, L, R)
	n Sulfide (A4)		High Chroma S				· —	e Below Surface (S8) ( <b>LRR K, L</b> )
	l Layers (A5)		Loamy Mucky					k Surface (S9) ( <b>LRR K, L</b> )
	d Below Dark Surface	(A11)	Loamy Gleyed			, ,		iganese Masses (F12) ( <b>LRR K, L, R</b> )
	ark Surface (A12)	, ,	Depleted Matri		,			nt Floodplain Soils (F19) ( <b>MLRA 149B</b> )
Sandy M	lucky Mineral (S1)		Redox Dark Su	urface (F	<sup>-</sup> 6)		Mesic Sp	podic (TA6) ( <b>MLRA 144A, 145, 149B</b> )
Sandy G	leyed Matrix (S4)		Depleted Dark	Surface	(F7)		Red Pare	ent Material (F21)
Sandy R	ledox (S5)		Redox Depress	sions (F	8)		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 o	f hydrophytic vegetati	on and w	vetland hydrology mu	ust be pr	esent, u	nless dist	urbed or problematic.	
	_ayer (if observed):							
Type:	none	9					Livelai e Ceil Bassea	ato Van Na V
Depth (in							Hydric Soil Preser	nt? Yes No _X
								CS Field Indicators of Hydric Soils,
Version 7.0,	2015 Errata. (http://w	ww.nrcs.	usda.gov/Internet/F	SE_DOC	CUMENT	S/nrcs14	2p2_051293.docx)	



**Upland CPA-6- View facing east** 



**Upland CPA-6- Soils** 

Phase 1

## **SITE PHOTOGRAPHS**

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

Project/Site: CHPE	City/County: Putnam / Washington Sampling Date: 10/12/21
Applicant/Owner: TDI	State: NY Sampling Point: WET CQ-3
Investigator(s): C. Scrivner, J. Greaves	Section, Township, Range:
	relief (concave, convex, none): Concave Slope %: 3
Subregion (LRR or MLRA): LRR R Lat: 43-43-20.87N	Long: 73-25-11.38W Datum: WGS 84
Soil Map Unit Name: VeD - Vergennes silty clay loam, 12 to 20 percent slop	<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 Hydrology naturally problema	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 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 CQ-3
Remarks: (Explain alternative procedures here or in a separate report.) Palustrine Emergent Marsh. Edinger classification: Shallow Emergent 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)
Surface Water (A1) 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 (	
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)	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):	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.		<u> </u>		Total Number of Dominant Species Across All Strata:(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 20 x 1 = 20
1				FACW species 80 x 2 = 160
2		. <del></del>		FAC species 0 x 3 = 0
3				FACU species 0 x 4 = 0
4.				UPL species0 x 5 =0
5.				Column Totals: 100 (A) 180 (B)
6.				Prevalence Index = B/A =1.80
7.				Hydrophytic Vegetation Indicators:
		=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5' )		-		X 2 - Dominance Test is >50%
Phalaris arundinacea	80	Yes	FACW	X 3 - Prevalence Index is ≤3.0 <sup>1</sup>
2. Typha angustifolia	20	Yes	OBL	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)
<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				Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
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				height.
2.		· ——		Hydrophytic
3				Vegetation
4		· ——		Present?
		=Total Cover		
Remarks: (Include photo numbers here or on a separa	ate sheet.)			

Sampling Point: WET CQ-3

**SOIL** Sampling Point: WET CQ-3

		the de				tor or co	nfirm the absence of ind	licators.)	
Depth	Matrix	0/		x Featur		12	Tautuma	Damada	
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks	
0-5	2.5Y 3/1	80	10YR 4/4	20	<u>C</u>	M	Loamy/Clayey	Prominent redox concentrations	
5-16	10YR 4/1	85	10YR 4/4	15	С	M	Loamy/Clayey	Distinct redox concentrations	
			-						
	ncentration, D=Deple	tion, RM	=Reduced Matrix, M	S=Mask	ed Sand	Grains.		Pore Lining, M=Matrix.	
Hydric Soil Ir					(0.5) (1			Problematic Hydric Soils <sup>3</sup> :	
Histosol (			Polyvalue Belo		ce (S8) ( <b>I</b>	_RR R,		(A10) (LRR K, L, MLRA 149B)	
Black His	pedon (A2)		MLRA 149B Thin Dark Surfa	,	(I RR R	MI RA 1		ie Redox (A16) ( <b>LRR K, L, R</b> )  / Peat or Peat (S3) ( <b>LRR K, L, R</b> )	
	Sulfide (A4)		High Chroma S					Below Surface (S8) (LRR K, L)	
	Layers (A5)		Loamy Mucky I					Surface (S9) (LRR K, L)	
X Depleted	Below Dark Surface	(A11)	Loamy Gleyed				Iron-Manganese Masses (F12) (LRR K, L, R)		
Thick Dar	rk Surface (A12)		X Depleted Matrix	x (F3)			Piedmont Floodplain Soils (F19) (MLRA 149B)		
	ucky Mineral (S1)		X Redox Dark Su					lic (TA6) ( <b>MLRA 144A, 145, 149B</b> )	
	eyed Matrix (S4)		Depleted Dark					Material (F21)	
Sandy Re			? Redox Depress		3)			w Dark Surface (F22)	
Dark Surf	Matrix (S6)		Marl (F10) ( <b>LR</b>	K K, L)			Other (Expl	ain in Remarks)	
Dark Guil	acc (Or)								
<sup>3</sup> Indicators of	hydrophytic vegetatic	on and w	etland hydrology mus	st be pre	esent, unl	ess distu	rbed or problematic.		
Restrictive L	ayer (if observed):								
Type:									
Depth (in	ches):						Hydric Soil Present?	Yes X No	
Remarks:							•		



Wetland CQ-3 View facing west/northwest



Wetland CQ-3 Soils

# Phase 1

## **SITE PHOTOGRAPHS**

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

Project/Site: CHPE	City/County: Putnam / Washington Sampling Date: 10/12/21
Applicant/Owner: TDI	State: NY Sampling Point: WET CQ-6
Investigator(s): C. Scrivner, J. Greaves	Section, Township, Range:
	al relief (concave, convex, none): Concave Slope %: 1
Subregion (LRR or MLRA): LRR R Lat: 43-43-22.21N	Long: 73-25-17.30W Datum: WGS 84
Soil Map Unit Name: VeB - Vergennes silty clay loam, 3 to 8 percent slope	
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 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 CQ-6
Remarks: (Explain alternative procedures here or in a separate report.) Palustrine Emergent Marsh. Edinger classification: Purple Loosestrife Mar	rsh.
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)  X Oxidized Rhizospheres	
Drift Deposits (B3) Presence of Reduced I	
Algal Mat or Crust (B4) Recent Iron Reduction i	<del></del>
Iron Deposits (B5) Thin Muck Surface (C7)	· · · · · · · · · · · · · · · · · · ·
Inundation Visible on Aerial Imagery (B7) Other (Explain in Rema	
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 No X Depth (inches)	.):
Saturation Present? Yes No X Depth (inches)	S): Wetland Hydrology Present? Yes X No
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pro	evious 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.		·		Total Number of Dominant Species Across All Strata: (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 47 x 1 = 47
1				FACW species 33 x 2 = 66
2.				FAC species 0 x 3 = 0
3				FACU species10 x 4 =40
4.				UPL species10 x 5 =50
5				Column Totals: 100 (A) 203 (B)
6.				Prevalence Index = B/A = 2.03
7.		· ·		Hydrophytic Vegetation Indicators:
		=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5' )				X 2 - Dominance Test is >50%
1. Lythrum salicaria	30	Yes	OBL	X 3 - Prevalence Index is ≤3.0 <sup>1</sup>
Phalaris arundinacea	25	Yes	FACW	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
3. Juncus effusus	15	No	OBL	data in Remarks or on a separate sheet)
Symphyotrichum ericoides	10	No	FACU	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5. Pastinaca sativa	10	No	UPL	<del>-</del>
6. Symphyotrichum novae-angliae	8	No	FACW	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
7. Scirpus atrovirens	2	No	OBL	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.				
	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				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: WET CQ-6

SOIL Sampling Point: WET CQ-6

	. `	o the de				tor or co	onfirm the absence of	indicators.)		
Depth	Matrix	0/		Feature		Loc <sup>2</sup>	Touture	Domorko		
(inches)	Color (moist)	<u>%</u>	Color (moist)		Type <sup>1</sup>		Texture	Remarks		
0-6	10YR 4/2	98	10YR 3/6	2	<u>C</u>	PL_	Mucky Loam/Clay	Prominent redox concentrations		
6-16	10YR 4/1	55	10YR 4/4	35	<u>C</u>	M	Mucky Loam/Clay	Distinct redox concentrations		
			10YR 3/1	10	D	M				
								_		
1			De les IMaria M				21	L. Boot Living M. Marti		
Hydric Soil I	oncentration, D=Deple	etion, Rivi	=Reduced Matrix, MS	5=IVIask€	ea Sana	Grains.		L=Pore Lining, M=Matrix.  or Problematic Hydric Soils <sup>3</sup> :		
Histosol			? Polyvalue Belov	v Surfac	ce (S8) ( <b>L</b>	RR R.		ick (A10) (LRR K, L, MLRA 149B)		
	oipedon (A2)		MLRA 149B)		( ) (	,		rairie Redox (A16) ( <b>LRR K, L, R</b> )		
Black Hi	stic (A3)		Thin Dark Surfa	ice (S9)	(LRR R,	MLRA 1	<b>149B</b> ) 5 cm Mu	icky Peat or Peat (S3) (LRR K, L, R)		
Hydroge	n Sulfide (A4)		High Chroma S	ands (S	11) (LRF	R K, L)	Polyvalu	e Below Surface (S8) (LRR K, L)		
	d Layers (A5)		Loamy Mucky N			R K, L)		k Surface (S9) (LRR K, L)		
	Below Dark Surface	(A11)	Loamy Gleyed I		<del>-</del> 2)		Iron-Manganese Masses (F12) (LRR K, L, R)			
	ark Surface (A12)		X Depleted Matrix		<b>C</b> )			ont Floodplain Soils (F19) (MLRA 149B)		
	lucky Mineral (S1) leyed Matrix (S4)		Redox Dark Su Depleted Dark S					podic (TA6) ( <b>MLRA 144A, 145, 149B</b> ) ent Material (F21)		
	edox (S5)		Redox Depress					allow Dark Surface (F22)		
	Matrix (S6)		Marl (F10) (LRF	•	,			xplain in Remarks)		
Dark Su	rface (S7)									
	f hydrophytic vegetation	on and w	etland hydrology mus	t be pre	sent, unl	ess distu	irbed or problematic.			
	_ayer (if observed):									
Type:			<del></del>							
Depth (ir	nches):						Hydric Soil Preser	nt? Yes X No		
Remarks:										



Wetland CQ-6 View facing west



Wetland CQ-6 Soils

Phase 1

## **SITE PHOTOGRAPHS**

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

Project/Site: CHPE	City/County: Putnam / Washington Sampling Date: 10/12/21	
Applicant/Owner: TDI	State: NY Sampling Point: UPL	
Investigator(s): C. Scrivner, J. Greaves	Section, Township, Range:	
·	al relief (concave, convex, none): None Slope %: 0	
Subregion (LRR or MLRA): LRR R Lat: 43-43-20.82N	Long: 73-25-12.07W Datum: WGS 84	
Soil Map Unit Name: VeD - Vergennes silty clay loam, 12 to 20 percent s		
Are climatic / hydrologic conditions on the site typical for this time of year?	· ·	
Are Vegetation, Soil, or Hydrologysignificantly dist		
Are Vegetation, Soil, or Hydrology naturally problem	matic? (If needed, explain any answers in Remarks.)	
SUMMARY OF FINDINGS – Attach site map showing sa	ampling 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. Upland data point for both Wetland data points CQ-3 a	nd CQ-6.	
L 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		
High Water Table (A2)  Water-Stained Leaves Aquatic Fauna (B13)	Moss Trim Lines (B16)	
Saturation (A3)  Marl Deposits (B15)	Dry-Season Water Table (C2)	
Water Marks (B1)  Hydrogen Sulfide Odo		
	s on Living Roots (C3)  Saturation Visible on Aerial Imagery (C9)	
Drift Deposits (B3)  Presence of Reduced		
Algal Mat or Crust (B4)  Recent Iron Reduction	• , ,	
Iron Deposits (B5)  Thin Muck Surface (C	<del></del>	
Inundation Visible on Aerial Imagery (B7)  Other (Explain in Rem	<u> </u>	
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)	
Field Observations:		
Surface Water Present? Yes No _X Depth (inches	e)·	
Water Table Present? Yes No X Depth (inche	·	
Saturation Present? Yes No X Depth (inche		
(includes capillary fringe)		
Describe Recorded Data (stream gauge, monitoring well, aerial photos, p	previous inspections), if available:	
	,	
Remarks:		

**VEGETATION** – Use scientific names of plants. Sampling Point: UPL Absolute Dominant Indicator <u>Tree Stratum</u> (Plot size: 30') Species? Status % Cover **Dominance Test worksheet:** 1. **Number of Dominant Species** That Are OBL, FACW, or FAC: 1 (A) 3. **Total Number of Dominant** 4. Species Across All Strata: 2 (B) 5. Percent of Dominant Species That Are OBL, FACW, or FAC: 6. 50.0% (A/B) Prevalence Index worksheet: =Total Cover Total % Cover of: Multiply by: Sapling/Shrub Stratum (Plot size: 15' OBL species x 1 = x 2 = **FACW** species x 3 = 2. FAC species 70 210 **FACU** species 3. 10 x 4 = UPL species 20 x 5 = 100 Column Totals: 350 3.50 6. Prevalence Index = B/A = Hydrophytic Vegetation Indicators: 7. =Total Cover 1 - Rapid Test for Hydrophytic Vegetation Herb Stratum (Plot size: 5') 2 - Dominance Test is >50% Setaria pumila FAC 3 - Prevalence Index is ≤3.01 1. 20 4 - Morphological Adaptations<sup>1</sup> (Provide supporting 2. Pastinaca sativa Yes UPL data in Remarks or on a separate sheet) 10 Toxicodendron radicans FAC 3. No 5 Problematic Hydrophytic Vegetation<sup>1</sup> (Explain) 4. Taraxacum officinale No **FACU** Plantago lanceolata 5 **FACU** 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. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. 11. Herb - All herbaceous (non-woody) plants, regardless 100 =Total Cover of size, and woody plants less than 3.28 ft tall. 30' Woody Vine Stratum (Plot size: Woody vines - All woody vines greater than 3.28 ft in height. 1. Hydrophytic Vegetation Present? Yes No X =Total Cover Remarks: (Include photo numbers here or on a separate sheet.)

SOIL Sampling Point: UPL Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Redox Features Loc2 Color (moist) Color (moist) (inches) Texture Remarks 10YR 2/1 0-16 100 Sandy <sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. <sup>2</sup>Location: PL=Pore Lining, M=Matrix. **Hydric Soil Indicators:** Indicators for Problematic Hydric Soils<sup>3</sup>: 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) Piedmont Floodplain Soils (F19) (MLRA 149B) Thick Dark Surface (A12) Depleted Matrix (F3) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Mucky Mineral (S1) Redox Dark Surface (F6) Sandy Gleyed Matrix (S4) Depleted Dark Surface (F7) Red Parent Material (F21) Sandy Redox (S5) Redox Depressions (F8) Very Shallow Dark Surface (F22) Stripped Matrix (S6) Marl (F10) (LRR K, L) 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: Depth (inches): **Hydric Soil Present?** No X Yes Remarks:



Upland CQ-3 & CQ-6 View facing west



Upland CQ-3 & CQ-6 Soils

Phase 1

## **SITE PHOTOGRAPHS**

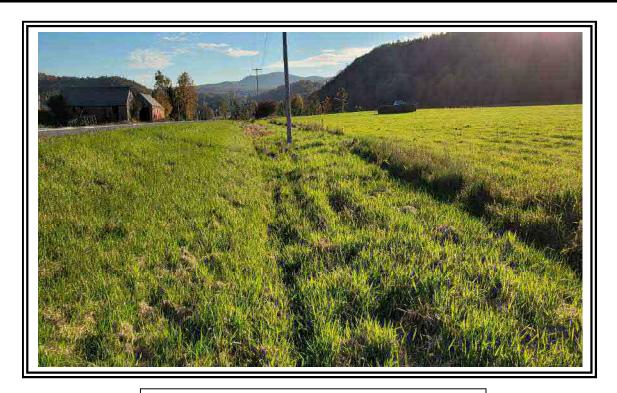
#### WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: CHPE	City/County: Putnam / Washington Sampling Date: 10/12/21
Applicant/Owner: TDI	State: NY Sampling Point: WET CR-3
Investigator(s): J. Greaves, C. Scrivner	Section, Township, Range:
	relief (concave, convex, none): Concave Slope %: 1
Subregion (LRR or MLRA): LRR R Lat: 43-43-23.09N	Long: 73-25-23.03W Datum: WGS 84
Soil Map Unit Name: KbA - Kingsbury silty clay, 0 to 2 percent slopes	NWI classification: PEM2
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>
SUMMARY OF FINDINGS – Attach site map showing sam	
Von V. No.	T
Hydrophytic Vegetation Present? Yes X No Hydric Soil Present? Yes X No	Is the Sampled Area within a Wetland? Yes X No
Wetland Hydrology Present? Yes X No	If yes, optional Wetland Site ID: Near Flag CR-3
Remarks: (Explain alternative procedures here or in a separate report.)	il yes, optional victiand one ib.
Palustrine Emergent Marsh. Edinger classification: Shallow Emergent Mars	ill allu Ciuplanu/r ieluciup. Tilis is area consists oi existing nayhold.
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)
X High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)
X Saturation (A3) Marl Deposits (B15)	X Dry-Season Water Table (C2)
Water Marks (B1) Hydrogen Sulfide Odor (	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	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):	: <u> </u>
Water Table Present? Yes X No Depth (inches):	3
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:	

	Abaaluta	Dominant	Indicator	
Tree Stratum (Plot size:30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
				Number of Dominant Species
				That Are OBL, FACW, or FAC: (A)
				Total Number of Dominant
				Species Across All Strata: 1 (B)
				Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (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 100 x 2 = 200
				FAC species 0 x 3 = 0
				FACU species 0 x 4 = 0
				UPL species 0 x 5 = 0
				Column Totals: 100 (A) 200 (E
				Prevalence Index = B/A = 2.00
				Hydrophytic Vegetation Indicators:
		=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
erb Stratum (Plot size: 5' )				X 2 - Dominance Test is >50%
Phalaris arundinacea	100	Yes	FACW	X 3 - Prevalence Index is ≤3.0 <sup>1</sup>
				4 - Morphological Adaptations <sup>1</sup> (Provide supporting
				data in Remarks or on a separate sheet)
				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
_				<u> </u>
·				<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
1.				and greater than or equal to 3.28 ft (1 m) tall.
2.				Hart All had a constant a state of a constant
	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')				West and a second secon
				<b>Woody vines</b> – All woody vines greater than 3.28 ft in height.
				Hydrophytic
				Vegetation Present? Yes X No
		=Total Cover		Fresent: res_ANO
		= Lotal Cover		

SOIL Sampling Point: WET CR-3

		the dep				tor or co	onfirm the absence of ind	licators.)
Depth	Matrix			k Feature		. 2		
(inches)	Color (moist)	%	Color (moist)	<u>%</u>	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-2	10YR 3/2	100					Loamy/Clayey	
2-12	10YR 4/2	85	10YR 4/6	15	<u>C</u>	M	Mucky Loam/Clay	Prominent redox concentrations
12-16	10YR 4/1	60	10YR 5/8	40	С	M	Mucky Loam/Clay	Prominent redox concentrations
<sup>1</sup> Type: C=Cor	ncentration, D=Deple	tion RM	-Reduced Matrix M	S-Mack	bac2 be	Grains	<sup>2</sup> l ocation: Pl –F	Pore Lining, M=Matrix.
Hydric Soil Ir		tion, raw	=reduced Matrix, Mi	J-Mask	ca Garia	Oranio.		Problematic Hydric Soils <sup>3</sup> :
Histosol (			Polyvalue Belov	w Surfac	e (S8) ( <b>L</b>	RR R,		(A10) (LRR K, L, MLRA 149B)
	pedon (A2)		MLRA 149B)		(/(	,		ie Redox (A16) (LRR K, L, R)
Black His			Thin Dark Surfa	ace (S9)	(LRR R,	MLRA 1		Peat or Peat (S3) (LRR K, L, R)
Hydrogen	Sulfide (A4)		High Chroma S	ands (S	11) (LRF	R K, L)	Polyvalue B	Below Surface (S8) (LRR K, L)
Stratified	Layers (A5)		Loamy Mucky N	Mineral (	F1) ( <b>LRF</b>	R K, L)	Thin Dark S	Surface (S9) (LRR K, L)
X Depleted	Below Dark Surface	(A11)	Loamy Gleyed	Matrix (F	<del>-</del> 2)		Iron-Manga	nese Masses (F12) (LRR K, L, R)
Thick Dar	k Surface (A12)		X Depleted Matrix	(F3)			Piedmont F	loodplain Soils (F19) (MLRA 149B)
Sandy Mu	ucky Mineral (S1)		Redox Dark Su	rface (F	6)		Mesic Spod	lic (TA6) ( <b>MLRA 144A, 145, 149B</b> )
Sandy Gle	eyed Matrix (S4)		Depleted Dark	Surface	(F7)		Red Parent	Material (F21)
Sandy Re			? Redox Depress		3)			w Dark Surface (F22)
	Matrix (S6)		Marl (F10) (LRI	R K, L)			Other (Expl	ain in Remarks)
Dark Surf	ace (S7)							
<sup>3</sup> Indicators of	hydrophytic vegetatio	on and we	etland hydrology mus	st be pre	sent, unl	ess distu	irbed or problematic.	
Restrictive La	ayer (if observed):							
Type:								
Depth (inc	ches):						Hydric Soil Present?	Yes X No
Remarks:								



Wetland CR-3 View facing southwest



Wetland CR-3 Soils

# Phase 1

## SITE PHOTOGRAPHS

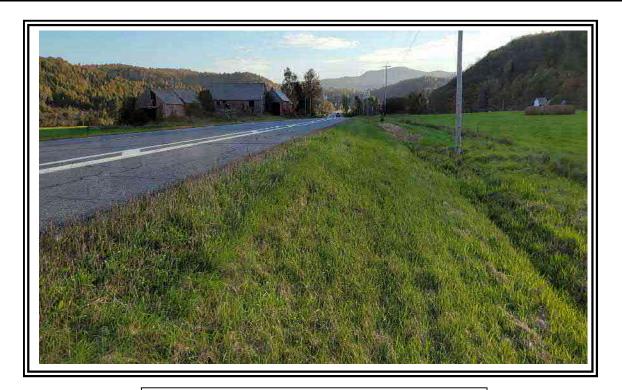
#### WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: CHPE	City/County: Putnam / Washington Sampling Date: 10/12/21					
Applicant/Owner: TDI	State: NY Sampling Point: UPL CR-3					
Investigator(s): J. Greaves, C. Scrivner	Section, Township, Range:					
Landform (hillside, terrace, etc.): Hillslope Local	relief (concave, convex, none): Concave Slope %: 35					
Subregion (LRR or MLRA): LRR R Lat: 43-43-23.00N	Long: 73-25-22.87W Datum: WGS 84					
Soil Map Unit Name: KbA - Kingsbury silty clay, 0 to 2 percent slopes	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						
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 X No	within a Wetland? Yes No X					
Wetland Hydrology Present? Yes No X	If yes, optional Wetland Site ID:					
Mowed roadside and Cropland/Fieldcrop.						
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 (F	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	on (C4) Stunted or Stressed Plants (D1)					
Algal Mat or Crust (B4)Recent Iron Reduction in						
Iron Deposits (B5) Thin Muck Surface (C7)	· · · · · ·					
Inundation Visible on Aerial Imagery (B7)Other (Explain in Remark						
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 No X Depth (inches):	:   Wetland Hydrology Present? Yes No _X					
(includes capillary fringe)	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -					
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	vious inspections), ii available:					
Remarks:						
Tonano.						

	ints.			Sampling Point: UPL CR-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)
				Total Number of Dominant
				Species Across All Strata: 1 (B)
				Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (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 95 x 2 = 190
-				FAC species 0 x3 = 0
<u> </u>				FACU species 0 x 4 = 0
				UPL species 5 x 5 = 25
·				Column Totals: 100 (A) 215 (B
· <u></u>				Prevalence Index = B/A = 2.15
·				Hydrophytic Vegetation Indicators:
		=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
erb Stratum (Plot size: 5' )				X 2 - Dominance Test is >50%
. Phalaris arundinacea	95	Yes	FACW	3 - Prevalence Index is ≤3.0 <sup>1</sup>
. Vicia cracca	5	No	UPL	4 - Morphological Adaptations (Provide supporting
i				data in Remarks or on a separate sheet)
				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
i.				<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.
0.				
4				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 0.25 it (1 iii) tail.
Z	100	Total Cover		Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
(Plateins 20)	100	=Total Cover		of size, and woody plants less than 3.26 it tall.
Voody Vine Stratum (Plot size: 30' )				Woody vines – All woody vines greater than 3.28 ft in
·				height.
•				Hydrophytic
				Vegetation
3.				Present? Yes X No

SOIL Sampling Point: UPL CR-3

		the dep				tor or co	onfirm the absence of indicators.)	
Depth	Matrix			x Feature		. 2		
(inches)	Color (moist)	%	Color (moist)	<u>%</u>	Type <sup>1</sup>	Loc <sup>2</sup>	Texture Remarks	
0-2	10YR 2/1	100					Sandy	
2-10	10YR 3/2	100					Sandy	
10-16	10YR 4/2	90	10YR 5/8	10	<u>C</u>	<u>M</u>	Mucky Loam/Clay Prominent redox concentration	ns
							<u> </u>	
1			Dadward Matrix M				2) continue Di Dave Linius M Matrix	
Hydric Soil Ir	ncentration, D=Deple	tion, Rivi	=Reduced Matrix, M	S=IVIASKE	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)	1
	pedon (A2)		MLRA 149B		, (33) (2		Coast Prairie Redox (A16) (LRR K, L, R)	
Black His			Thin Dark Surfa	,	(LRR R	MLRA 1		R)
	Sulfide (A4)		High Chroma S				Polyvalue Below Surface (S8) (LRR K, L)	,
Stratified	Layers (A5)		Loamy Mucky I	Mineral (	F1) (LRF	R K, L)	Thin Dark Surface (S9) (LRR K, L)	
Depleted	Below Dark Surface	(A11)	Loamy Gleyed	Matrix (F	<del>-</del> 2)		Iron-Manganese Masses (F12) (LRR K, L,	R)
Thick Dar	k Surface (A12)		X Depleted Matrix	к (F3)			Piedmont Floodplain Soils (F19) (MLRA 14	<b>19B</b> )
Sandy Mu	ucky Mineral (S1)		Redox Dark Su	ırface (F	6)		Mesic Spodic (TA6) (MLRA 144A, 145, 14	9B)
Sandy Gle	eyed Matrix (S4)		Depleted Dark	Surface	(F7)		Red Parent Material (F21)	
Sandy Re			Redox Depress		3)		Very Shallow Dark Surface (F22)	
	Matrix (S6)		Marl (F10) ( <b>LR</b>	R K, L)			Other (Explain in Remarks)	
Dark Surf	face (S7)							
<sup>3</sup> Indicators of	hydrophytic vegetatic	on and we	etland hydrology mus	st be pre	sent, unl	ess distu	urbed or problematic.	
	ayer (if observed):							
Type:								
Depth (inc	ches):						Hydric Soil Present? Yes X No	
Remarks:								



**Upland CR-3 View facing southwest** 



**Upland CR-3 Soils** 

Phase 1

## **SITE PHOTOGRAPHS**

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

Project/Site: CHPE	City/County: Putnam / Washington Sampling Date: 10/13/21
Applicant/Owner: TDI	State: NY Sampling Point: WET CR-8
Investigator(s): J. Greaves, C. Scrivner	Section, Township, Range:
·	relief (concave, convex, none): Concave Slope %: 3
Subregion (LRR or MLRA): LRR R Lat: 43-43-17.47N	Long: 73-25-26.74W Datum: WGS 84
Soil Map Unit Name: VeB - Vergennes silty clay loam, 3 to 8 percent slopes	<del></del>
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 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 No	If yes, optional Wetland Site ID: Near Flag CR-8
Palustrine Emergent Marsh - Cattail Marsh. Edinger classification: Shallow Editch and unmowed cattail marsh.	mergent Marsn. This wetland consists of mowed field areas, 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	· · · · · · · · · · · · · · · · · · ·
X High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)
X Saturation (A3) Marl Deposits (B15)	X Dry-Season Water Table (C2)
Water Marks (B1) Hydrogen Sulfide Odor (C	
Sediment Deposits (B2)  X Oxidized Rhizospheres o	<u> </u>
Drift Deposits (B3) Presence of Reduced Iro	
Algal Mat or Crust (B4) Recent Iron Reduction in Iron Deposits (B5) X Thin Muck Surface (C7)	
Iron Deposits (B5)  Inundation Visible on Aerial Imagery (B7)  X Thin Muck Surface (C7) Other (Explain in Remark	Shallow Aquitard (D3)  Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8)	<u> </u>
	X FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No X Depth (inches):  Water Table 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:
besombe recorded bata (stream gauge, monitoring well, acrial priotos, pre-	vious inspections), il availlable.
Domovko	
Remarks:	
	l l

<u>Tree Stratum</u> (Plot size: 30' )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1.	70 00 00.	ороско.	Olalus	
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: 100.0% (A/B)
7.				Prevalence Index worksheet:
		=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15' )				OBL species 100 x 1 = 100
1				FACW species 0 x 2 = 0
2				FAC species 0 x 3 = 0
3				FACU species 0 x 4 = 0
4.				UPL species0 x 5 =0
5				Column Totals: 100 (A) 100 (B)
6.				Prevalence Index = B/A = 1.00
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	97	Yes	OBL	X 3 - Prevalence Index is ≤3.0 <sup>1</sup>
2. Lythrum salicaria	3	No	OBL	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.				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 and greater than or equal to 3.28 ft (1 m) tall.
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				height.
2				Hydrophytic
3				Vegetation
4				Present?
		=Total Cover		
Remarks: (Include photo numbers here or on a separa	ate sheet.)			

Sampling Point: WET CR-8

SOIL Sampling Point: WET CR-8

	ription: (Describe t	o the dep				or or co	onfirm the absence of i	indicators.)
Depth	Matrix			x Feature		2		
(inches)	Color (moist)	%	Color (moist)	<u>%</u>	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-1	2.5Y 3/2	100					Muck	
1-9	2.5Y 2.5/1	95	2.5Y 4/2	5	С	<u>M</u>	Muck	Faint redox concentrations
9-16	N 3/	88	10YR 4/6	10	С	M	Mucky Loam/Clay	Prominent redox concentrations
			10YR 5/6	2	<u>C</u>	PL		Prominent redox concentrations
1 <sub>Tumper</sub> C. Co			Doduced Metrix MS	C Mook		Crains	2l continue Di	L=Pore Lining, M=Matrix.
Hydric Soil I	ncentration, D=Deple	ellon, Rivi	=Reduced Mainx, Mi	5=IVIASK	eu Sanu	Grains.		or Problematic Hydric Soils <sup>3</sup> :
Histosol			Polyvalue Belov	w Surfac	ce (S8) ( <b>L</b>	.RR R,		ck (A10) ( <b>LRR K, L, MLRA 149B</b> )
X Histic Ep			MLRA 149B)		. , .			rairie Redox (A16) (LRR K, L, R)
X Black His			Thin Dark Surfa	ace (S9)	(LRR R,	MLRA		cky Peat or Peat (S3) (LRR K, L, R)
Hydrogei	n Sulfide (A4)		High Chroma S	ands (S	11) (LRR	k K, L)	Polyvalue	e Below Surface (S8) ( <b>LRR K, L</b> )
	Layers (A5)		Loamy Mucky N			R K, L)		k Surface (S9) (LRR K, L)
	Below Dark Surface	(A11)	Loamy Gleyed		<del>-</del> 2)			nganese Masses (F12) (LRR K, L, R)
	rk Surface (A12)		Depleted Matrix	. ,	۵)			at Floodplain Soils (F19) (MLRA 149B)
	ucky Mineral (S1)		Redox Dark Su					podic (TA6) (MLRA 144A, 145, 149B)
	leyed Matrix (S4)		Depleted Dark					ent Material (F21) allow Dark Surface (F22)
	edox (S5) Matrix (S6)		Redox Depress Marl (F10) (LRI		))			xplain in Remarks)
	face (S7)		- Warr (1 To) (Erri	· · · · · · · ·				Apidii ii Nomanoj
	1400 (01)							
	hydrophytic vegetati	on and w	etland hydrology mus	t be pre	sent, unl	ess distu	irbed or problematic.	
	ayer (if observed):							
Type:							II. Ida Odl Barra	Vo. V. N.
Depth (in							Hydric Soil Presen	t? Yes X No
Remarks:								



 $We tland \ CR-8 \ View \ facing \ southwest$ 



**Wetland CR-8 Soils** 

Phase 1

## SITE PHOTOGRAPHS

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

Project/Site: CHPE	City/County: Putnam / Washington Sampling Date: 10/13/21
Applicant/Owner: TDI	State: NY Sampling Point: UPL CR-8
Investigator(s): J. Greaves, C. Scrivner	Section, Township, Range:
	relief (concave, convex, none): Convex Slope %: 40
Subregion (LRR or MLRA): LRR R Lat: 43-43-17.48N	Long: 73-25-26.61W Datum: WGS 84
Soil Map Unit Name: VeB - Vergennes silty clay loam, 3 to 8 percent slopes	<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 Hydrologysignificantly disturb	
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  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 (	(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 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)	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 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:	

<u>Γree Stratum</u> (Plot size:)	Absolute % Cover	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: 1 (B)
i				Percent of Dominant Species
i				That Are OBL, FACW, or FAC: 100.0% (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 70 x 2 = 140
				FAC species 0 x 3 = 0
				FACU species 30 x 4 = 120
				UPL species 0 x 5 = 0
				Column Totals: 100 (A) 260 (E
				Prevalence Index = B/A = 2.60
				Hydrophytic Vegetation Indicators:
		=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
erb Stratum (Plot size: 5' )				X 2 - Dominance Test is >50%
. Phalaris arundinacea	70	Yes	FACW	3 - Prevalence Index is ≤3.0 <sup>1</sup>
. Taraxacum officinale	10	No	FACU	4 - Morphological Adaptations <sup>1</sup> (Provide supporti
. Cichorium intybus	10	No	FACU	data in Remarks or on a separate sheet)
. Lotus corniculatus	5	No	FACU	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
. Trifolium repens	5	No	FACU	_
i				<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 diame
				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
	100	=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 i
				height.
				Hydrophytic Vegetation
				Present? Yes X No
		=Total Cover		
		= I Ulai CUVEI		

SOIL Sampling Point: UPL CR-8

Profile Desc Depth	cription: (Describe to Matrix	o the dep		ment the x Feature		or or co	onfirm the absence of indicators.)	
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture Remarks	
0-7	10YR 2/2	100					Sandy	
7-16	10YR 4/2	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	e (S8) (L	RR R.	Indicators for Problematic Hydric Soils <sup>3</sup> : 2 cm Muck (A10) (LRR K, L, MLRA 149	<b>B</b> )
	pipedon (A2)		MLRA 149B		)C (OO) (E	,	Coast Prairie Redox (A16) (LRR K, L, R)	
Black Hi			Thin Dark Surfa	,	(LRR R,	MLRA 1		
— Hydroge	n Sulfide (A4)		High Chroma S	Sands (S	11) (LRR	R K, L)	Polyvalue Below Surface (S8) (LRR K, L	.)
Stratified	l Layers (A5)		Loamy Mucky I	Mineral (	F1) (LRF	R K, L)	Thin Dark Surface (S9) (LRR K, L)	
Depleted	d Below Dark Surface	(A11)	Loamy Gleyed	Matrix (F	<del>-</del> 2)		Iron-Manganese Masses (F12) (LRR K,	L, R)
	ark Surface (A12)		Depleted Matrix	. ,			Piedmont Floodplain Soils (F19) (MLRA	
	lucky Mineral (S1)		Redox Dark Su				Mesic Spodic (TA6) ( <b>MLRA 144A, 145,</b> 1	<b>49B</b> )
	sleyed 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)	
	rface (S7)		Wan (F10) (LK	K K, L)			Other (Explain in Remarks)	
Dark out	nace (O7)							
<sup>3</sup> Indicators of	f hydrophytic vegetation	on and we	etland hydrology mus	st be pre	sent, unl	ess distu	urbed or problematic.	
Restrictive I	_ayer (if observed):							
Туре:								
Depth (ir	nches):						Hydric Soil Present? Yes No	X
Remarks:								



**Upland CR-8 View facing southwest** 



**Upland CR-8 Soils** 

# Phase 1

## **SITE PHOTOGRAPHS**

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

Project/Site: CHPE	City/County: Putnam / Washington Sampling Date: 10/13/21					
Applicant/Owner: TDI	State: NY Sampling Point: WET CR-15					
Investigator(s): J. Greaves, C. Scrivner	Section, Township, Range:					
Landform (hillside, terrace, etc.): Hillslope Local	relief (concave, convex, none): Concave Slope %: 2					
Subregion (LRR or MLRA): LRR R Lat: 43-43-13.56N	Long: <u>73-25-29.67W</u> Datum: WGS 84					
Soil Map Unit Name: Sa - Saco silt loam	NWI classification: PEM2					
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.					
Voc. V. No.	The state Committee Access					
Hydrophytic Vegetation Present? Yes X No Hydric Soil Present? Yes X No	Is the Sampled Area within a Wetland? Yes X No					
Wetland Hydrology Present?  Yes X No	If yes, optional Wetland Site ID: Near Flag CR-15					
Remarks: (Explain alternative procedures here or in a separate report.) Palustrine Emergent Marsh. Edinger classification: Shallow Emergent Mars community.	sh. From wetland flag CR-12 south to the end of the wetland consists of this					
HYDROLOGY						
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)					
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)					
Surface Water (A1) Water-Stained Leaves (E						
High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)					
X Saturation (A3)Marl Deposits (B15)	Dry-Season Water Table (C2)					
Water Marks (B1) Hydrogen Sulfide Odor (						
Sediment Deposits (B2)  X Oxidized Rhizospheres of the control of	<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)	· · · · · ·					
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):	: <u> </u>					
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:						

EGETATION – Use scientific names of p		Dominant	Indicator				
ree Stratum (Plot size: 30' )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:			
. Salix nigra	3	Yes	OBL	Number of Dominant Species			
. Fraxinus pennsylvanica	2	Yes	FACW	That Are OBL, FACW, or FAC: 10	(A)		
. Ulmus americana	1	No	FACW	Total Number of Dominant			
				Species Across All Strata: 11	(B)		
·		<b>.</b>		Percent of Dominant Species			
				That Are OBL, FACW, or FAC: 90.9%	_(A/B		
·				Prevalence Index worksheet:			
	6	=Total Cover		Total % Cover of: Multiply by:			
apling/Shrub Stratum (Plot size:15'	)			OBL species 51 x 1 = 51			
. Cornus racemosa	2	Yes	FAC	FACW species 27 x 2 = 54			
. Lonicera morrowii	2	Yes	FACU	FAC species 24 x 3 = 72			
. Ulmus americana	2	Yes	FACW	FACU species12 x 4 =48			
. Cornus amomum	2	Yes	FACW	UPL species 0 x 5 = 0			
. <u> </u>				Column Totals: 114 (A) 225	(B		
<u> </u>				Prevalence Index = B/A = 1.97			
·				Hydrophytic Vegetation Indicators:			
	8	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation			
lerb Stratum (Plot size: 5' )				X 2 - Dominance Test is >50%			
. Agrostis gigantea	20	Yes	FACW	X 3 - Prevalence Index is ≤3.0 <sup>1</sup>			
. Carex vulpinoidea	15	Yes	OBL	4 - Morphological Adaptations <sup>1</sup> (Provide supporting			
. Typha angustifolia	15	Yes	OBL	data in Remarks or on a separate sheet)			
. Scirpus atrovirens	12	Yes	OBL	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)			
. Juncus tenuis	12	Yes	FAC	<ul> <li>Indicators of hydric soil and wetland hydrology must</li> </ul>			
. Cornus racemosa	10	No	FAC	present, unless disturbed or problematic.	nusti		
. Symphyotrichum ericoides	10	No	FACU	Definitions of Vegetation Strata:			
. Lythrum salicaria	6	No	OBL	Tree – Woody plants 3 in. (7.6 cm) or more in di	amet		
). <sup>_</sup>				at breast height (DBH), regardless of height.	amen		
0				Sapling/shrub – Woody plants less than 3 in. D	RH		
1				and greater than or equal to 3.28 ft (1 m) tall.	ы		
2				<b>Herb</b> – All herbaceous (non-woody) plants, rega	rdloc		
	100	=Total Cover		of size, and woody plants less than 3.28 ft tall.	liules		
Voody Vine Stratum (Plot size:30'	)	_		Woody vines – All woody vines greater than 3.2	00 ft in		
. <u> </u>				height.	.0 11 11		
. <u> </u>							
				Hydrophytic Vegetation			
i.				Present? Yes X No			
		=Total Cover					
Remarks: (Include photo numbers here or on a sep	arate sheet )	_ = Total Cover					
volumery. (morage buong transpers tiere of our a seb	araic 31166i.)						

SOIL Sampling Point: WET CR-15

	ription: (Describe t	o the dep				or or co	onfirm the absence of	indicators.)	
Depth	Matrix			x Featur		2			
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks	
0-8	2.5Y 3/1	75	10YR 4/6	10	<u>C</u>	<u>M</u>	Loamy/Clayey	Prominent redox concentrations	
			10YR 5/8	5	<u> </u>	PL		Prominent redox concentrations	
			10YR 5/4	10	<u> </u>	M		Prominent redox concentrations	
8-16	10GY 4/1	45	10YR 5/8	40	С	M	Loamy/Clayey	Prominent redox concentrations	
			10YR 5/4	10	<u>C</u>	M		Prominent redox concentrations	
			10YR 4/3	5	С	M		Prominent redox concentrations	
-									
							_		
<sup>1</sup> Type: C=Co	ncentration, D=Depl	etion, RM:	=Reduced Matrix, M	S=Mask	ed Sand	Grains.	<sup>2</sup> Location: P	L=Pore Lining, M=Matrix.	
Hydric Soil I		•	,					or Problematic Hydric Soils <sup>3</sup> :	
Histosol (	(A1)		Polyvalue Belov	w Surfac	ce (S8) ( <b>L</b>	.RR R,	2 cm Mu	ck (A10) (LRR K, L, MLRA 149B)	
Histic Ep	ipedon (A2)		MLRA 149B)	)				rairie Redox (A16) (LRR K, L, R)	
Black His			Thin Dark Surfa	ace (S9)	(LRR R,	MLRA 1		cky Peat or Peat (S3) (LRR K, L, R)	
Hydroger	n Sulfide (A4)		High Chroma S	ands (S	11) (LRR	R K, L)	Polyvalu	e Below Surface (S8) (LRR K, L)	
Stratified	Layers (A5)		Loamy Mucky N	Vineral (	F1) (LRR	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)		
	rk Surface (A12)		Depleted Matrix	, ,			Piedmont Floodplain Soils (F19) (MLRA 149B)		
	ucky Mineral (S1)		X Redox Dark Su				Mesic Spodic (TA6) (MLRA 144A, 145, 149B)		
	leyed Matrix (S4)		Depleted Dark				Red Parent Material (F21)		
	edox (S5)		? Redox Depress	•	3)		Very Shallow Dark Surface (F22)		
	Matrix (S6)		Marl (F10) ( <b>LRI</b>	K K, L)			Other (Explain in Remarks)		
Dark Sur	lace (S7)								
	hydrophytic vegetati	on and we	etland hydrology mus	st be pre	sent, unl	ess distu	rbed or problematic.		
	ayer (if observed):								
Type: _ Depth (in	iches):						Hydric Soil Preser	nt? Yes X No	
Remarks:							Tiyunc don r reser	163 <u>/</u> 160	
rtemarks.									



Wetland CR-15 View facing north



Wetland CR-15 Soils

Phase 1

## SITE PHOTOGRAPHS

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

Project/Site: CHPE	City/County: Putnam / Washington Sampling Date: 10/13/21
Applicant/Owner: TDI	State: NY Sampling Point: UPL CR-15
Investigator(s): J. Greaves, C. Scrivner	Section, Township, Range:
	relief (concave, convex, none): Concave Slope %: 45
Subregion (LRR or MLRA): LRR R Lat: 43-43-13.49N	Long: 73-25-29.28W Datum: WGS 84
Soil Map Unit Name: Sa - Saco silt loam	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 Hydrologysignificantly disturb	
Are Vegetation, Soil, or Hydrologynaturally problema	
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:
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	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 (I	
Sediment Deposits (B2) Oxidized Rhizospheres of Drift Deposits (B3) Presence of Reduced Iro	
Algal Mat or Crust (B4)  Algal Mat or Crust (B4)  Recent Iron Reduction in	· , , , , , , , , , , , , , , , , , , ,
Iron Deposits (B5)  Thin Muck Surface (C7)	
Inundation Visible on Aerial Imagery (B7)  Other (Explain in Remark	
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No _X Depth (inches):	s
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:	

<u>Tree Stratum</u> (Plot size: 30' )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:			
1. Ulmus americana	1	No	FACW				
2.				Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)			
3. 4.				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: 0.0% (A/B)			
7.				Prevalence Index worksheet:			
	1	=Total Cover		Total % Cover of: Multiply by:			
Sapling/Shrub Stratum (Plot size:15')				OBL species 0 x 1 = 0			
1. Rhus typhina	2	No	UPL	FACW species 1 x 2 = 2			
2. Lonicera morrowii	2	No	FACU	FAC species 2 x 3 = 6			
3.				FACU species 92 x 4 = 368			
4.				UPL species10 x 5 =50			
5.				Column Totals: 105 (A) 426 (B)			
6.				Prevalence Index = B/A = 4.06			
7.				Hydrophytic Vegetation Indicators:			
	4	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation			
Herb Stratum (Plot size: 5' )		•		2 - Dominance Test is >50%			
1. Lolium pratense	50	Yes	FACU	3 - Prevalence Index is ≤3.0 <sup>1</sup>			
Solidago canadensis	35	Yes	FACU	4 - Morphological Adaptations <sup>1</sup> (Provide supporting			
3. Pastinaca sativa	5	No	UPL	data in Remarks or on a separate sheet)			
Symphyotrichum ericoides	5	No	FACU	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)			
5. Asclepias syriaca	3	No	UPL				
6. Cornus racemosa	2	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			
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.							
3.				Hydrophytic Vegetation			
4				Present?			
		=Total Cover					
Remarks: (Include photo numbers here or on a separa	ate sheet.)	•					

Sampling Point: UPL CR-15

SOIL Sampling Point: UPL CR-15

		the dep				tor or co	nfirm the absence of ind	licators.)
Depth	Matrix	0/		x Featur		1 2	Tautuma	Demonto
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-9	10YR 3/2	100					Loamy/Clayey	
9-16	10YR 2/2	85	2.5YR 3/4	15	С	M	Mucky Loam/Clay	Prominent redox concentrations
			-					
<sup>1</sup> Type: C=Co	ncentration, D=Deple	etion, RM	=Reduced Matrix, M	S=Mask	ed Sand	Grains.	<sup>2</sup> Location: PL=F	Pore Lining, M=Matrix.
Hydric Soil Ir		,	,					Problematic Hydric Soils <sup>3</sup> :
Histosol (	A1)		Polyvalue Below	w Surfac	ce (S8) ( <b>I</b>	RR R,	2 cm Muck	(A10) (LRR K, L, MLRA 149B)
Histic Epi	pedon (A2)		MLRA 149B)	)			Coast Prairi	ie Redox (A16) (LRR K, L, R)
Black His			Thin Dark Surfa					Peat or Peat (S3) (LRR K, L, R)
	Sulfide (A4)		High Chroma S					selow Surface (S8) (LRR K, L)
	Layers (A5)	(444)	Loamy Mucky N			R K, L)		Surface (S9) (LRR K, L)
	Below Dark Surface k Surface (A12)	(A11)	Loamy Gleyed Depleted Matrix	,	F2)			nese Masses (F12) (LRR K, L, R) loodplain Soils (F19) (MLRA 149B)
	ucky Mineral (S1)		Redox Dark Su		·6)			lic (TA6) (MLRA 144A, 145, 149B)
	eyed Matrix (S4)		Depleted Dark					Material (F21)
Sandy Re			Redox Depress					w Dark Surface (F22)
	Matrix (S6)		Marl (F10) (LRI					ain in Remarks)
Dark Surf	ace (S7)		·					
	hydrophytic vegetatio	on and we	etland hydrology mus	st be pre	esent, unl	ess distu	rbed or problematic.	
	ayer (if observed):							
Type:								
Depth (in	ches):						Hydric Soil Present?	Yes No _X
Remarks:								



**Upland CR-15 View facing southeast** 



**Upland CR-15 Soils** 

Phase 1

# SITE PHOTOGRAPHS

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

Project/Site: CHPE	City/County: Putnam / Washington Sampling Date: 10/13/21
Applicant/Owner: TDI	State: NY Sampling Point: WET CS-5
Investigator(s): J. Greaves, C. Scrivner	Section, Township, Range:
	relief (concave, convex, none): Concave Slope %: 3
Subregion (LRR or MLRA): LRR R Lat: 43-43-10.69N	Long: 73-25-30.80W Datum: WGS 84
Soil Map Unit Name: VeD - Vergennes silty clay loam, 12 to 20 percent slop	
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 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 CS-5
Palustrine Emergent Marsh - Roadside ditch. Edinger classification: Shallov wetland is a cattail marsh community (consisting of the same information or	
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)
X Saturation (A3) Marl Deposits (B15)	X 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	
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 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:			
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:(A/B)			
7.				Prevalence Index worksheet:			
		=Total Cover		Total % Cover of: Multiply by:			
Sapling/Shrub Stratum (Plot size:)				OBL species 58 x 1 = 58			
1. Cornus amomum	2	No	FACW	FACW species 34 x 2 = 68			
2. Lonicera morrowii	1	No	FACU	FAC species 0 x 3 = 0			
3				FACU species6 x 4 =24			
4				UPL species 0 x 5 = 0			
5				Column Totals: 98 (A) 150 (B)			
6.				Prevalence Index = B/A = 1.53			
7				Hydrophytic Vegetation Indicators:			
	3	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation			
Herb Stratum (Plot size: 5' )		•		X 2 - Dominance Test is >50%			
1. Typha angustifolia	50	Yes	OBL	X 3 - Prevalence Index is ≤3.0 <sup>1</sup>			
Phalaris arundinacea	30	Yes	FACW	4 - Morphological Adaptations <sup>1</sup> (Provide supporting			
3. Lythrum salicaria	8	No	OBL	data in Remarks or on a separate sheet)			
Symphyotrichum ericoides	5	No	FACU	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)			
5. Cornus amomum	2	No	FACW	<del></del>			
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			
	95	=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.		· <u></u>		Hydrophytic			
4.				Vegetation Present? Yes X No			
		=Total Cover					
Remarks: (Include photo numbers here or on a separa	ate sheet )	•		L			
Tremarks. (include prioto humbers here of on a separ	ate sheet.)						

Sampling Point:

WET CS-5

SOIL Sampling Point: WET CS-5

Profile Descr	ription: (Describe to	the dep				tor or co	onfirm the absence of ir	ndicators.)		
Depth	Matrix			x Feature		. 2	_			
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks		
0-8	10YR 2/1	100					Muck	with organics		
8-13	5Y 4/1	100					Sandy	with fill material		
13-16	10Y 5/1	65	10YR 4/3	30	С	M	Mucky Loam/Clay	Prominent redox concentrations		
			10YR 5/3	5	<u>C</u>	M		Prominent redox concentrations		
<sup>1</sup> Type: C=Cor	ncentration, D=Deple	etion, RM=	Reduced 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 Belov	w Surfac	e (S8) ( <b>L</b>	RR R,	2 cm Muc	k (A10) ( <b>LRR K, L, MLRA 149B</b> )		
X Histic Epi			MLRA 149B)	,				airie Redox (A16) ( <b>LRR K, L, R</b> )		
X Black His			Thin Dark Surfa							
	Sulfide (A4)		High Chroma S				Polyvalue Below Surface (S8) (LRR K, L)			
	Layers (A5)	(4.44)	Loamy Mucky N			R K, L)	Thin Dark Surface (S9) (LRR K, L)			
	Below Dark Surface	(A11)	Loamy Gleyed	•	-2)		Iron-Manganese Masses (F12) (LRR K, L, R)			
	k Surface (A12)		Depleted Matrix		C)		Piedmont Floodplain Soils (F19) (MLRA 149B)			
	ucky Mineral (S1)		Redox Dark Su				Mesic Spodic (TA6) (MLRA 144A, 145, 149B)			
Sandy Re	eyed Matrix (S4)		Depleted Dark  Redox Depress				Red Parent Material (F21)			
	Matrix (S6)		Marl (F10) (LR		"		Very Shallow Dark Surface (F22) Other (Explain in Remarks)			
Dark Surf				, _,				praint in tremaine,		
	uss (e.)									
		on and we	tland hydrology mus	st be pre	sent, unl	ess distu	urbed or problematic.			
Type:	ayer (if observed):									
Depth (inc	ches):		<del></del>				Hydric Soil Present	? Yes X No		
Remarks:							- <b>L</b>			



Wetland CS-5 View facing south/southwest



Wetland CS-5 Soils

Phase 1

# SITE PHOTOGRAPHS

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

Project/Site: CHPE	City/County: Putnam / Washington Sampling Date: 10/13/21
Applicant/Owner: TDI	State: NY Sampling Point: UPL CS-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: 43-43-10.65N	Long: 73-25-30.56W Datum: WGS 84
Soil Map Unit Name: VeD - Vergennes silty clay loam, 12 to 20 percent slo	
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>	
SUMMARY OF FINDINGS – Attach site map showing sam	npling point locations, transects, important leatures, etc.
Hydrophytic Vegetation Present? Yes No _X	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:
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 (B42)	
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 Reduced Ire	
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)
Field Observations:	
Surface Water Present? Yes No X Depth (inches):  Water Table Present? Yes No X Depth (inches):	
Water Table Present? Yes No X Depth (inches): Saturation Present? Yes No X Depth (inches):	
(includes capillary fringe)	Wettalid Hydrology Freschit: 100 100
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	L avious inspections) if available:
Besone recorded Bata (stream gauge, monitoring won, dental prictes, pre	inspections), if available.
Remarks:	

	Abaduta	Dominant	Indicator	Sampling Point: UPL CS-5
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)
				Total Number of Dominant
				Species Across All Strata: 2 (B)
·				Percent of Dominant Species
				That Are OBL, FACW, or FAC: 50.0% (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 35 x 2 = 70
				FAC species 0 x 3 = 0
				FACU species60 x 4 =240
				UPL species 5 x 5 = 25
				Column Totals: 100 (A) 335 (E
				Prevalence Index = B/A = 3.35
				Hydrophytic Vegetation Indicators:
		=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
erb Stratum (Plot size:5' )				2 - Dominance Test is >50%
Lolium pratense	50	Yes	FACU	3 - Prevalence Index is ≤3.0 <sup>1</sup>
Phalaris arundinacea	35	Yes	FACW	4 - Morphological Adaptations (Provide supporti
Taraxacum officinale	5	No	FACU	data in Remarks or on a separate sheet)
Lotus corniculatus	5	No	FACU	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
Vicia cracca	5	No	UPL	<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
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.
				Woody vines – All woody vines greater than 3.28 ft in
/oody Vine Stratum (Plot size: 30')				height.
·				1
				Hydrophytic Vegetation
				Hydrophytic Vegetation Present? Yes No _X

SOIL Sampling Point: UPL CS-5

		o the dep				tor or co	nfirm the absence of indicate	ors.)
Depth	Matrix			x Featur		2	T	Demole
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-4	10YR 2/1	100					Loamy/Clayey	
4-12	10YR 4/1	95	5YR 4/6	5	С	М	Sandy	
( <u> </u>								
<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 Ir								ematic Hydric Soils <sup>3</sup> :
Histosol (			Polyvalue Belo		ce (S8) ( <b>I</b>	_RR R,		) (LRR K, L, MLRA 149B)
	pedon (A2)		MLRA 149B	,				dox (A16) (LRR K, L, R)
Black His			Thin Dark Surfa					at or Peat (S3) (LRR K, L, R)
	Sulfide (A4)		High Chroma S					Surface (S8) (LRR K, L)
	Layers (A5)	(0.44)	Loamy Mucky I			K K, L)		ce (S9) (LRR K, L)
	Below Dark Surface	(ATT)	Loamy Gleyed Depleted Matrix	,	F2)			Masses (F12) (LRR K, L, R)
	k Surface (A12) ucky Mineral (S1)		Redox Dark Su	, ,	·6)			Diain Soils (F19) ( <b>MLRA 149B</b> ) A6) ( <b>MLRA 144A, 145, 149B</b> )
	eyed Matrix (S4)		Depleted Dark				Red Parent Mate	
X Sandy Re			Redox Depress		. ,		Very Shallow Da	
	Matrix (S6)		Marl (F10) (LR		0)		Other (Explain in	
Dark Surf				, _,			Outer (Explain in	rtomanoj
Baik Guii	acc (Gr)							
	hydrophytic vegetation	on and we	etland hydrology mus	st be pre	esent, unl	ess distu	rbed or problematic.	
Type:	ayer (if observed): Roc	le.						
Depth (in		12					Hydric Soil Present?	Yes X No
Remarks:		12					Tiyano con i resent.	



**Upland CS-5 View facing north/northeast** 



**Upland CS-5 Soils** 

Phase 1

## **SITE PHOTOGRAPHS**

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

Project/Site: CHPE	City/County: Putnam / Washington Sampling Date: 10/13/21							
Applicant/Owner: TDI	State: NY Sampling Point: WET CT-7							
Investigator(s): J. Greaves, C.Scrivner	Section, Township, Range:							
	relief (concave, convex, none): Convex Slope %: 2							
Subregion (LRR or MLRA): LRR R Lat: 43-43-7.40N	Long: 73-25-32.60W Datum: WGS 84							
Soil Map Unit Name: VeB - Vergennes silty clay loam, 3 to 8 percent slopes								
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 sam	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 CT-7							
Remarks: (Explain alternative procedures here or in a separate report.) Palustrine Emergent Marsh - Cattail Marsh. Edinger classification: Shallow Emergent Marsh. Portions of this wetland are periodically mowed.								
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	B9) Drainage Patterns (B10)							
X High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)							
X Saturation (A3) — Marl Deposits (B15)	X Dry-Season Water Table (C2)							
Water Marks (B1) Hydrogen Sulfide Odor (0								
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)	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:								

				· · · · · · · · · · · · · · · · · · ·
Free Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
I				Number of Dominant Species
2.				That Are OBL, FACW, or FAC: 1 (A)
3				Total Number of Dominant
i				Species Across All Strata: 1 (B)
5				Percent of Dominant Species
S				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 99 x 1 = 99
·				FACW species1 x 2 =2
<u></u> .				FAC species 0 x 3 = 0
				FACU species 0 x 4 = 0
				UPL species 0 x 5 = 0
				Column Totals: 100 (A) 101 (B
				Prevalence Index = B/A = 1.01
				Hydrophytic Vegetation Indicators:
		=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5' )				X 2 - Dominance Test is >50%
. Typha angustifolia	90	Yes	OBL	X 3 - Prevalence Index is ≤3.0 <sup>1</sup>
2. Lythrum salicaria	9	No	OBL	4 - Morphological Adaptations <sup>1</sup> (Provide supportin
3. Symphyotrichum novae-angliae	1	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 b
S				present, unless disturbed or problematic.
7				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				Herb – All herbaceous (non-woody) plants, regardless
	100	=Total Cover		of size, and woody plants less than 3.28 ft tall.
Noody Vine Stratum (Plot size:)				Woody vines – All woody vines greater than 3.28 ft in
l				height.
2.				
3.				Hydrophytic Vegetation
				Present? Yes X No
1.				
4		=Total Cover		

SOIL Sampling Point: WET CT-7

		o the de				or or co	nfirm the absence of	indicators.)	
Depth	Matrix	0/		k Feature		1 2	Tantona	Damada	
(inches)	Color (moist)	<u>%</u>	Color (moist)		Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks	
7-16	10YR 2/1 N 4/	<u>100</u> 40	10YR 5/3	40			Mucky Sand	Draminant raday concentrations	
7-10	IN 4/	40			<u>C</u>		Mucky Loam/Clay	Prominent redox concentrations	
			10YR 5/6	20	<u>C</u>	<u>M</u>		Prominent redox concentrations	
								_	
								_	
<sup>1</sup> Type: C=Co	oncentration, D=Deple	etion, RM	=Reduced Matrix, M	S=Mask	ed Sand	Grains.	<sup>2</sup> Location: P	L=Pore Lining, M=Matrix.	
Hydric Soil								or Problematic Hydric Soils <sup>3</sup> :	
Histosol			Polyvalue Belov		e (S8) ( <b>L</b>	.RR R,		ck (A10) (LRR K, L, MLRA 149B)	
	pipedon (A2)		MLRA 149B)		/I DD D	MIDA		rairie Redox (A16) (LRR K, L, R)	
Black Hi	stic (A3) n Sulfide (A4)		? Thin Dark Surfa					e Below Surface (S8) (LRR K, L, R)	
	l Layers (A5)							k Surface (S9) (LRR K, L)	
Stratified Layers (A5) Loamy Mucky Mineral (F1) (LRR K, L)  Depleted Below Dark Surface (A11) Loamy Gleyed Matrix (F2)					Iron-Manganese Masses (F12) (LRR K, L, R)				
	ark Surface (A12)	` ,	Depleted Matrix		,		Piedmont Floodplain Soils (F19) (MLRA 149B)		
X Sandy M	Sandy Mucky Mineral (S1) Redox Dark Surface (F6)				Mesic Spodic (TA6) ( <b>MLRA 144A, 145, 149B</b> )				
Sandy G	Sandy Gleyed Matrix (S4)  Depleted Dark Surface (F7)					Red Parent Material (F21)			
	edox (S5)		Redox Depress		3)			allow Dark Surface (F22)	
	Matrix (S6)		Marl (F10) ( <b>LR</b> l	R K, L)			Other (E	xplain in Remarks)	
? Dark Su	mace (S7)								
<sup>3</sup> Indicators of	f hydrophytic vegetati	on and w	etland hydrology mus	st be pre	sent, unl	ess distu	irbed or problematic.		
	_ayer (if observed):		, , , , , , , , , , , , , , , , , , ,		., .				
Type:									
Depth (in	nches):						Hydric Soil Preser	nt? Yes X No	
Remarks:									



Wetland CT-7 View facing south/southwest



**Wetland CT-7 Soils** 

Phase 1

## **SITE PHOTOGRAPHS**

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

Project/Site: CHPE	City/County: Putnam / Washington Sampling Date: 10/13/21
Applicant/Owner: TDI	State: NY Sampling Point: UPL CT-7
Investigator(s): J. Greaves, C.Scrivner	Section, Township, Range:
Landform (hillside, terrace, etc.): Hillslope Local	relief (concave, convex, none): Convex Slope %: 45
Subregion (LRR or MLRA): LRR R Lat: 43-43-7.29N	Long: 73-25-32.53W Datum: WGS 84
Soil Map Unit Name: VeB - Vergennes silty clay loam, 3 to 8 percent slope	
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 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 (	(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)	
Water Table Present? Yes No X Depth (inches)	
Saturation Present? Yes No Depth (inches)	:   Wetland Hydrology Present? Yes No _X
(includes capillary fringe)	reference in apportunate in the control of a
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	evious inspections), if available.
Remarks:	

Absolute	Dominant	Indicator				
% Cover	Species?	Status	Dominance Test worksheet:			
			Number of Deminant Coopies			
	·		Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)			
			Total New York (Description			
·			Total Number of Dominant Species Across All Strata: 2 (B)			
			Percent of Dominant Species That Are OBL, FACW, or FAC: 50.0% (A/B			
			Prevalence Index worksheet:			
	=Total Cover		Total % Cover of: Multiply by:			
			OBL species 0 x 1 = 0			
			FACW species 0 x 2 = 0			
			FAC species 35 x 3 = 105			
			FACU species 55 x 4 = 220			
			UPL species 5 x 5 = 25			
			Column Totals: 95 (A) 350 (E			
·			Prevalence Index = B/A = 3.68			
			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>			
35	Yes	FAC	4 - Morphological Adaptations <sup>1</sup> (Provide supporting			
5	No		data in Remarks or on a separate sheet)			
5	No	FACU	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)			
5	No	FACU	<ul> <li>Indicators of hydric soil and wetland hydrology must be</li> </ul>			
5	No	UPL	present, unless disturbed or problematic.			
5	No	FACU	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 ir			
			height.			
			Hydrophytic			
			Hydrophytic Vegetation Present? Yes No X			
	40 35 5 5 5	=Total Cover  =Total Cover  =Total Cover  40	=Total Cover  =Total Cover  =Total Cover  40			

SOIL Sampling Point: UPL CT-7

Profile Desc Depth	ription: (Describe to Matrix	the dept		ment the x Feature		or or co	nfirm the absence of indicators.)	
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-12	10YR 3/2	100					Sandy	
	oncentration, D=Deple	tion, RM=	Reduced Matrix, M	S=Mask	ed Sand	Grains.	<sup>2</sup> Location: PL=Pore Lining	
Hydric Soil I			5 5.		(00) (1		Indicators for Problemati	-
Histosol		-	Polyvalue Belo		e (S8) ( <b>L</b>	.RR R,	2 cm Muck (A10) (LRF	
Black His	ipedon (A2)		MLRA 149B Thin Dark Surfa	,	(I RR R	MI RA 1	Coast Prairie Redox (A	eat (S3) ( <b>LRR K, L, R</b> )
	n Sulfide (A4)	-	High Chroma S				Polyvalue Below Surfa	, , , , , , , , , , , , , , , , , , , ,
	Layers (A5)	-	Loamy Mucky I				Thin Dark Surface (S9	. , , , , , , , , , , , , , , , , , , ,
	Below Dark Surface	(A11)	Loamy Gleyed			, -,		es (F12) ( <b>LRR K, L, R</b> )
	rk Surface (A12)	` ′ -	Depleted Matrix		,			Soils (F19) (MLRA 149B)
Sandy M	ucky Mineral (S1)	-	Redox Dark Su	ırface (F	6)		Mesic Spodic (TA6) (N	ILRA 144A, 145, 149B)
Sandy G	leyed Matrix (S4)	_	Depleted Dark	Surface	(F7)		Red Parent Material (F	F21)
	edox (S5)	_	Redox Depress		3)		Very Shallow Dark Sui	
	Matrix (S6)	-	Marl (F10) ( <b>LR</b>	R K, L)			Other (Explain in Rem	arks)
Dark Sur	face (S7)							
3Indicators of	hydrophytic yogototic	on and wa	tland hydrology mus	ct bo pro	cont unl	oce dietu	thad or problematic	
	hydrophytic vegetation aver (if observed):	on and we	land hydrology mus	st be pre	Sent, uni	ess distui	bed of problematic.	
Type:	Roc	k						
Depth (in		12					Hydric Soil Present? Yes	es No X
Remarks:							,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	<u> </u>
ixemaiks.								



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



**Upland CT-7 Soils** 

# Phase 1

## **SITE PHOTOGRAPHS**

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

Project/Site: CHPE	City/County: Putnam / Washington Sampling Date: 10/13/21
Applicant/Owner: TDI	State: NY Sampling Point: WET CU-5
Investigator(s): J. Greaves, C.Scrivner	Section, Township, Range:
Landform (hillside, terrace, etc.): Depression Local r	relief (concave, convex, none): Conave Slope %: 2
Subregion (LRR or MLRA): LRR R Lat: 43-43-3.76N	Long: 73-25-35.57W Datum: WGS 84
Soil Map Unit Name: VeB - Vergennes silty clay loam, 3 to 8 percent slopes	
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>
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 CU-5
Remarks: (Explain alternative procedures here or in a separate report.) Palustrine Emergent Marsh dominated by purple loosestrife. Edinger classif	ication: Purple Loosestrife 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	B9) Drainage Patterns (B10)
X High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)
X Saturation (A3) Marl Deposits (B15)	X Dry-Season Water Table (C2)
Water Marks (B1) Hydrogen Sulfide Odor (0	
Sediment Deposits (B2)  X 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):	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.	/0 0010.	Ороско.	Olalac	
2.				Number of Dominant Species That Are OBL, FACW, or FAC:(A)
3				Total Number of Dominant
4				Species Across All Strata: 3 (B)
5				Percent of Dominant Species
6.				That Are OBL, FACW, or FAC: 66.7% (A/B)
7.				Prevalence Index worksheet:
Sapling/Shrub Stratum (Plot size: 15' )		=Total Cover		Total % Cover of:         Multiply by:           OBL species         95         x 1 = 95
1. Cornus amomum	15	Yes	FACW	OBL species 95 x 1 = 95 FACW species 22 x 2 = 44
Quercus bicolor	1	No	FACW	FAC species 0 x 3 = 0
3. Ulmus americana	1	No No	FACW	FACU species 5 x 4 = 20
4.			TACT	UPL species 0 x 5 = 0
5				Column Totals: 122 (A) 159 (B)
· ·				
6 7.				Prevalence Index = B/A = 1.30  Hydrophytic Vegetation Indicators:
<i>1.</i>	47	Tatal Cover		
Herb Stratum (Plot size: 5' )	17	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation X 2 - Dominance Test is >50%
	05	Voo	OPI	<del></del>
1. Lythrum salicaria	<u>85</u>	Yes	OBL	X 3 - Prevalence Index is ≤3.0¹
2. Leersia oryzoides	5	No No	OBL	4 - Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)
3. Epilobium coloratum	5	No No	OBL	
4. Symphyotrichum novae-angliae	5	No	FACW	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	100	Total Carran		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' )	_		= A O. I	<b>Woody vines</b> – All woody vines greater than 3.28 ft in
1. Vitis aestivalis	5	Yes	FACU	height.
2.				Hydrophytic
3.				Vegetation
4				Present? Yes X No
		=Total Cover		
Remarks: (Include photo numbers here or on a separa	ate sheet.)			

Sampling Point:

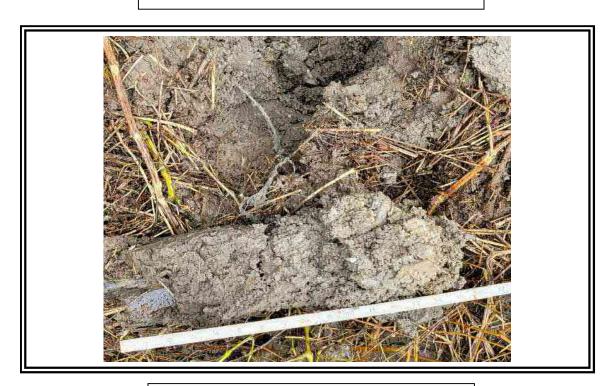
WET CU-5

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

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)										
Depth	Matrix			k Featur		2				
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks		
0-7	2.5Y 4/1	87	10YR 4/3	3	<u>C</u>	PL	Loamy/Clayey	Distinct redox concentrations		
			10YR 4/3	10	<u>C</u>	<u>M</u>		Distinct redox concentrations		
7-16	2.5Y 5/1	55	10YR 5/6	30	<u>C</u>	M	Mucky Loam/Clay	Prominent redox concentrations		
			10YR 4/6	10	С	M		Prominent redox concentrations		
			10YR 3/1	5	С	М		Distinct redox concentrations		
	oncentration, D=Deple	etion, RM	=Reduced Matrix, MS	S=Mask	ed Sand	Grains.		L=Pore Lining, M=Matrix.		
Hydric Soil I			O. Dalvardur Dalar	0	(00) (1	DD D		or Problematic Hydric Soils <sup>3</sup> :		
Histosol			Polyvalue Belov MLRA 149B)		ce (58) ( <b>L</b>	_KK K,		ck (A10) (LRR K, L, MLRA 149B)		
Black His	stic (A3)		Thin Dark Surfa		(LRR R.	MLRA		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 M					k Surface (S9) (LRR K, L)		
	Below Dark Surface	(A11)	Loamy Gleyed I			, ,	? Iron-Manganese Masses (F12) (LRR K, L, R)			
	ırk Surface (A12)		X Depleted Matrix				Piedmont Floodplain Soils (F19) (MLRA 149B)			
Sandy M	lucky Mineral (S1)		Redox Dark Sur	rface (F	6)		Mesic Spodic (TA6) (MLRA 144A, 145, 149B)			
Sandy G	leyed Matrix (S4)		Depleted Dark S	Surface	(F7)		Red Parent Material (F21)			
Sandy R	edox (S5)		? Redox Depress	ions (F	3)		Very Shallow Dark Surface (F22)			
Stripped	Matrix (S6)		Marl (F10) ( <b>LRF</b>	R K, L)			Other (Explain in Remarks)			
Dark Sur	face (S7)									
<sup>3</sup> Indicators of	hydrophytic vegetation	on and w	etland hydrology mus	st be pre	esent, unl	ess distu	urbed or problematic.			
	_ayer (if observed):		, 0,				,			
Type:										
Depth (ir	nches):						Hydric Soil Present? Yes X No			
Remarks:										



Wetland CU-5 View facing southwest



**Wetland CU-5 Soils** 

# Phase 1

# SITE PHOTOGRAPHS

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

Project/Site: CHPE	City/County: Putnam / Washington Sampling Date: 10/13/21
Applicant/Owner: TDI	State: NY Sampling Point: UPL CU-5
Investigator(s): J. Greaves, C.Scrivner	Section, Township, Range:
Landform (hillside, terrace, etc.): Hillslope Local	relief (concave, convex, none): Concave Slope %: 45
Subregion (LRR or MLRA): LRR R Lat: 43-43-3.65N	Long: 73-25-35.26W Datum: WGS 84
Soil Map Unit Name: VeB - Vergennes silty clay loam, 3 to 8 percent slopes	
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	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.	
L 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	<u> </u>
Algal Mat or Crust (B4)  Recent Iron Reduction in	
Iron Deposits (B5)Thin Muck Surface (C7)	· · · · · ·
Inundation Visible on Aerial Imagery (B7) Other (Explain in 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 Recorded Data (Stream gauge, monitoring well, aemai photos, pre	vious inspections), ii avaliable.
Remarks:	

Tree Stratum (Plot size: 30' )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:			
1				Number of Dominant Species That Are OBL, FACW, or FAC:(A)			
3. 4.				Total Number of Dominant Species Across All Strata: 2 (B)			
5				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 5 x 1 = 5			
1				FACW species 0 x 2 = 0			
2	1			FAC species 45 x 3 = 135			
3	1		·	FACU species 50 x 4 = 200			
4.				UPL species0 x 5 =0			
5.				Column Totals: 100 (A) 340 (B)			
6.				Prevalence Index = B/A = 3.40			
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	45	Yes	FAC	3 - Prevalence Index is ≤3.0 <sup>1</sup>			
Poa pratensis	45	Yes	FACU	4 - Morphological Adaptations <sup>1</sup> (Provide supporting			
Taraxacum officinale		No	OBL	data in Remarks or on a separate sheet)			
Cichorium intybus	5	No	FACU	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.				<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' )  1.				Woody vines – All woody vines greater than 3.28 ft in height.			
2				Torgetti			
2				Hydrophytic			
				Vegetation Present? Yes No X			
4.	-	T-1-1-0		Present? Yes No X			
		=Total Cover					
Remarks: (Include photo numbers here or on a separ	ate sheet.)						

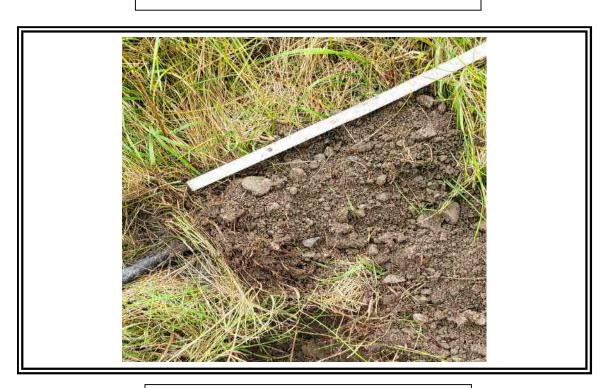
Sampling Point: UPL CU-5

SOIL Sampling Point: UPL CU-5

Profile Desc Depth	cription: (Describe to Matrix	o the dept		ment the x Feature		or or co	nfirm the absence of indicators.)	
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture Remarks	
0-13	10YR 3/2	100					Sandy	
	-							
	-							
1								
Type: C=Co	oncentration, D=Deple	etion, RM=	Reduced Matrix, M	S=Maske	ed Sand	Grains.	<sup>2</sup> Location: PL=Pore Lining, M=Matrix.  Indicators for Problematic Hydric So	ile <sup>3</sup> .
Histosol			Polyvalue Belo	w Surfac	e (S8) (I	RR R	2 cm Muck (A10) (LRR K, L, MLR	
	pipedon (A2)	-	MLRA 149B		)C (OO) (E	in in,	Coast Prairie Redox (A16) (LRR K	
Black His	. , ,		Thin Dark Surfa	,	(LRR R,	MLRA 1		
Hydroge	n Sulfide (A4)	_	High Chroma S	3ands (S	11) (LRR	k K, L)	Polyvalue Below Surface (S8) (LRI	R K, L)
Stratified	d Layers (A5)	_	Loamy Mucky I	Mineral (	F1) ( <b>LRF</b>	R K, L)	Thin Dark Surface (S9) (LRR K, L)	)
	d Below Dark Surface	(A11)	Loamy Gleyed	Matrix (F	<del>-</del> 2)		Iron-Manganese Masses (F12) (LF	R K, L, R)
	ark Surface (A12)	_	Depleted Matrix	. ,			Piedmont Floodplain Soils (F19) (N	
	lucky Mineral (S1)	_	Redox Dark Su				Mesic Spodic (TA6) (MLRA 144A,	145, 149B)
	eleyed Matrix (S4)	-	Depleted Dark				Red Parent Material (F21)	
	edox (S5) Matrix (S6)	_	Redox Depress Marl (F10) (LR		P)		Very Shallow Dark Surface (F22) Other (Explain in Remarks)	
	rface (S7)	_		, –,				
	,							
<sup>3</sup> Indicators of	f hydrophytic vegetation	on and wet	land hydrology mus	st be pre	sent, unl	ess distu	rbed or problematic.	
	_ayer (if observed):							
Type:	Roc	k						
Depth (ir	nches):	13					Hydric Soil Present? Yes	No X
Remarks:								



**Upland CU-5 View facing north/northeast** 



**Upland CU-5 Soils** 

Phase 1

# SITE PHOTOGRAPHS

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

Project/Site: CHPE	City/County: Putnam / Washington Sampling Date: 10/13/21
Applicant/Owner: TDI	State: NY Sampling Point: WET CV-3
Investigator(s): J. Greaves, C.Scrivner	Section, Township, Range:
	relief (concave, convex, none): Conave Slope %: 2
Subregion (LRR or MLRA): LRR R Lat: 43-43-2.99N	Long: 73-25-36.07W Datum: WGS 84
Soil Map Unit Name: VeB - Vergennes silty clay loam, 3 to 8 percent slopes	
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	ipling 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 CV-3
Palustrine Emergent Marsh dominated by purple loosestrife and cattail. Edir mowed periodically.	nger classification: Purple Loosestrife Marsh. Most of this wetland is
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	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 (C	
Sediment Deposits (B2) Oxidized Rhizospheres o	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 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	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):	8
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:	

<u>Tree Stratum</u> (Plot size: 30' )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1.	/0 OOVC!	орескоз:	Giaius	
2.				Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)
3.       4.				Total Number of Dominant Species Across All Strata: 3(B)
5.				Percent of Dominant Species
6.				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:)				OBL species 95 x 1 = 95
1				FACW species 5 x 2 = 10
2				FAC species 0 x 3 = 0
3.				FACU species 5 x 4 = 20
4				UPL species 0 x 5 = 0
5				Column Totals: 105 (A) 125 (B)
6.				Prevalence Index = B/A = 1.19
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	40	Yes	OBL	X 3 - Prevalence Index is ≤3.0 <sup>1</sup>
2. Lythrum salicaria	40	Yes	OBL	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
3. Juncus tenuis	10	No	OBL	data in Remarks or on a separate sheet)
Carex vulpinoidea	5	No	OBL	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5. Agrostis gigantea	5	No	FACW	
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
	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. Vitis aestivalis	5	Yes	FACU	height.
2				
3.				Hydrophytic Vegetation
4.				Present? Yes X No No
<del></del>	5	=Total Cover		
Remarks: (Include photo numbers here or on a separa	ate sheet.)	<u></u>		
•	•			

Sampling Point:

WET CV-3

SOIL Sampling Point: WET CV-3

		the dep				tor or co	nfirm the absence of indicat	tors.)	
Depth	Matrix	0/		x Featur		2	<b>T</b>	Develo	
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks	
0-6	10YR 2/1	100					Loamy/Clayey		
6-16	2.5Y 4/1	60	2.5Y 5/3	40	С	М	Sandy Di	istinct redox concentrations	
				—			<del></del>		
	·				·				
				—			<del></del>		
	ncentration, D=Deple	etion, RM	=Reduced Matrix, M	S=Mask	ed Sand	Grains.	<sup>2</sup> Location: PL=Pore		
Hydric Soil Ir					(0.0)			olematic Hydric Soils <sup>3</sup> :	
Histosol (			Polyvalue Belo		ce (S8) ( <b>L</b>	RR R,		0) (LRR K, L, MLRA 149B)	
Black His	pedon (A2)		MLRA 149B) Thin Dark Surfa	,	(I RR R	MIRA 1		edox (A16) ( <b>LRR K, L, R</b> ) at or Peat (S3) ( <b>LRR K, L, R</b> )	
	Sulfide (A4)		High Chroma S					llue Below Surface (S8) (LRR K, L)	
	Layers (A5)		Loamy Mucky I				Thin Dark Surface (S9) (LRR K, L)		
X Depleted	Below Dark Surface	(A11)	Loamy Gleyed				Iron-Manganese Masses (F12) (LRR K, L, R)		
Thick Dar	k Surface (A12)		Depleted Matrix	x (F3)			Piedmont Floodplain Soils (F19) (MLRA 149B)		
Sandy Mu	ucky Mineral (S1)		Redox Dark Su	ırface (F	6)			ΓA6) ( <b>MLRA 144A, 145, 149B</b> )	
	eyed Matrix (S4)		Depleted Dark				Red Parent Mat	, ,	
X Sandy Re			Redox Depress		3)			ark Surface (F22)	
? Stripped I	Matrix (S6)		Marl (F10) ( <b>LR</b>	K K, L)			Other (Explain i	ii Reiliaiks)	
Dark Suri	ace (Sr)								
<sup>3</sup> Indicators of	hydrophytic vegetation	on and we	etland hydrology mus	st be pre	sent, unl	ess distu	rbed or problematic.		
Restrictive L	ayer (if observed):								
Type:									
Depth (in	ches):						Hydric Soil Present?	Yes X No	
Remarks:									



Wetland CV-3 View facing north



Wetland CV-3 Soils

# Phase 1

# SITE PHOTOGRAPHS

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

Project/Site: CHPE	City/County: Putnam / Washington Sampling Date: 10/13/21
Applicant/Owner: TDI	State: NY Sampling Point: UPL CV-3
Investigator(s): J.Greaves, C. Scrivner	Section, Township, Range:
Landform (hillside, terrace, etc.): Hillslope Local	relief (concave, convex, none): Concave Slope %: 45
Subregion (LRR or MLRA): LRR R Lat: 43-43-2.98N	Long: 73-25-35.85W Datum: WGS 84
Soil Map Unit Name: VeB - Vergennes silty clay loam, 3 to 8 percent slopes	
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	
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 (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 Proposition (B2)	
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)	
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):	
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	evious 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: 2 (B)			
5 6		·		Percent of Dominant Species That Are OBL, FACW, or FAC:(A/B)			
7.				Prevalence Index worksheet:			
		=Total Cover		Total % Cover of: Multiply by:			
Sapling/Shrub Stratum (Plot size:)				OBL species 0 x 1 = 0			
1.				FACW species 0 x 2 = 0			
2				FAC species40 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' )		_ Total Gover		2 - Dominance Test is >50%			
	40	Vaa	FACIL				
1. Poa pratensis	40	Yes	FACU	3 - Prevalence Index is ≤3.0 <sup>1</sup>			
2. <u>Setaria pumila</u>	40	Yes	FAC	4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)			
3. Rubia peregrina	10	No	UPL				
4. Taraxacum officinale	5	<u>No</u>	FACU	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)			
<ul><li>5. Vicia cracca</li><li>6</li></ul>	5	No	UPL	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.			
7.				Definitions of Vegetation Strata:			
8.				Trace Washington Sin (7.0 pm) as asset in dispression			
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.			
<u>Woody Vine Stratum</u> (Plot size:				Woody vines – All woody vines greater than 3.28 ft in height.			
2.							
2				Hydrophytic			
4		· ——		Vegetation Present? Yes No X			
<b>4.</b>		T-1-1-0		rieseiit: iesNO			
	-	=Total Cover					
Remarks: (Include photo numbers here or on a separa	ate sheet.)						

Sampling Point: UPL CV-3

SOIL Sampling Point: UPL CV-3

oils <sup>3</sup> :
A 149B)
i, L, R) R K, L, R)
R K, L, K)
RR K, L, R)
/ILRA 149B)
145, 149B)
No X
<u> </u>
F () R //



**Upland CV-3 View facing northeast** 



**Upland CV-3 Soils** 

# Phase 1

## **SITE PHOTOGRAPHS**

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

Project/Site: CHPE	City/County: Putnam / Washington Sampling Date: 10/13/21
Applicant/Owner: TDI	State: NY Sampling Point: WET CW-1
Investigator(s): J.Greaves, C. Scrivner	Section, Township, Range:
Landform (hillside, terrace, etc.): Linear depression Local re	relief (concave, convex, none): Concave Slope %: 2
Subregion (LRR or MLRA): LRR R Lat: 43-42-54.19N	Long: 73-25-42.72W Datum: WGS 84
Soil Map Unit Name: VeB - Vergennes silty clay loam, 3 to 8 percent slopes	
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 problemat	<del></del>
SUMMARY OF FINDINGS – Attach site map showing sam	opling 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 CW-1
Remarks: (Explain alternative procedures here or in a separate report.) Palustrine Emergent Marsh - Cattail marsh. Edinger classification: Shallow E	Emergent Marsh dominated by cattail.
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	
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)  X Oxidized Rhizospheres o	
Drift Deposits (B3)  Presence of Reduced Iron	
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:	<u></u>
Surface Water Present? Yes No X Depth (inches):	
Water Table Present? Yes X No Depth (inches):	
Saturation Present? Yes X No Depth (inches):	Wetland Hydrology Present? Yes X No
(includes capillary fringe)	the state of the s
Describe Recorded Data (stream gauge, monitoring well, aerial photos, prev	vious inspections), if available:
Remarks:	
Tromance.	

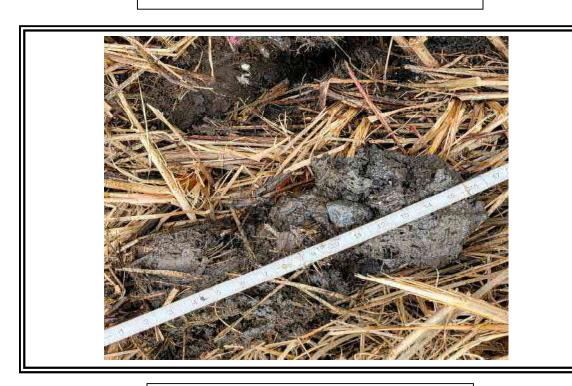
	Absolute	Dominant	Indicator				
Free Stratum (Plot size: 30' )	% Cover	Species?	Status	Dominance Test worksheet:			
· · · · · · · · · · · · · · · · · · ·							
				Number of Dominant Species That Are OBL, FACW, or FAC: 3 (A)			
				(1)			
·				Total Number of Dominant Species Across All Strata: 3 (B)			
				Species Across Air Strata.			
i				Percent of Dominant Species			
·				That Are OBL, FACW, or FAC: 100.0% (A/			
·				Prevalence Index worksheet:			
		=Total Cover		Total % Cover of: Multiply by:			
Sapling/Shrub Stratum (Plot size:15')				OBL species 95 x 1 = 95			
. Ulmus americana	3	Yes	FACW	FACW species 11 x 2 = 22			
. Cornus amomum	3	Yes	FACW	FAC species 0 x 3 = 0			
• <u></u>				FACU species 3 x 4 = 12			
				UPL species 0 x 5 = 0			
				Column Totals: 109 (A) 129 (			
·				Prevalence Index = B/A = 1.18			
· ·				Hydrophytic Vegetation Indicators:			
·	6	=Total Cover					
lorb Ctroture (Diet eizer El	6	= rotal Cover		1 - Rapid Test for Hydrophytic Vegetation			
lerb Stratum (Plot size: 5' )				X 2 - Dominance Test is >50%			
. Typha angustifolia	90	Yes	OBL	X 3 - Prevalence Index is ≤3.0 <sup>1</sup>			
. Lythrum salicaria	5	No	OBL	<ul> <li>4 - Morphological Adaptations<sup>1</sup> (Provide supporti data in Remarks or on a separate sheet)</li> </ul>			
Cornus amomum	5	No	FACW	Problematic Hydrophytic Vegetation¹ (Explain)			
l							
i				<sup>1</sup> Indicators of hydric soil and wetland hydrology must			
				present, unless disturbed or problematic.			
				Definitions of Vegetation Strata:			
				Trans Mandaglasta Ois (7.0 sa) as seed in the sa			
				Tree – Woody plants 3 in. (7.6 cm) or more in diame at breast height (DBH), regardless of height.			
0.							
				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 5.20 it (1 m) tail.			
2		·		Herb – All herbaceous (non-woody) plants, regardle			
	100	=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			
. Vitis aestivalis	2	No	FACU	height.			
Parthenocissus quinquefolia	1	No	FACU	Hydrophytic			
·				Hydrophytic Vegetation			
·				Present? Yes X No No			
	3	=Total Cover					

SOIL Sampling Point: WET CW-1

	ription: (Describe t	o the dep				or or co	onfirm the absence of	indicators.)	
Depth	Matrix			k Featur		2			
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks	
0-10	2.5Y 2.5/1	73	10YR 4/3	5	<u>C</u>	PL	Loamy/Clayey		
			10YR 5/6	20	<u> </u>	M		Prominent redox concentrations	
			10YR 2/1	2	<u>C</u>	<u>M</u>		Faint redox concentrations	
10-16	N 4/	50	10YR 6/6	10	<u>C</u>	M	Mucky Loam/Clay	Prominent redox concentrations	
			10YR 5/4	40	С	M		Prominent redox concentrations	
			-						
1- 0.0		<del></del>	5				21		
Hydric Soil I		etion, RM:	=Reduced Matrix, MS	3=Maske	ed Sand	Grains.		L=Pore Lining, M=Matrix.  or Problematic Hydric Soils <sup>3</sup> :	
Histosol			Polyvalue Belov	w Surfac	e (S8) (I	RR R		ck (A10) (LRR K, L, MLRA 149B)	
	ipedon (A2)		MLRA 149B)		)C (OO) (E			rairie Redox (A16) (LRR K, L, R)	
Black His			Thin Dark Surfa		(LRR R,	MLRA 1		cky Peat or Peat (S3) (LRR K, L, R)	
	n Sulfide (A4)		High Chroma S					e Below Surface (S8) ( <b>LRR K, L</b> )	
Stratified	Layers (A5)		Loamy Mucky N	∕lineral (	F1) (LRF	R K, L)	Thin Dar	k Surface (S9) (LRR K, L)	
Depleted	Below Dark Surface	(A11)	Loamy Gleyed I	Matrix (F	<del>-</del> 2)		Iron-Man	nganese Masses (F12) (LRR K, L, R)	
Thick Da	rk Surface (A12)		Depleted Matrix	(F3)			Piedmon	t Floodplain Soils (F19) ( <b>MLRA 149B</b> )	
Sandy M	ucky Mineral (S1)		X Redox Dark Sur	rface (F	6)		Mesic Sp	podic (TA6) ( <b>MLRA 144A, 145, 149B</b> )	
Sandy G	leyed Matrix (S4)		Depleted Dark S	Surface	(F7)		Red Pare	ent Material (F21)	
	edox (S5)		? Redox Depress		3)			allow Dark Surface (F22)	
	Matrix (S6)		Marl (F10) ( <b>LRF</b>	₹ K, L)			Other (Explain in Remarks)		
Dark Sur	face (S7)								
<sup>3</sup> Indicators of	hydrophytic vegetati	on and we	etland hydrology mus	t be pre	sent, unl	ess distu	urbed or problematic.		
	.ayer (if observed):								
Type:									
Depth (in	iches):		<del></del>				Hydric Soil Presen	t? Yes X No	
Remarks:									



Wetland CW-1 View facing southwest



Wetland CW-1 Soils

# Phase 1

## **SITE PHOTOGRAPHS**

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

Project/Site: CHPE	City/County: Putnam / Washington Sampling Date: 10/13/21
Applicant/Owner: TDI	State: NY Sampling Point: UPL CW-1
Investigator(s): J. Greaves, C. Scrivner	Section, Township, Range:
Landform (hillside, terrace, etc.): Hillslope Local	relief (concave, convex, none): Convex Slope %: 25
Subregion (LRR or MLRA): LRR R Lat: 43-42-54.00N	Long: 73-25-42.69W Datum: WGS 84
Soil Map Unit Name: VeB - Vergennes silty clay loam, 3 to 8 percent slopes	
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	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 the control of th	
Drift Deposits (B3) Presence of Reduced Iro	• • • • • • • • • • • • • • • • • • • •
Algal Mat or Crust (B4)Recent Iron Reduction in	· · · · · · · · · · · · · · · · · · ·
Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Thin Muck Surface (C7) Other (Explain in Remark	<u> </u>
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No X Depth (inches):  Water Table Present? Yes No X Depth (inches):	
Saturation Present? Yes No X Depth (inches):	
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	vious inspections), if available:
Remarks:	_

	Abaaluta	Dominant	Indicator	
ree Stratum (Plot size:30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
· <u> </u>				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/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 10 x 3 = 30
				FACU species 85 x 4 = 340
				UPL species 5 x 5 = 25
				Column Totals: 100 (A) 395 (E
				Prevalence Index = B/A = 3.95
				Hydrophytic Vegetation Indicators:
		=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
erb Stratum (Plot size: 5' )				2 - Dominance Test is >50%
Poa pratensis	75	Yes	FACU	3 - Prevalence Index is ≤3.0 <sup>1</sup>
Setaria pumila	10	No	FAC	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
Taraxacum officinale	10	No	FACU	data in Remarks or on a separate sheet)
Daucus carota	5	No	UPL	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
				Indicators of hydric call and watland hydrology must
				<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.
D				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
	100	=Total Cover		of size, and woody plants less than 3.28 ft tall.
oody Vine Stratum (Plot size: 30')				Woody vines – All woody vines greater than 3.28 ft in
				height.
				Undrankatia
				Hydrophytic Vegetation
				Present?
·		=Total Cover		

SOIL Sampling Point: UPL CW-1

		the dep				or or co	onfirm the absence of indicators.)	
Depth	Matrix			x Featur		. 2		
(inches)	Color (moist)	%	Color (moist)	<u>%</u>	Type <sup>1</sup>	Loc <sup>2</sup>	Texture Remarks	—
0-4	10YR 2/1	100					Sandy	
4-16	10YR 4/2	100					Sandy	
							<del></del>	_
							· ·	
							<del></del>	_
	ncentration, D=Deple	etion, RM	=Reduced Matrix, M	S=Mask	ed Sand (	Grains.	<sup>2</sup> Location: PL=Pore Lining, M=Matrix.	
Hydric Soil Ir Histosol (			Polyvalue Belo	w Surfac	o (S9) (I	DD D	Indicators for Problematic Hydric Soils <sup>3</sup> : 2 cm Muck (A10) (LRR K, L, MLRA 149B)	
	pedon (A2)		MLRA 149B		e (36) (L	KK K,	Coast Prairie Redox (A16) (LRR K, L, R)	
Black His			Thin Dark Surfa	,	(LRR R,	MLRA 1		)
	Sulfide (A4)		High Chroma S				Polyvalue Below Surface (S8) (LRR K, L)	
Stratified	Layers (A5)		Loamy Mucky I	Mineral (	F1) (LRR	K, L)	Thin Dark Surface (S9) (LRR K, L)	
	Below Dark Surface	(A11)	Loamy Gleyed	,	F2)		Iron-Manganese Masses (F12) (LRR K, L, R	•
	k Surface (A12)		Depleted Matrix	, ,	·O)		Piedmont Floodplain Soils (F19) (MLRA 149	
	ucky Mineral (S1) eyed Matrix (S4)		Redox Dark Su Depleted Dark				Mesic Spodic (TA6) (MLRA 144A, 145, 149E Red Parent Material (F21)	5)
Sandy Re			Redox Depress		` '		Very Shallow Dark Surface (F22)	
	Matrix (S6)		Marl (F10) (LR		2)		Other (Explain in Remarks)	
Dark Surf								
		on and we	etland hydrology mus	st be pre	esent, unle	ess distu	urbed or problematic.	
	ayer (if observed):							
Type:	.1						Halis Ocil Passasia	
Depth (in	cnes):						Hydric Soil Present? Yes No _X	
Remarks:								



**Upland CW-1 View facing southwest** 



**Upland CW-1 Soils** 

Phase 1

# SITE PHOTOGRAPHS

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

Project/Site: CHPE	City/County: Putnam / Washington Sampling Date: 10/13/21
Applicant/Owner: TDI	State: NY Sampling Point: WET CX-6
Investigator(s): J. Greaves, C. Scrivner	Section, Township, Range:
	I relief (concave, convex, none): Concave Slope %: 3
Subregion (LRR or MLRA): LRR R Lat: 43-42-51.25N	Long: 73-25-45.57W Datum: WGS 84
Soil Map Unit Name: VeC - Vergennes silty clay loam, 6 to 12 percent slop	
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 Hydrologynaturally problems	<del></del>
	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 CX-6
Remarks: (Explain alternative procedures here or in a separate report.) Palustrine Emergent Marsh. Edinger classification: Shallow Emergent Marsh.	sh.
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)
X Saturation (A3) Marl Deposits (B15)	Dry-Season Water Table (C2)
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 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 No X Depth (inches)	):
Water Table Present? Yes No X Depth (inches)	):
Saturation Present? Yes X No Depth (inches)	: 0 Wetland Hydrology Present? YesX No
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	evious inspections), if available:
Remarks:	

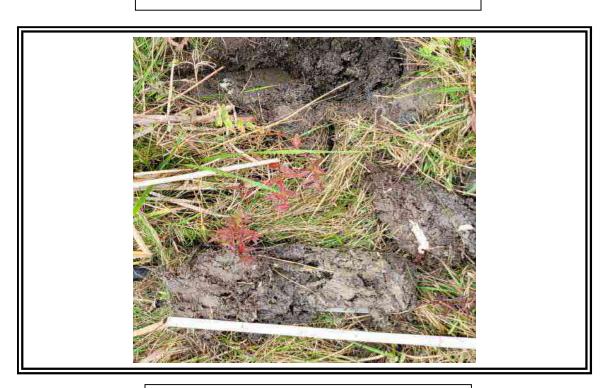
	Absolute	Dominant	Indicator				
ree Stratum (Plot size: 30')	% Cover	Species?	Status	Dominance Test worksheet:			
·				Number of Dominant Species			
·		<del></del>		That Are OBL, FACW, or FAC: 2 (A)			
·		· ——		Total Number of Dominant			
·				Species Across All Strata: 2 (B)			
·				Percent of Dominant Species			
				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 species45 x 1 =45			
. Cornus racemosa	2	No	FAC	FACW species 40 x 2 = 80			
				FAC species 7 x 3 = 21			
				FACU species 2 x 4 = 8			
				UPL species 8 x 5 = 40			
				Column Totals: 102 (A) 194 (I			
				Prevalence Index = B/A = 1.90			
				Hydrophytic Vegetation Indicators:			
	2	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation			
lerb Stratum (Plot size:5' )				X 2 - Dominance Test is >50%			
. Lythrum salicaria	35	Yes	OBL	X 3 - Prevalence Index is ≤3.0 <sup>1</sup>			
. Agrostis gigantea	20	Yes	FACW	4 - Morphological Adaptations <sup>1</sup> (Provide supportin			
. Phragmites australis	15	No	FACW	data in Remarks or on a separate sheet)			
. Typha angustifolia	5	No	OBL	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)			
. Scirpus atrovirens	5	No	OBL	<sup>1</sup> Indicators of hydric soil and wetland hydrology must			
. Symphyotrichum novae-angliae	5	No	FACW	present, unless disturbed or problematic.			
. Cornus racemosa	5	No	FAC	Definitions of Vegetation Strata:			
. Rubia peregrina	5	No	UPL	Tree Mondy plants 2 in (7.5 cm) or more in diame			
. Artemisia vulgaris	2	No	UPL	Tree – Woody plants 3 in. (7.6 cm) or more in diame at breast height (DBH), regardless of height.			
Symphyotrichum ericoides	1	No	FACU	Continued by Manda plants land then 2 in DDII			
1. Vicia cracca	1	No	UPL	Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.			
2. Cichorium intybus	1	No	FACU				
	100	=Total Cover		<b>Herb</b> – All herbaceous (non-woody) plants, regardles of size, and woody plants less than 3.28 ft tall.			
Voody Vine Stratum (Plot size: 30' )		•					
				<b>Woody vines</b> – All woody vines greater than 3.28 ft i height.			
				no.gm.			
·		· ——		Hydrophytic			
·		<del></del>		Vegetation Present? Yes X No			
·		Tatal Causa		Present? Yes X No No			
		=Total Cover					

SOIL Sampling Point: WET CX-6

		o the dep				or or co	nfirm the absence of	indicators.)
Depth (inches)	Matrix	0/		x Feature		Loc <sup>2</sup>	Taytura	Domostro
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type <sup>1</sup>		Texture	Remarks
0-6 6-16	10YR 4/1 5Y 5/1	90 70	2.5YR 3/6 10YR 5/4	<u>10</u> 20	<u> </u>	PL M	Loamy/Clayey  Musky Loam/Clay	Prominent redox concentrations
0-10	515/1				<u>C</u>	IVI	Mucky Loam/Clay	Prominent redox concentrations
			10YR 4/6	10	С	M		Prominent redox concentrations
								_
								_
1			Dallar IMaca M			<u> </u>	21	L. B Living M. Marti
Hydric Soil	oncentration, D=Deple	etion, RIVI	=Reduced Matrix, Mi	5=IVIASK	ea Sana	Grains.		L=Pore Lining, M=Matrix.  or Problematic Hydric Soils <sup>3</sup> :
Histosol			Polyvalue Belov	w Surfac	ce (S8) ( <b>L</b>	.RR R.		ck (A10) ( <b>LRR K, L, MLRA 149B</b> )
	pipedon (A2)		MLRA 149B)		( ) (	,		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	cky Peat or Peat (S3) (LRR K, L, R)
Hydroge	en Sulfide (A4)		High Chroma S	ands (S	11) (LRF	k K, L)	Polyvalu	e Below Surface (S8) (LRR K, L)
	d Layers (A5)		Loamy Mucky N			R K, L)		k Surface (S9) (LRR K, L)
	d Below Dark Surface	(A11)	Loamy Gleyed		<del>-</del> 2)			nganese Masses (F12) (LRR K, L, R)
	ark Surface (A12)		X Depleted Matrix	. ,	<b>C</b> )			it Floodplain Soils (F19) (MLRA 149B)
	Mucky Mineral (S1) Gleyed Matrix (S4)		Redox Dark Su  Depleted Dark					podic (TA6) ( <b>MLRA 144A, 145, 149B</b> ) ent Material (F21)
	Redox (S5)		? Redox Depress					allow Dark Surface (F22)
	Matrix (S6)		Marl (F10) (LRI		,			xplain in Remarks)
Dark Su	rface (S7)						<del></del>	
	f hydrophytic vegetation	on and w	etland hydrology mus	t be pre	sent, unl	ess distu	rbed or problematic.	
	Layer (if observed):							
Type:								
Depth (ii	nches):						Hydric Soil Presen	t? Yes X No
Remarks:								



Wetland CX-6 View facing north



Wetland CX-6 Soils

# Phase 1

# SITE PHOTOGRAPHS

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

Project/Site: CHPE	City/County: Putnam / Washington Sampling Date: 10/13/21					
Applicant/Owner: TDI	State: NY Sampling Point: UPL CX-6					
Investigator(s): J. Greaves, C. Scrivner	Section, Township, Range:					
Landform (hillside, terrace, etc.): Hillslope Local	relief (concave, convex, none): Concave Slope %: 50					
Subregion (LRR or MLRA): LRR R Lat: 43-42-51.23N	Long: 73-25-45.19W Datum: WGS 84					
Soil Map Unit Name: VeC - Vergennes silty clay loam, 6 to 12 percent slop						
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes X No (If no, explain in Remarks.)					
	<u> </u>					
Are Vegetation, Soil, or Hydrologysignificantly disturb						
Are Vegetation, Soil, or Hydrologynaturally problems						
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:					
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 (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 (						
	Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9)					
Drift Deposits (B3) Presence of Reduced Iro	· ,					
Algal Mat or Crust (B4)  Iron Deposits (B5)  Recent Iron Reduction ir  Thin Muck Surface (C7)	Recent Iron Reduction in Tilled Soils (C6)  Geomorphic Position (D2)  This Music Surface (C7)  Shallow Assistant (D2)					
Inundation Visible on Aerial Imagery (B7)  Other (Explain in Remark	· · · · · ·					
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)					
Field Observations:	TAO NOUNA TOUR (50)					
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)						
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:(A)					
3. 4.				Total Number of Dominant Species Across All Strata: 2 (B)					
<ul><li>5.</li><li>6.</li></ul>		- <u> </u>		Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0% (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. Juniperus virginiana	2	No	FACU	FACW species 5 x 2 = 10					
2. Cornus racemosa	2	No	FAC	FAC species 2 x 3 = 6					
3				FACU species 62 x 4 = 248					
4				UPL species35 x 5 =175					
5				Column Totals: 104 (A) 439 (B)					
6.				Prevalence Index = B/A = 4.22					
7.				Hydrophytic Vegetation Indicators:					
	4	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation					
Herb Stratum (Plot size: 5' )		•		2 - Dominance Test is >50%					
1. Lolium pratense	40	Yes	FACU	3 - Prevalence Index is ≤3.0 <sup>1</sup>					
2. Lotus corniculatus	15	Yes	FACU	4 - Morphological Adaptations <sup>1</sup> (Provide supporting					
3. 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. Solidago canadensis	5	No	FACU	<u> </u>					
6. Artemisia vulgaris	5	No	UPL	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.					
7. Symphyotrichum novae-angliae	5	No	FACW	Definitions of Vegetation Strata:					
8. Daucus carota	5	No	UPL	-					
9. Asclepias syriaca	5	No	UPL	<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	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	=10lai Covei							
				<b>Woody vines</b> – All woody vines greater than 3.28 ft in					
				height.					
2.		- —		Hydrophytic					
3.		- ——		Vegetation					
4				Present?					
		_=Total Cover							
Remarks: (Include photo numbers here or on a separate sheet.)									

Sampling Point:

UPL CX-6

SOIL Sampling Point: UPL CX-6

		the dep				tor or co	onfirm the absence of indicate	ators.)	
Depth	Matrix	0/		x Featur		2	<b>T</b>	D	
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks	
0-4	10YR 3/2	100					Sandy		
4-16	10YR 4/2	90	10YR 5/3	10	С	М	Mucky Loam/Clay	Faint redox concentrations	
<sup>1</sup> Type: C=Co	ncentration, D=Deple	etion. RM	=Reduced Matrix. M	S=Mask	ed Sand	Grains.	<sup>2</sup> Location: PL=Poi	re Lining, M=Matrix.	
Hydric Soil Ir		,	,					blematic Hydric Soils <sup>3</sup> :	
Histosol (	A1)		Polyvalue Belo	w Surfac	ce (S8) ( <b>L</b>	RR R,	2 cm Muck (A	10) (LRR K, L, MLRA 149B)	
Histic Epi	pedon (A2)		MLRA 149B)	,				Redox (A16) ( <b>LRR K, L, R</b> )	
Black His			Thin Dark Surfa						
	Sulfide (A4)		High Chroma S					ow Surface (S8) (LRR K, L)	
	Layers (A5)	(0.4.4)	Loamy Mucky N			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 (F2)					Iron-Manganese Masses (F12) (LRR K, L, R)				
	Thick Dark Surface (A12) Depleted Matrix (F3) Sandy Mucky Mineral (S1) Redox Dark Surface (F6)				Piedmont Floodplain Soils (F19) (MLRA 149B)  Mesic Spodic (TA6) (MLRA 144A, 145, 149B)				
	eyed Matrix (S4)	Depleted Dark Surface (F7)					Red Parent Material (F21)		
	andy Redox (S5)  Redox Depressions (F8)					Very Shallow Dark Surface (F22)			
	Matrix (S6)		Marl (F10) (LR				Other (Explain		
Dark Surf	ace (S7)		· <del></del>				<del></del>		
	hydrophytic vegetatio	on and we	etland hydrology mus	st be pre	sent, unl	ess distu	rbed or problematic.		
	ayer (if observed):								
Type:									
Depth (in	ches):						Hydric Soil Present?	Yes No X	
Remarks:									



**Upland CX-6 View facing north/northeast** 



**Upland CX-6 Soils** 

# Phase 1

# **SITE PHOTOGRAPHS**

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

Project/Site: CHPE City/County: Putnam / Washington Sampling Date: 10/13/21
Applicant/Owner: TDI State: NY Sampling Point: WET CY-4
Investigator(s): J. Greaves, C. Scrivner Section, Township, Range:
Landform (hillside, terrace, etc.): Hillslope Local relief (concave, convex, none): Concave Slope %: 5
Subregion (LRR or MLRA): LRR R Lat: 43-42-43.56N Long: 73-25-51.08W Datum: WGS 84
Soil Map Unit Name: VeC - Vergennes silty clay loam, 6 to 12 percent slopes 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 disturbed? Are "Normal Circumstances" present? Yes X No
Are Vegetation, Soil, or Hydrologynaturally problematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes X No Is the Sampled Area
Hydric Soil Present?  Yes X No within a Wetland?  Yes X No
Wetland Hydrology Present?  Yes X No If yes, optional Wetland Site ID: Near Flag CY-4
Palustrine Emergent Marsh - Cattail Marsh. Edinger classification: Shallow Emergent Marsh. This community is within a linear depression. This community continues between Wetland flags CY-1 to CY-8.
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)
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 (C1) Crayfish Burrows (C8)
Sediment Deposits (B2)  X Oxidized Rhizospheres on Living Roots (C3)  Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B3) Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4)Recent Iron Reduction in Tilled Soils (C6)X Geomorphic Position (D2)
Iron Deposits (B5) Thin Muck Surface (C7) Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8) FAC-Neutral Test (D5)
Field Observations:
Surface Water Present? Yes No _X Depth (inches):
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, previous 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:3(B)			
5		<u> </u>		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 98 x 1 = 98			
1. Cornus amomum	10	Yes	FACW	FACW species 12 x 2 = 24			
2. Cornus racemosa	5	Yes	FAC	FAC species 5 x 3 = 15			
3. Lonicera morrowii	2	No	FACU	FACU species 2 x 4 = 8			
4.				UPL species0 x 5 =0			
5.				Column Totals: 117 (A) 145 (B)			
6.				Prevalence Index = B/A = 1.24			
7.		· ——		Hydrophytic Vegetation Indicators:			
	17	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation			
Herb Stratum (Plot size: 5' )		_ Total Gover		X 2 - Dominance Test is >50%			
A Turks survey (folia)	00	Vaa	OBL				
1. Typha angustifolia		Yes	OBL	X 3 - Prevalence Index is ≤3.0¹			
	10	No No	OBL	4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)			
<ul><li>3. <u>Symphyotrichum novae-angliae</u></li><li>4.</li></ul>		No	FACW_	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	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:)  1.				Woody vines – All woody vines greater than 3.28 ft in			
				height.			
2. 3.				Hydrophytic			
				Vegetation No. No.			
4				Present?			
		=Total Cover					
Remarks: (Include photo numbers here or on a separ	ate sheet.)						

Sampling Point: WET CY-4

SOIL Sampling Point: WET CY-4

	ription: (Describe t	o the de				or or co	onfirm the absence of in	ndicators.)
Depth	Matrix			x Feature		. 2		
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-1	10YR 3/2	100					Muck	
1-7	10YR 3/1	100					Mucky Loam/Clay	
7-16	N 4/	65	10YR 4/3	5	С	PL	Mucky Loam/Clay	Prominent redox concentrations
			10YR 5/3	30	<u>C</u>	M		Prominent redox concentrations
								<del></del> ,
-		—						
	oncentration, D=Depl	etion, RM	=Reduced Matrix, MS	S=Maske	ed Sand	Grains.		=Pore Lining, M=Matrix.
Hydric Soil I								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 His	oipedon (A2)		MLRA 149B) Thin Dark Surfa		/I DD D	MI DA		hirie 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) ( <b>LRR K, L</b> )
	Below Dark Surface	(A11)	X Loamy Gleyed			,		ganese Masses (F12) (LRR K, L, R)
Thick Da	rk Surface (A12)		Depleted Matrix	۲ (F3)			Piedmont	Floodplain Soils (F19) (MLRA 149B)
Sandy M	lucky Mineral (S1)		Redox Dark Su	rface (F	6)		Mesic Spo	odic (TA6) (MLRA 144A, 145, 149B)
	leyed Matrix (S4)		Depleted Dark					nt Material (F21)
	edox (S5)		Redox Depress		3)			low Dark Surface (F22)
	Matrix (S6)		Marl (F10) ( <b>LRI</b>	K K, L)			Other (Exp	plain in Remarks)
Dark Sur	face (S7)							
<sup>3</sup> Indicators of	hydrophytic vegetati	on and w	etland hydrology mus	st be pre	sent. unl	ess distu	urbed or problematic.	
	ayer (if observed):		,		., .			
Туре:								
Depth (ir	nches):						Hydric Soil Present	? Yes X No
Remarks:								



Wetland CY-4 View facing southwest



Wetland CY-4 Soils

# Phase 1

# SITE PHOTOGRAPHS

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

Project/Site: CHPE	City/County: Putnam / Washington Sampling Date: 10/13/21
Applicant/Owner: TDI	State: NY Sampling Point: UPL CY-4
Investigator(s): J. Greaves, C. Scrivner	Section, Township, Range:
Landform (hillside, terrace, etc.): Hillslope Local	relief (concave, convex, none): Convex Slope %: 10
Subregion (LRR or MLRA): LRR R Lat: 43-42-43.38N	Long: 73-25-51.03W Datum: WGS 84
Soil Map Unit Name: VeC - Vergennes silty clay loam, 6 to 12 percent slop	
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	
	npling point locations, transects, important features, etc.
OUMMANT OF THIS HOUSE ACCOUNTING SAID	
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	
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 Reduced levels (B2)	
Drift Deposits (B3) Presence of Reduced Iro	<u> </u>
Algal Mat or Crust (B4)  Iron Deposits (B5)  Recent Iron Reduction ir  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)	FAC-Neutral Test (D5)
	TAC-Neutral Test (D3)
Field Observations:	
Surface Water Present? Yes No X Depth (inches):  Water Table Present? Yes No X Depth (inches):	
Water Table Present? Yes No X Depth (inches): Saturation Present? Yes No X Depth (inches):	
(includes capillary fringe)	welland hydrology Fresent: TesNo
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	
Describe Necorded Data (Stream gauge, monitoring well, aerial photos, pre	inspections), ii available.
Remarks:	
Tromaine.	

	Abaaluta	Dominant	Indicator	Sampling Point: UPL CY-4
ree Stratum (Plot size:30')	Absolute % Cover	Dominant Species?	Indicator 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/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 0 x 3 = 0
				FACU species 85 x 4 = 340
				UPL species 15 x 5 = 75
				Column Totals: 100 (A) 415 (E
				Prevalence Index = B/A = 4.15
				Hydrophytic Vegetation Indicators:
		=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
erb Stratum (Plot size: 5' )				2 - Dominance Test is >50%
Lolium pratense	70	Yes	FACU	3 - Prevalence Index is ≤3.0 <sup>1</sup>
Poa pratensis	10	No	FACU	4 - Morphological Adaptations <sup>1</sup> (Provide supporti
Artemisia vulgaris	5	No	UPL	data in Remarks or on a separate sheet)
Daucus carota	5	No	UPL	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
Lotus corniculatus	5	No	FACU	1 Indicators of hydric call and watland hydrology must
Centaurea stoebe	5	No	UPL	<sup>1</sup> Indicators of hydric soil and wetland hydrology must present, unless disturbed or problematic.
				Definitions of Vegetation Strata:
				Tree Meady plants 2 in (7.0 am) as some in discussion
				Tree – Woody plants 3 in. (7.6 cm) or more in diamet at breast height (DBH), regardless of height.
).				Continuate the Woods plants less than 2 in DDI.
				Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
2.				Harle All harbarran (annual Nabata annualla
	100	=Total Cover		<b>Herb</b> – All herbaceous (non-woody) plants, regardles 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		Tresent: TesNoX_
		= I Ulai Guvei		

SOIL Sampling Point: UPL CY-4

		the dep				or or co	onfirm the absence of indicators.)	
Depth	Matrix			x Featur		. 2		
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type <sup>1</sup>	Loc <sup>2</sup>	Texture Remarks	—
0-2	10YR 2/2	100					Sandy	
2-16	10YR 4/3	100					Sandy	
								_
								_
								—
								_
								_
								_
								—
1			Dadward Matrix M				21 and in Discouring M. Markin	_
Hydric Soil Ir	ncentration, D=Deple	tion, Rivi	=Reduced Matrix, M	S=IVIASK	ea Sana (	Jrains.	<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)	
	pedon (A2)		MLRA 149B		() (-	,	Coast Prairie Redox (A16) (LRR K, L, R)	
Black His			Thin Dark Surfa	•	(LRR R,	MLRA 1		
Hydrogen	Sulfide (A4)		High Chroma S	Sands (S	11) (LRR	K, L)	Polyvalue Below Surface (S8) (LRR K, L)	
Stratified	Layers (A5)		Loamy Mucky I	Mineral (	F1) (LRR	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)	ı
Thick Dar	rk Surface (A12)		Depleted Matrix	x (F3)			Piedmont Floodplain Soils (F19) (MLRA 149E	3)
Sandy Mu	ucky Mineral (S1)		Redox Dark Su	ırface (F	6)		Mesic Spodic (TA6) (MLRA 144A, 145, 149B	)
Sandy Gl	eyed Matrix (S4)		Depleted Dark	Surface	(F7)		Red Parent Material (F21)	
Sandy Re			Redox Depress		3)		Very Shallow Dark Surface (F22)	
	Matrix (S6)		Marl (F10) ( <b>LR</b>	<b>R K, L</b> )			Other (Explain in Remarks)	
Dark Surf	face (S7)							
<sup>3</sup> Indicators of	hydrophytic vegetation	on and we	etland hydrology mus	st be pre	sent, unle	ess distu	urbed or problematic.	
	ayer (if observed):							
Type:								
Depth (in	ches):						Hydric Soil Present? Yes No _X	
Remarks:								



**Upland CY-4 View facing southwest** 



**Upland CY-4 Soils** 

# Phase 1

# **SITE PHOTOGRAPHS**

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

Project/Site: CHPE	City/County: Putnam / Washington Sampling Date: 10/13/21
Applicant/Owner: TDI	State: NY Sampling Point: WET CY-10
Investigator(s): J. Greaves, C. Scrivner	Section, Township, Range:
Landform (hillside, terrace, etc.): Hillslope Local r	relief (concave, convex, none): Convex Slope %: 10
Subregion (LRR or MLRA): LRR R Lat: 43-42-39.71N	Long: 73-25-54.05W Datum: WGS 84
Soil Map Unit Name: VeC - Vergennes silty clay loam, 6 to 12 percent slope	
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 CY-10
Palustrine Emergent Marsh - purple loosestrife marsh. Edinger classification CY-9 to CY-11 consists of this community.	n: Shallow Emergent Marsh / Purple Loosestrife Marsh. From wetland flags
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	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	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) X 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):	3
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: Ground water seep at flag CY-12 feeds intermittent Stream channel portion	of wetland CY (from flags 12 to 9).
Ground water soop at mag of 12 reeds intermitted to start shall be ported.	or worlding of (norm hago 12 to o).

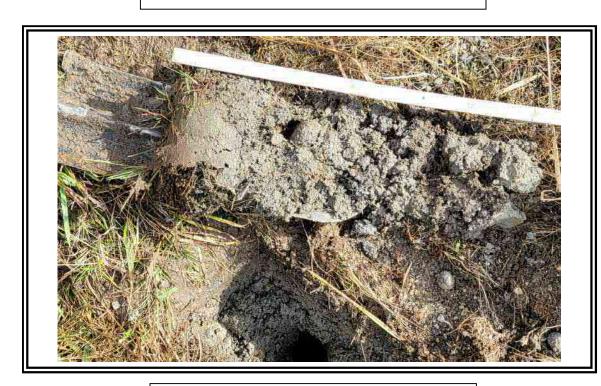
	Absolute	Dominant	Indicator	
ree Stratum (Plot size:30')	% Cover	Species?	Status	Dominance Test worksheet:
				Number of Dominant Species
				That Are OBL, FACW, or FAC:3 (A)
				Total Number of Dominant
				Species Across All Strata: 3 (B)
				Branch (Branisca) Orași
				Percent of Dominant Species 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 100 x 1 = 100
				FACW species 0 x 2 = 0
				FAC species 0 x 3 = 0
				FACU species 0 x 4 = 0
				UPL species 0 x 5 = 0
				Column Totals: 100 (A) 100 (E
				Prevalence Index = B/A = 1.00
				Hydrophytic Vegetation Indicators:
		=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
erb Stratum (Plot size: 5' )				X 2 - Dominance Test is >50%
	60	Yes	OBL	X 3 - Prevalence Index is ≤3.0 <sup>1</sup>
Typha angustifolia	20	Yes	OBL	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
Carex Iurida	20	Yes	OBL	data in Remarks or on a separate sheet)
Gardx faired		103	OBL	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
·				<u> </u>
·				<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
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')				Woody vines – All woody vines greater than 3.28 ft in
				height.
				Hydrophytic
				Vegetation Present? Yes X No
		=Total Cover		· · · · · - · · -
		- I Olai Oovoi		

SOIL Sampling Point: WET CY-10

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)										
Depth	Matrix			x Feature						
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks		
0-2	10YR 2/1	98	5YR 3/4	2	С	PL	Loamy/Clayey	Prominent redox concentrations		
2-13	5Y 4/1	70	10YR 4/6	10	<u>C</u>	<u>M</u>	Sandy	Prominent redox concentrations		
			10YR 4/4	20	С	M		Prominent redox concentrations		
13-17	2.5Y 4/1	93	10YR 5/8	5	<u>C</u>	M	Sandy	Prominent redox concentrations		
			10YR 2/1	2	С	М		Distinct redox concentrations		
								_		
1			Dadward Matrix M			0	214: DI	Describing M. Matrix		
Hydric Soil I	ncentration, D=Deple	euon, Rivi	=Reduced Matrix, MS	5=IVIASK	ed Sand	Grains.		_=Pore Lining, M=Matrix.  or Problematic Hydric Soils <sup>3</sup> :		
Histosol			Polyvalue Belov	w Surfac	ce (S8) ( <b>L</b>	.RR R.		ck (A10) ( <b>LRR K, L, MLRA 149B</b> )		
	ipedon (A2)		MLRA 149B)		, , ,	,		airie Redox (A16) (LRR K, L, R)		
Black His	stic (A3)		Thin Dark Surfa	ace (S9)	(LRR R,	MLRA 1	<b>49B</b> ) 5 cm Mu	cky Peat or Peat (S3) (LRR K, L, R)		
Hydrogei	n Sulfide (A4)		High Chroma S	ands (S	11) (LRR	k K, L)	Polyvalue	e Below Surface (S8) (LRR K, L)		
Stratified	Layers (A5)		Loamy Mucky N	√lineral (	F1) (LRF	R K, L)	Thin Dar	k Surface (S9) (LRR K, L)		
	Below Dark Surface	(A11)	Loamy Gleyed I		-2)			Iron-Manganese Masses (F12) (LRR K, L, R)		
	rk Surface (A12)		Depleted Matrix					t Floodplain Soils (F19) (MLRA 149B)		
	ucky Mineral (S1)		Redox Dark Su					podic (TA6) (MLRA 144A, 145, 149B)		
	leyed Matrix (S4)		Depleted Dark S				Red Parent Material (F21)			
X Sandy Re	, ,		Redox Depress Marl (F10) (LRF		3)		Very Shallow Dark Surface (F22) Other (Explain in Remarks)			
	face (S7)		Warr (i 10) (ER	· ι · · · · · · · · · · · · · · · · · ·				xpiair iii remarks)		
Baik Gai	1400 (07)									
<sup>3</sup> Indicators of	hydrophytic vegetati	on and we	etland hydrology mus	st be pre	sent, unl	ess distu	rbed or problematic.			
Restrictive L	ayer (if observed):									
Type:										
Depth (in	nches):						Hydric Soil Presen	t? Yes X No		
Remarks:										



Wetland CY-10 View facing southwest



Wetland CY-10 Soils

Phase 1

# SITE PHOTOGRAPHS

## WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: CHPE	City/County: Putnam / Washington Sampling Date: 10/13/21					
Applicant/Owner: TDI	State: NY Sampling Point: UPL CY-10					
Investigator(s): J. Greaves, C. Scrivner	Section, Township, Range:					
	relief (concave, convex, none): Concave Slope %: 25					
Subregion (LRR or MLRA): LRR R Lat: 43-42-39.68N	Long: 73-25-53.9"W Datum: WGS 84					
Soil Map Unit Name: VeC - Vergennes silty clay loam, 6 to 12 percent slope						
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 samp						
Hydrophytic Vegetation Present?         Yes         No         X           Hydric Soil Present?         Yes         X         No	Is the Sampled Area within a Wetland?  Yes No _X					
Wetland Hydrology Present? Yes No _X	If yes, optional Wetland Site ID:					
HYDROLOGY						
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)					
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)					
Surface Water (A1) Water-Stained Leaves (E						
High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)					
Saturation (A3) Marl Deposits (B15)	Dry-Season Water Table (C2)					
Water Marks (B1) Hydrogen Sulfide Odor (	<u> </u>					
Sediment Deposits (B2)  Oxidized Rhizospheres of						
Presence of Reduced Iro	<u> </u>					
Algal Mat or Crust (B4)  Recent Iron Reduction in  This May be 2 (con (O7))						
Iron Deposits (B5)  — Thin Muck Surface (C7)  Other (Fundamen Paradal Incompany (B7)	<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):  Water Table Present? Yes No X Depth (inches):						
Water Table Present?  Yes No X Depth (inches):  Saturation Present?  Yes No X Depth (inches):						
(includes capillary fringe)	Welland Hydrology Freschi.					
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:			
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				Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)			
7				Prevalence Index worksheet:			
		=Total Cover		Total % Cover of: Multiply by:			
Sapling/Shrub Stratum (Plot size:15')				OBL species 5 x 1 = 5			
1				FACW species 0 x 2 = 0			
2.				FAC species10 x 3 =30			
3.				FACU species 85 x 4 = 340			
4				UPL species 0 x 5 = 0			
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%			
1. Lolium pratense	30	Yes	FACU	3 - Prevalence Index is ≤3.0 <sup>1</sup>			
2. Poa pratensis	30	Yes	FACU	4 - Morphological Adaptations <sup>1</sup> (Provide supporting			
3. Lotus corniculatus	10	No	FACU	data in Remarks or on a separate sheet)			
4. Setaria pumila	10	No	FAC	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)			
5. Cichorium intybus	10	No	FACU	- Indicators of hydric soil and wetland hydrology must be			
6. Symphyotrichum ericoides	5	No	FACU	present, unless disturbed or problematic.			
7. Lythrum salicaria	5	No	OBL	Definitions of Vegetation Strata:			
8.				Tara Mandada Sir (70 and an anais diamata			
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.				<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 Vegetation			
4.				Present? Yes No X			
		=Total Cover					
Remarks: (Include photo numbers here or on a separa	ate sheet.)						
(manas prote names of the core	210 01100111						

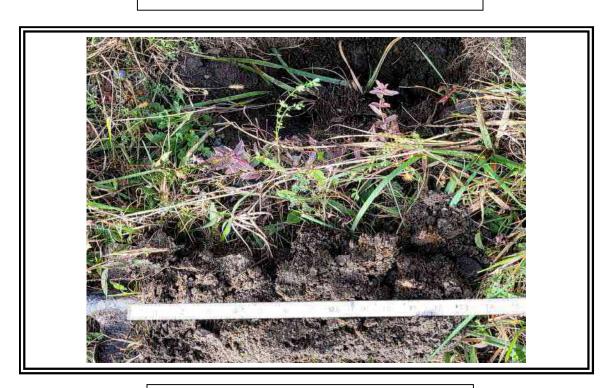
Sampling Point: UPL CY-10

SOIL Sampling Point: UPL CY-10

		o the dep				or or co	nfirm the absence of in	dicators.)		
Depth	Matrix			x Featur		2	T. (	D I .		
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks		
0-1	10YR 2/1	100					Sandy			
1-16	2.5Y 3/1	65	2.5YR 3/6	30	С	<u>M</u>	Sandy	Prominent redox concentrations		
			10YR 5/6	5	С	М		Prominent redox concentrations		
								_		
	oncentration, D=Depl	etion, RM	=Reduced Matrix, MS	S=Mask	ed Sand	Grains.		=Pore Lining, M=Matrix.		
Hydric Soil I								Problematic Hydric Soils <sup>3</sup> :		
Histosol			Polyvalue Belov		ce (S8) ( <b>L</b>	.RR R,		k (A10) (LRR K, L, MLRA 149B)		
Black Hi	oipedon (A2)		MLRA 149B) Thin Dark Surfa		/I DD D	MI DA 1		irie Redox (A16) (LRR K, L, R)		
	n Sulfide (A4)		High Chroma S				49B)5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Polyvalue Below Surface (S8) (LRR K, L)			
	Layers (A5)		Loamy Mucky M				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	k (F3)			Piedmont Floodplain Soils (F19) (MLRA 149B)			
Sandy M	lucky Mineral (S1)		Redox Dark Su	rface (F	6)		Mesic Spodic (TA6) (MLRA 144A, 145, 149B)			
Sandy G	leyed 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>LR</b> l	R K, L)			Other (Explain in Remarks)			
Dark Sui	rface (S7)									
<sup>3</sup> Indicators of	f hydrophytic vegetati	on and w	etland hydrology mus	st he nre	sent unl	ess distru	rhed or problematic			
	Layer (if observed):	on and w	ctiana nyarology mac	ot be pre	Joint, ann	coo diota	problematic.			
Type:	, ,									
Depth (ir	nches):						Hydric Soil Present	? Yes X No		
Remarks:							L			



Upland CY-10 View facing southwest



**Upland CY-10 Soils** 

Phase 1

# **SITE PHOTOGRAPHS**

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

Project/Site: CHPE	City/County: Putnam / Washington Sampling Date: 10/13/21
Applicant/Owner: TDI	State: NY Sampling Point: WET CZ-3
Investigator(s): J. Greaves, C. Scrivner	Section, Township, Range:
	relief (concave, convex, none): Concave Slope %: 2
Subregion (LRR or MLRA): LRR R Lat: 43-42-36.85N	Long: 73-25-56.30W Datum: WGS 84
Soil Map Unit Name: VeB - Vergennes silty clay loam, 3 to 8 percent slopes	
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 CZ-3
Palustrine Emergent Marsh - purple loosestrife marsh. Edinger classification periodically mowed.	n: Shallow Emergent Marsh / Purple Loosestrife Marsh. This area is
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	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 No _X Depth (inches):	
Water Table Present? Yes X No Depth (inches):	3
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:	

Number of Dominant Species	<u>Tree Stratum</u> (Plot size: 30' )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
That Are OBL, FACW, or FAC: 1 (A)   (A)					Number of Dominant Species
	2.				
Percent of Dominant Species		•			
Sabino/Shrub Stratum   (Plot size: 15' )	· -				·
Sapino/Shrub Stratum (Plot size: 15' )	7				Prevalence Index worksheet:
FACW species   20   x 2 = 40			=Total Cover		Total % Cover of: Multiply by:
2.	Sapling/Shrub Stratum (Plot size:)				OBL species x 1 = 70
FACU species   0   x 4 = 0   UPL species   0   x 5 = 0   Column Totals:   100   (A)   140   (B)   Prevalence Index = B/A =   1.40   Totals:   100   (A)   140   (B)   Prevalence Index = B/A =   1.40   Totals:   100   (A)   140   (B)   Prevalence Index = B/A =   1.40   Totals:   100   (A)   140   (B)   Prevalence Index = B/A =   1.40   Totals:   100   (A)   140   (B)   Prevalence Index = B/A =   1.40   Totals:   100   (A)   140   (B)   Prevalence Index = B/A =   1.40   Totals:   100   Total:   100   Totals:   100   Totals:   100   Totals:   100   Total:   100   Tot	1				FACW species 20 x 2 = 40
4	2				FAC species10 x 3 =30
5.	3				FACU species 0 x 4 = 0
6.	4.				UPL species 0 x 5 = 0
Hydrophytic Vegetation Indicators:   1 - Rapid Test for Hydrophytic Vegetation	5				Column Totals: 100 (A) 140 (B)
Second Stratum   Plot size: 5'   Second Stratum   Plot size: 5'   Second Stratum   Plot size: 5'   Second Stratum   Plot size: 5'   Second Stratum   Plot size: 30'   Second Stratum   Plot size: 30'   Second Stratum   Present?   Prese	6.				Prevalence Index = B/A =1.40
Herb Stratum (Plot size: 5' )  1. Lythrum salicaria 60 Yes OBL 2. Carex lurida 10 No OBL 3. Juncus tenuis 10 No FAC 4. Agrostis gigantea 10 No FACW 5. Cornus amonum 5 No FACW 6. Eupatorium perfoliatum 5 No FACW 7. Definitions of Vegetation 1 (Explain) 10. Definitions of Vegetation 5 (Tree – Woody plants as in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  10. Sapling/shrub — Woody vines Stratum (Plot size: 30' ) 1. Woody Vine Stratum (Plot size: 30' ) 1. Sapling/shrub — Woody vines greater than 3.28 ft in height.  Hydrophytic Vegetation 1 (Explain)  **Tree – 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' ) 1. Sapling/shrub — Woody vines greater than 3.28 ft in height.  **Woody Vine Stratum (Plot size: 30' ) 1. Sapling/shrub — Woody vines greater than 3.28 ft in height.  **Woody Vine Stratum (Plot size: 30' ) 2. Sapling/shrub — Woody vines greater than 3.28 ft in height.  **Woody Vines Stratum (Plot size: 30' ) 3. Sapling/shrub — Woody vines greater than 3.28 ft in height.  **Woody Vines Stratum (Plot size: 30' ) 4. Sapling/shrub — Woody vines greater than 3.28 ft in height.  **Woody Vines Stratum (Plot size: 30' ) 5. Sapling/shrub — Woody vines greater than 3.28 ft in height.  **Woody Vines Stratum (Plot size: 30' ) 6. Eupatorium perfoliatum (Plot size: 30' ) 6. Eupatorium perfoliatum (Plot size: 30' ) 7. Sapling/shrub — Woody plants less than 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of size, and woody plants less than 3 in. DBH and greater than or equal to 3.28 ft tall.  **Woody Vines — All woody vines greater than 3.28 ft in height.  **Woody Vines — All woody vines greater than 3.28 ft in height.  **Woody Vines — All woody vines greater than 3.28 ft in height.	7				Hydrophytic Vegetation Indicators:
1. Lythrum salicaria  2. Carex lurida  3. Juncus tenuis  4. Agrostis gigantea  5. No FACW  6. Eupatorium perfoliatum  7. Definitions of Vegetation Strata:  8. 9.			=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
2. Carex lurida 10 No OBL 3. Juncus tenuis 10 No FAC 4. Agrostis gigantea 10 No FACW 5. Comus amomum 5 No FACW 6. Eupatorium perfoliatum 5 No FACW 7. 8. 9. 10. 10. 10. 10. 10. 10. 10. 10. 10. 10	Herb Stratum (Plot size: 5' )				X 2 - Dominance Test is >50%
Supplied the street of the s	1. Lythrum salicaria	60	Yes	OBL	X 3 - Prevalence Index is ≤3.0 <sup>1</sup>
4. Agrostis gigantea 4. Agrostis gigantea 5. No FACW 5. Cornus amomum 5. No FACW 6. Eupatorium perfoliatum 7. B. Sapling/shrub – 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. Sapling/shrub – 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.  Hydrophytic Vegetation  Hydrophytic Vegetation  Yes X No  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.  Woody vines – All woody vines greater than 3.28 ft in height.  Hydrophytic Vegetation  Present? Yes X No	2. Carex lurida	10	No	OBL	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
5 No FACW 6. Eupatorium perfoliatum 5 No FACW 7. Definitions of Vegetation Strata: 8.	3. Juncus tenuis	10	No	FAC	data in Remarks or on a separate sheet)
6. Eupatorium perfoliatum  5 No FACW  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')  Woody Vine Stratum (Plot size: 30')  Hydrophytic Vegetation Present? Yes X No  "Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.  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.  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	4. Agrostis gigantea	10	No	FACW	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
6. Eupatorium perfoliatum 5 No FACW present, unless disturbed or problematic.  7. 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') 1. Woody Vines – All woody vines greater than 3.28 ft in height.  Hydrophytic Vegetation Present? Yes X No  =Total Cover	5. Cornus amomum	5	No	FACW	Indicators of budgio only untland budgelong must be
8	6. Eupatorium perfoliatum	5	No	FACW	
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. Herb – 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.  1. Hydrophytic Vegetation  1. Vegetation  1. Present? Yes X No —	7				Definitions of Vegetation Strata:
9	8.				Tree – Woody plants 3 in. (7.6 cm) or more in diameter
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' )  1.	9				
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 height.  Hydrophytic Vegetation Present? Yes X No	10				Sapling/shrub – Woody plants less than 3 in. DBH
Woody Vine Stratum (Plot size: 30' )  1.	11				and greater than or equal to 3.28 ft (1 m) tall.
Woody Vine Stratum (Plot size: 30' )  1.	12				Herb – All herbaceous (non-woody) plants, regardless
1		100	=Total Cover		of size, and woody plants less than 3.28 ft tall.
2.	Woody Vine Stratum (Plot size:)				Woody vines – All woody vines greater than 3.28 ft in
3. Hydrophytic Vegetation Present? Yes X No	1.				height.
4	2				Hydrophytic
=Total Cover	3				
	4				Present? Yes X No No
Remarks: (Include photo numbers here or on a separate sheet.)			=Total Cover		
	Remarks: (Include photo numbers here or on a separa	ate sheet.)			
l l					

Sampling Point: WET CZ-3

SOIL Sampling Point: WET CZ-3

	ription: (Describe to	o the dep				or or co	onfirm the absence of	indicators.)	
Depth	Matrix			x Feature		. 2			
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks	
0-3	10YR 3/2	100					Mucky Loam/Clay		
3-10	10YR 4/1	95	5YR 4/6	5	С	PL	Loamy/Clayey	Prominent redox concentrations	
10-16	5Y 4/1	70	10YR 5/6	20	С	M	Mucky Loam/Clay	Prominent redox concentrations	
			10YR 4/3	10	<u>C</u>	<u>M</u>		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: PI	L=Pore Lining, M=Matrix.	
Hydric Soil I			. toddood mann, m	- 11100111	00 000	<u> </u>		or Problematic Hydric Soils <sup>3</sup> :	
Histosol			Polyvalue Belov	w Surfac	ce (S8) ( <b>L</b>	.RR R,	2 cm Mu	ck (A10) ( <b>LRR K, L, MLRA 149B</b> )	
Histic Ep	pipedon (A2)		MLRA 149B)	1			? Coast Pr	airie Redox (A16) (LRR K, L, R)	
Black Hi	stic (A3)		Thin Dark Surfa	ace (S9)	(LRR R,	MLRA '	149B) 5 cm Mu	cky Peat or Peat (S3) (LRR K, L, R)	
Hydroge	n Sulfide (A4)		High Chroma S	ands (S	11) (LRR	K, L)	Polyvalue	e Below Surface (S8) (LRR K, L)	
	Layers (A5)		Loamy Mucky N			R K, L)	Thin Dark Surface (S9) (LRR K, L)		
	Below Dark Surface	(A11)	Loamy Gleyed		<del>-</del> 2)		Iron-Manganese Masses (F12) (LRR K, L, R)		
	ark Surface (A12)		X Depleted Matrix	. ,	0)		Piedmont Floodplain Soils (F19) (MLRA 149B)		
	lucky Mineral (S1)		Redox Dark Su				Mesic Spodic (TA6) (MLRA 144A, 145, 149B)		
	edox (S5)		Pepleted Dark :				Red Parent Material (F21)  Very Shallow Dark Surface (F22)		
	Matrix (S6)		Marl (F10) (LRI		))		Other (Explain in Remarks)		
	rface (S7)			, -,				,	
	,								
<sup>3</sup> Indicators of	f hydrophytic vegetation	on and w	etland hydrology mus	st be pre	sent, unl	ess distu	irbed or problematic.		
Restrictive I	_ayer (if observed):								
Type:									
Depth (ir	nches):						Hydric Soil Presen	t? Yes X No	
Remarks:									



Wetland CZ-3 View facing southwest



Wetland CZ-3 Soils

# Phase 1

# SITE PHOTOGRAPHS

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

Project/Site: CHPE	City/County: Putnam / Washington Sampling Date: 10/13/21
Applicant/Owner: TDI	State: NY Sampling Point: UPL CZ-3
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: 43-42-36.8"N	Long: 73-25-56.21W Datum: WGS 84
Soil Map Unit Name: VeB - Vergennes silty clay loam, 3 to 8 percent slopes	
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 problema	
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 X No	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 Polynomial (Balance Market)	
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	<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):	
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	vious 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)
				(B)
				Percent of Dominant Species That Are OBL, FACW, or FAC: 50.0% (A/E
				That Are OBL, FACW, or FAC: 50.0% (A/E
		=Total Cover		Total % Cover of: Multiply by:
apling/Shrub Stratum (Plot size: 15' )				OBL species 0 x 1 = 0
				FACW species $0 \times 2 = 0$
				FAC species 25 x 3 = 75
				FACU species 60 x 4 = 240
				UPL species 15 x 5 = 75
<del></del>				Column Totals: 100 (A) 390 (E
				Prevalence Index = $B/A = 3.90$
				Hydrophytic Vegetation Indicators:
		=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
erb Stratum (Plot size: 5' )		. otal ooro.		2 - Dominance Test is >50%
Poa pratensis	40	Yes	FACU	3 - Prevalence Index is ≤3.0 <sup>1</sup>
Setaria pumila	25	Yes	FAC	4 - Morphological Adaptations <sup>1</sup> (Provide supporti
Lotus corniculatus	10	No	FACU	data in Remarks or on a separate sheet)
Rubia peregrina	10	No	UPL	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
Daucus carota	5	No	UPL	<del>-</del>
Taraxacum officinale	5	No	FACU	<sup>1</sup> Indicators of hydric soil and wetland hydrology must present, unless disturbed or problematic.
	5	No	FACU	Definitions of Vegetation Strata:
Cichorium intybus			1700	benincons of vegetation offata.
				<b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diamet at breast height (DBH), regardless of height.
				Sanling/abruh Woody plants loss than 2 in DDL
l				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		<b>Herb</b> – All herbaceous (non-woody) plants, regardles 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
•		Tatal Cause		Tresent: TesNOX
		=Total Cover		

SOIL Sampling Point: UPL CZ-3

		the dep				tor or co	nfirm the absence of indic	cators.)
Depth	Matrix	0/		x Feature		12	Tautura	Demode
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-4	10YR 2/1						Sandy	
4-16	10YR 3/1	65	10YR 3/4	30	С	M	Loamy/Clayey	Distinct redox concentrations
			10YR 4/4	5	С	M		Distinct redox concentrations
								_
<sup>1</sup> Type: C=Co	ncentration, D=Deple	tion, RM	=Reduced Matrix, MS	S=Mask	ed Sand	Grains.	<sup>2</sup> Location: PL=Po	ore Lining, M=Matrix.
Hydric Soil Ir	ndicators:						Indicators for Pr	oblematic Hydric Soils <sup>3</sup> :
Histosol (	A1)		Polyvalue Belov	w Surfac	ce (S8) ( <b>L</b>	RR R,	2 cm Muck (A	A10) (LRR K, L, MLRA 149B)
Histic Epi	pedon (A2)		MLRA 149B)	)			Coast Prairie	Redox (A16) (LRR K, L, R)
Black His	tic (A3)		Thin Dark Surfa	ace (S9)	(LRR R,	MLRA 1	<b>49B</b> )5 cm Mucky l	Peat or Peat (S3) (LRR K, L, R)
Hydroger	Sulfide (A4)		High Chroma S	ands (S	11) (LRF	R K, L)	Polyvalue Be	low Surface (S8) (LRR K, L)
Stratified	Layers (A5)		Loamy Mucky N	√lineral (	F1) (LRF	R K, L)	Thin Dark Su	rface (S9) (LRR K, L)
Depleted	Below Dark Surface	(A11)	Loamy Gleyed	Matrix (F	<del>-</del> 2)		Iron-Mangan	ese Masses (F12) (LRR K, L, R)
Thick Dar	k Surface (A12)		Depleted Matrix	۲ (F3)			Piedmont Flo	odplain Soils (F19) ( <b>MLRA 149B</b> )
Sandy Mu	ucky Mineral (S1)		X Redox Dark Su	rface (F	6)		Mesic Spodio	(TA6) (MLRA 144A, 145, 149B)
Sandy Gl	eyed Matrix (S4)		Depleted Dark	Surface	(F7)		Red Parent N	/laterial (F21)
Sandy Re	edox (S5)		Redox Depress	ions (F8	3)		Very Shallow	Dark Surface (F22)
Stripped I	Matrix (S6)		Marl (F10) ( <b>LR</b> I	R K, L)			Other (Explai	n in Remarks)
Dark Surf	ace (S7)							
<sup>3</sup> Indicators of	hydrophytic vegetatio	on and w	etland hvdrology mus	st be pre	sent. unl	ess distu	rbed or problematic.	
	ayer (if observed):			- Table pro-				
Type:								
Depth (in	ches):						Hydric Soil Present?	Yes <u>X</u> No
Remarks:								



**Upland CZ-3 View facing southwest** 



**Upland CZ-3 Soils** 

Phase 1

# **SITE PHOTOGRAPHS**

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

Project/Site: CHPE	City/County: Putnam / Washington Sampling Date: 10/13/21
Applicant/Owner: TDI	State: NY Sampling Point: WET CAA-1
Investigator(s): J. Greaves, C. Scrivner	Section, Township, Range:
· · · · · · · · · · · · · · · · · · ·	relief (concave, convex, none): Concave Slope %: 1
Subregion (LRR or MLRA): LRR R Lat: 43-42-33.74N	Long: 73-25-59.36W Datum: WGS 84
Soil Map Unit Name: VeB - Vergennes silty clay loam, 3 to 8 percent slopes	
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 problemate	
SUMMARY OF FINDINGS – Attach site map showing sam	opling 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 CAA-1
Remarks: (Explain alternative procedures here or in a separate report.) Palustrine Emergent Marsh - within hay field. Edinger classification: Shallow	v Emergent Marsh. This area is periodically mowed.
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	
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)  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 No _X Depth (inches):	
Water Table 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, prev	vious inspections), if available:
By conding	
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. 4.		·		Total Number of Dominant Species Across All Strata:(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			
1				FACW species 60 x 2 = 120			
2.				FAC species 0 x 3 = 0			
3.				FACU species 0 x 4 = 0			
4				UPL species 10 x 5 = 50			
5				Column Totals: 100 (A) 200 (B)			
6.				Prevalence Index = B/A = 2.00			
7				Hydrophytic Vegetation Indicators:			
		=Total Cover		1 - Rapid Test for Hydrophytic Vegetation			
Herb Stratum (Plot size: 5' )				X 2 - Dominance Test is >50%			
1. Phalaris arundinacea	60	Yes	FACW	X 3 - Prevalence Index is ≤3.0 <sup>1</sup>			
2. Lythrum salicaria	10	No	OBL	4 - Morphological Adaptations <sup>1</sup> (Provide supporting			
3. Carex lurida	10	No	OBL	data in Remarks or on a separate sheet)			
4. Eutrochium maculatum	10	No	OBL	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)			
5. Daucus carota	5	No	UPL	1 Indicators of hydric call and wattend hydrology must be			
6. Pastinaca sativa	5	No	UPL	<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.							
	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.				height.			
2.				Hydrophytic			
3. 4.		<del></del>		Vegetation Present? Yes X No			
		=Total Cover					
Remarks: (Include photo numbers here or on a separ	ate sheet.)	•		L			
` '	,						

Sampling Point: WET CAA-1

SOIL Sampling Point: WET CAA-1

		the dep				tor or co	onfirm the absence of i	indicators.)
Depth	Matrix	0/		Featur		12	Tandona	Demode
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-16	10YR 4/1	55	10YR 5/3	35	<u> </u>	<u>М</u> М	Mucky Loam/Clay	Distinct redox concentrations
-			10YR 5/6	5	<u>C</u>	IVI		Prominent redox concentrations
			5YR 4/6	5	С	M		Prominent redox concentrations
-								
								<del></del> ,
<sup>1</sup> Type: C=Co	oncentration, D=Deple	etion, RM	=Reduced Matrix, MS	S=Mask	ed Sand	Grains.	<sup>2</sup> Location: PL	L=Pore Lining, M=Matrix.
Hydric Soil	Indicators:							or Problematic Hydric Soils <sup>3</sup> :
Histosol			Polyvalue Belov		ce (S8) ( <b>L</b>	RR R,		ck (A10) ( <b>LRR K, L, MLRA 149B</b> )
	pipedon (A2)		MLRA 149B)					airie Redox (A16) (LRR K, L, R)
Black Hi			Thin Dark Surfa					cky Peat or Peat (S3) (LRR K, L, R)
	n Sulfide (A4)		High Chroma S					e Below Surface (S8) (LRR K, L)
	d Layers (A5)	(0.4.4)	Loamy Mucky N			K K, L)		k Surface (S9) (LRR K, L)
	d Below Dark Surface ark Surface (A12)	(A11)	Loamy Gleyed I  X Depleted Matrix		-2)			ganese Masses (F12) (LRR K, L, R) t Floodplain Soils (F19) (MLRA 149B)
	fucky Mineral (S1)		Redox Dark Su	. ,	6)			podic (TA6) (MLRA 144A, 145, 149B)
	Sleyed Matrix (S4)		Depleted Dark					ent Material (F21)
	ledox (S5)		? Redox Depress					allow Dark Surface (F22)
	Matrix (S6)		Marl (F10) (LRI		-,			xplain in Remarks)
	rface (S7)			. ,				, in the second
	, ,							
<sup>3</sup> Indicators o	f hydrophytic vegetation	on and w	etland hydrology mus	t be pre	sent, unl	ess distu	rbed or problematic.	
Restrictive I	Layer (if observed):							
Type:								
Depth (ii	nches):						Hydric Soil Presen	t? Yes X No
Remarks:								
								,



Wetland CAA-1 View facing west



Wetland CAA-1 Soils

Phase 1

# SITE PHOTOGRAPHS

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

Project/Site: CHPE	City/County: Putnam / Washington Sampling Date: 10/13/21
Applicant/Owner: TDI	State: NY Sampling Point: WET CBB-3
Investigator(s): J. Greaves, C. Scrivner	Section, Township, Range:
	relief (concave, convex, none): Concave Slope %: 2
Subregion (LRR or MLRA): LRR R Lat: 43-42-32.72N	Long: 73-25-59.82W Datum: WGS 84
Soil Map Unit Name: VeB - Vergennes silty clay loam, 3 to 8 percent slopes	
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> -
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 CBB-3
Remarks: (Explain alternative procedures here or in a separate report.) Palustrine Emergent Marsh. Edinger classification: Shallow Emergent Mars	sh.
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)
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	<u> </u>
Algal Mat or Crust (B4) Recent Iron Reduction in	
Iron Deposits (B5) — Thin Muck Surface (C7)	
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remark	
Sparsely Vegetated Concave Surface (B8)	X FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No _X Depth (inches):	: <u> </u>
Water Table Present? Yes X No Depth (inches):	
Saturation Present? Yes X No Depth (inches):	:0 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 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: 100.0% (A/B)			
7				Prevalence Index worksheet:			
		=Total Cover		Total % Cover of: Multiply by:			
Sapling/Shrub Stratum (Plot size:)				OBL species70 x 1 =70			
1.				FACW species 20 x 2 = 40			
2				FAC species 5 x 3 = 15			
3.				FACU species 0 x 4 = 0			
4				UPL species 0 x 5 = 0			
5				Column Totals: 95 (A) 125 (B)			
6.				Prevalence Index = B/A = 1.32			
7				Hydrophytic Vegetation Indicators:			
		=Total Cover		1 - Rapid Test for Hydrophytic Vegetation			
Herb Stratum (Plot size: 5' )		-"		X 2 - Dominance Test is >50%			
1. Lythrum salicaria	30	Yes	OBL	X 3 - Prevalence Index is ≤3.0 <sup>1</sup>			
Typha angustifolia	30	Yes	OBL	4 - Morphological Adaptations <sup>1</sup> (Provide supporting			
Onoclea sensibilis	10	No	FACW	data in Remarks or on a separate sheet)			
4. Solidago gigantea	5	No	FACW	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)			
5. Carex lurida	5	No	OBL	Indicators of hydric call and watland hydrology must be			
6. Cornus sericea	5	No	FACW	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.			
7. Solidago rugosa	5	No	FAC	Definitions of Vegetation Strata:			
8. Symphyotrichum puniceum	5	No	OBL				
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				<b>Herb</b> – 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:)				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 separa	ate sheet )	•		L			
Tremarks. (medde photo humbers here of on a sepan	ato silicot.)						

Sampling Point: WET CBB-3

**SOIL** Sampling Point: WET CBB-3

		o the de				tor or co	onfirm the absence of	indicators.)		
Depth	Matrix	0/		r Feature		Loc <sup>2</sup>	Touture	Domostro		
(inches)	Color (moist)	<u>%</u>	Color (moist)		Type <sup>1</sup>		Texture	Remarks		
0-2	2.5Y 3/1	98	10YR 4/4	2	<u>C</u>	<u>PL</u>	Mucky Loam/Clay	Prominent redox concentrations		
2-16	2.5Y 4/1	65	10YR 4/3	20	<u>C</u>	<u>M</u>	Mucky Loam/Clay	Distinct redox concentrations		
			10YR 4/6	15	С	M		Prominent redox concentrations		
								_		
								_		
	oncentration, D=Deple	etion, RM	=Reduced Matrix, MS	S=Mask	ed Sand	Grains.		L=Pore Lining, M=Matrix.		
Hydric Soil I			Dobarduo Polo	u Curfoe	o (CO) (I	DD D		or Problematic Hydric Soils <sup>3</sup> :		
Histosol	pipedon (A2)		Polyvalue Belov MLRA 149B)		e (36) (L	KK K,		ck (A10) ( <b>LRR K, L, MLRA 149B</b> ) rairie Redox (A16) ( <b>LRR K, L, R</b> )		
Black Hi			Thin Dark Surfa		(LRR R.	MLRA 1		cky Peat or Peat (S3) (LRR K, L, R)		
	n Sulfide (A4)		High Chroma S				Polyvalue Below Surface (S8) (LRR K, L)  Thin Dark Surface (S9) (LRR K, L)			
	Layers (A5)		Loamy Mucky N							
X Depleted	d 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 Matrix	(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)			
	edox (S5) Matrix (S6)		? Redox Depress		3)			allow Dark Surface (F22) xplain in Remarks)		
	rface (S7)		Marl (F10) ( <b>LRI</b>	Χ <b>K</b> , <b>L</b> )			Other (E	xpiain in Remarks)		
Dark Sur	nace (Sr)									
<sup>3</sup> Indicators of	f hydrophytic vegetation	on and w	etland hydrology mus	t be pre	sent, unl	ess distu	irbed or problematic.			
Restrictive I	_ayer (if observed):									
Type:										
Depth (ir	nches):						Hydric Soil Preser	t? Yes X No		
Remarks:							•			



Wetland CBB-3 View facing southwest



Wetland CBB-3 Soils

Phase 1

# **SITE PHOTOGRAPHS**

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

Project/Site: CHPE	City/County: Putnam / Washington Sampling Date: 10/13/21	
Applicant/Owner: TDI	State: NY Sampling Point: UPL	
Investigator(s): J. Greaves, C. Scrivner	Section, Township, Range:	
Landform (hillside, terrace, etc.): Flat Local	relief (concave, convex, none): None Slope %: 0	
Subregion (LRR or MLRA): LRR R Lat: 43-42-33.08N	Long: 73-25-59.86W Datum: WGS 84	
Soil Map Unit Name: VeB - Vergennes silty clay loam, 3 to 8 percent slopes	<u></u>	
Are climatic / hydrologic conditions on the site typical for this time of year?		
	<u> </u>	
Are Vegetation, Soil, or Hydrologysignificantly 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:	
Remarks: (Explain alternative procedures here or in a separate report.)		
Cropland/Field Crop. This is a shared upland point that is directly between the	both wetland CAA (flag CAA-1) and CBB ( flag CBB-3).	
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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)	
	Marl Deposits (B15) Dry-Season Water Table (C2)	
	Hydrogen Sulfide Odor (C1) Crayfish Burrows (C8)	
<del></del>	Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9)	
<del></del>	Recent Iron Reduction in Tilled Soils (C6) Geomorphic Position (D2)	
1 <del></del>	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:	
Remarks:		

**VEGETATION** – Use scientific names of plants. Sampling Point: UPL Absolute Dominant Indicator <u>Tree Stratum</u> (Plot size: 30') Species? Status % Cover **Dominance Test worksheet:** 1. **Number of Dominant Species** That Are OBL, FACW, or FAC: (A) 3. **Total Number of Dominant** 4. Species Across All Strata: 6 (B) 5. Percent of Dominant Species That Are OBL, FACW, or FAC: 6. 0.0% (A/B) Prevalence Index worksheet: =Total Cover Total % Cover of: Multiply by: Sapling/Shrub Stratum (Plot size: 15' OBL species x 1 = x 2 = **FACW** species x 3 = 2. FAC species **FACU** species 70 3. x 4 = UPL species 30 x 5 = 100 Column Totals: 430 4.30 6. Prevalence Index = B/A = Hydrophytic Vegetation Indicators: 7. =Total Cover 1 - Rapid Test for Hydrophytic Vegetation Herb Stratum (Plot size: 5') 2 - Dominance Test is >50% Phleum pratense FACU 3 - Prevalence Index is ≤3.01 1. 4 - Morphological Adaptations<sup>1</sup> (Provide supporting 2. Trifolium pratense 10 Yes **FACU** data in Remarks or on a separate sheet) 10 Yes 3. Lotus corniculatus **FACU** 10 Problematic Hydrophytic Vegetation<sup>1</sup> (Explain) 4. Rubia peregrina Yes UPL 10 Yes UPL 5. Vicia cracca <sup>1</sup>Indicators of hydric soil and wetland hydrology must be 10 UPL 6. Pastinaca sativa Yes 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. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. 11. 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 height. 1. Hydrophytic Vegetation Present? Yes No X =Total Cover Remarks: (Include photo numbers here or on a separate sheet.)

SOIL Sampling Point: UPL Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Matrix Redox Features Loc<sup>2</sup> (inches) Color (moist) Color (moist) Remarks Texture 0-4 10YR 3/2 100 Loamy/Clayey 4-16 10YR 4/3 100 Loamy/Clayey

<sup>1</sup> Type: C=Concentration, D=Depletion, RM=	Reduced Matrix, MS=Masked Sand Grains.	<sup>2</sup> Location: PL=Pore Lining, M=Matrix.
Hydric Soil Indicators:	,	Indicators for Problematic Hydric Soils <sup>3</sup> :
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) ( <b>LRR K, L</b> )	Other (Explain in Remarks)
Dark Surface (S7)		
<sup>3</sup> Indicators of hydrophytic vegetation and we	tland hydrology must be present, unless disturbed or	r problematic.
Restrictive Layer (if observed):		
Type:		

**Hydric Soil Present?** 

US Army Corps of Engineers

Depth (inches):

Remarks:

No X

Yes



Upland CAA-1 and CBB-3 View facing northwest



**Upland CAA-1 and CBB-3 Soils** 

Phase 1

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

Project/Site: CHPE	City/County: Putnam / Washington Sampling Date: 10/13/21
Applicant/Owner: TDI	State: NY Sampling Point: WET CCC-W6A
Investigator(s): J. Greaves, C. Scrivner	Section, Township, Range:
	relief (concave, convex, none): Concave Slope %: 1
Subregion (LRR or MLRA): LRR R Lat: 43-42-27.96N	Long: 73-26-3.38W Datum: WGS 84
Soil Map Unit Name: CHC - Charlton fine sandy loam, 3 to 8 percent slopes	
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	
SUMMARY OF FINDINGS – Attach site map showing sam	
·	T
Hydrophytic Vegetation Present? Yes X No Hydric Soil Present? Yes X No	Is the Sampled Area within a Wetland? Yes X No
Wetland Hydrology Present? Yes X No	If yes, optional Wetland Site ID: Near Flag CCC-W6A
Remarks: (Explain alternative procedures here or in a separate report.) Palustrine Emergent Marsh. Edinger classification: Shallow Emergent 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)
Surface Water (A1)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)  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 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:	

2.	Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1					
Percent of Dominant Species   That Are OBL, FACV, or FAC: 100.0% (A/B)	4.				
Total Cover   Total Cover   Total Cover   OBL species   80			·		•
Sapiling/Shrub Stratum (Plot size: 15')   1.	7				
1. Cornus serices			=Total Cover		Total % Cover of: Multiply by:
2.	Sapling/Shrub Stratum (Plot size:15')				OBL species 80 x 1 = 80
FACU species   2	1. Cornus sericea	15	Yes	FACW	FACW species 20 x 2 = 40
UPL species   0 x 5 = 0   Column Totals: 117   (A) 173   (B)	2				FAC species15 x 3 =45
Column Totals: 117 (A) 173 (B)	3				FACU species 2 x 4 = 8
Prevalence Index = BIA =   1.48	4				UPL species 0 x 5 = 0
Hydrophytic Vegetation Indicators:   15	5				Column Totals:117 (A)173 (B)
Herb Stratum (Plot size: 5' )   1. Lythrum salicaria	6.				Prevalence Index = B/A =1.48
Herb Stratum (Plot size: 5' )  1. Lythrum salicaria 40 Yes OBL 2. Typha angustifolia 40 Yes OBL 3. Solidago rugosa 15 No FAC 4. Eupatorium perfoliatum 5 No FAC 5. No FACW 6.	7				Hydrophytic Vegetation Indicators:
1. Lythrum salicaria  40 Yes OBL  7. Typha angustifolia  40 Yes OBL  8. Solidago rugosa  4. Eupatorium perfoliatum  5 No FACW  7. Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.  7. Definitions of Vegetation Stratas  8. Solidago rugosa  1. Vitis aestivalis  2. No FACU  Woody Vine Stratum  (Plot size: 30')  4. Wordy Vine Stratum  (Plot size: 30')  1. Vitis aestivalis  2. No FACU  2. =Total Cover  2. Typha angustifolia  4. Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)  4. Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)  4. Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)  4. Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)  4. Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)  7. Problematic Hydrophytic Vegetation 1 (Explain)  ¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.  Definitions of Vegetation Stratas:  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')  1. Vitis aestivalis  2. No FACU  4. Hydrophytic  Vegetation  Present? Yes X No  1. Hydrophytic Vegetation  Present? Yes X No  1. Vitis aestivalis Yes X No		15	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
2. Typha angustifolia 3. Solidago rugosa 4. Eupatorium perfoliatum 5. No FAC 4. Eupatorium perfoliatum 5. No FAC 5. No FACW Problematic Hydrophytic Vegetation <sup>1</sup> (Explain) 5.	Herb Stratum (Plot size: 5' )		•		X 2 - Dominance Test is >50%
2. Typha angustifolia 3. Solidago rugosa 4. Eupatorium perfoliatum 5. No FAC 4. Eupatorium perfoliatum 5. No FAC 5. No FACW Problematic Hydrophytic Vegetation <sup>1</sup> (Explain) 5.	1. Lythrum salicaria	40	Yes	OBL	X 3 - Prevalence Index is ≤3.0 <sup>1</sup>
3. Solidago rugosa 4. Eupatorium perfoliatum 5 No FACW Problematic Hydrophytic Vegetation¹ (Explain) 5.		40	Yes	OBL	
4. Eupatorium perfoliatum 5 No FACW Problematic Hydrophytic Vegetation (Explain) 5. 6. 7. 8. 9. 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.  10. 11. 12. 100 =Total Cover Woody Vine Stratum (Plot size: 30') 1. Vitis aestivalis 2 No FACU Woody vines – All woody vines greater than 3.28 ft in height.  Woody vines – All woody vines greater than 3.28 ft in height.  Hydrophytic Vegetation Present? Yes X No  Problematic Hydrophytic Vegetation (Explain) 1Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.  10. 10. 10. 11. 12. 13. 14. 15. 15. 16. 16. 17. 18. 19. 19. 19. 19. 19. 19. 19. 19. 19. 19		15	No	FAC	
Comparison of the present, unless disturbed or problematic.   Comparison of Vegetation Strata:		5	No	FACW	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
8					<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
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. Herb — 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  2 No FACU  Woody vines — All woody vines greater than 3.28 ft in height.  Hydrophytic Vegetation Present? Yes X No  2 =Total Cover	7.				Definitions of Vegetation Strata:
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' )  1. Vitis aestivalis 2 No FACU  Woody vines – All woody vines greater than 3.28 ft in height.  Hydrophytic Vegetation Present? Yes X No Present? Yes X No	· -				<b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
Moody Vine Stratum   (Plot size: 30' )					
Moody Vine Stratum   (Plot size: 30' )	12.				
1. Vitis aestivalis 2 No FACU height.  4. Hydrophytic Vegetation Present? Yes X No Present? Yes X No Present?		100	=Total Cover		
1. Vitis aestivalis       2       No       FACU       height.         2.       3.       Hydrophytic         4.       Vegetation       Present?       Yes X No	Woody Vine Stratum (Plot size:)				Woody vines – All woody vines greater than 3.28 ft in
3. Hydrophytic Vegetation Present? Yes X No	1. Vitis aestivalis	2	No	FACU	
4	2				
4	3.				
=Total Cover	4.				_
		2	=Total Cover		
Tremains. (modes photo humbers here of on a separate sheet.)	Remarks: (Include photo numbers here or on a senar		•		<u> </u>
	Remarks: (Include photo numbers here or on a separ	ate sheet.)			

Sampling Point: NET CCC-W6A

SOIL Sampling Point: WET CCC-W6A

Profile Desc Depth	ription: (Describe t Matrix	o the dep		ment the x Feature		tor or co	nfirm the absence of	indicators.)
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-8	10YR 3/1	96	10YR 4/4	4	С	PL	Loamy/Clayey	Distinct redox concentrations
8-16	2.5Y 3/1	62	10YR 5/6	20	С	М	Loamy/Clayey	Prominent redox concentrations
			10YR 2/1	2	С	М		Faint redox concentrations
			10YR 4/2	10	С	М		Faint redox concentrations
¹Type: C=Co	oncentration, D=Deple	etion, RM	=Reduced Matrix, M	S=Mask	ed Sand	Grains.	<sup>2</sup> Location: P	L=Pore Lining, M=Matrix.
Hydric Soil I								or Problematic Hydric Soils <sup>3</sup> :
Histosol			Polyvalue Belo		ce (S8) ( <b>I</b>	_RR R,		ick (A10) ( <b>LRR K, L, MLRA 149B</b> )
	oipedon (A2)		MLRA 149B)		/I DD D	MI DA 1		rairie Redox (A16) (LRR K, L, R)
Black His	stic (A3) n Sulfide (A4)		Thin Dark Surfa					e Below Surface (S8) (LRR K, L, R)
	I Layers (A5)		Loamy Mucky N					rk Surface (S9) (LRR K, L)
	Below Dark Surface	(A11)	Loamy Gleyed			· i · · · · · · · · · · · · · · · · · ·		nganese Masses (F12) (LRR K, L, R)
	ark Surface (A12)	(, ,	Depleted Matrix		-,			nt Floodplain Soils (F19) (MLRA 149B)
	lucky Mineral (S1)		X Redox Dark Su	rface (F	6)			podic (TA6) ( <b>MLRA 144A, 145, 149B</b> )
Sandy G	leyed Matrix (S4)		Depleted Dark	Surface	(F7)		Red Par	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 <b>K</b> , <b>L</b> )			Other (E	xplain in Remarks)
Dark Sur	rface (S7)							
<sup>3</sup> Indicators of	hydrophytic vegetati	on and w	etland hydrology mus	st be pre	sent, unl	ess distu	rbed or problematic.	
	_ayer (if observed):							
Type:								
	nches):						Hydric Soil Preser	nt? Yes X No
Remarks:								



Wetland CCC-W-6A View facing northwest



Wetland CCC-W-6A Soils

Phase 1

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

Project/Site: CHPE	City/County: Putnam / Washington Sampling Date: 10/13/21
Applicant/Owner: TDI	State: NY Sampling Point: Upl CCC-W6A
Investigator(s): J. Greaves, C. Scrivner	Section, Township, Range:
• (/	relief (concave, convex, none): Concave Slope %: 45
Subregion (LRR or MLRA): LRR R Lat: 43-42-27.86N	Long: 73-26-3.05W Datum: WGS 84
Soil Map Unit Name: VeB - Vergennes silty clay loam, 3 to 8 percent slope	
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 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: Upland CCC-W6A data plot.
Remarks: (Explain alternative procedures here or in a separate report.)  Mowed roadside. Upland CCC-W6A data plot.	
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	
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 i i i i i i i i i i i i i i i i i i
Sediment Deposits (B2)  Oxidized Rhizospheres (B2)	
Prift Deposits (B3) Presence of Reduced In	· , · · ,
Algal Mat or Crust (B4)  Recent Iron Reduction in  This Music Surface (C7)	
Iron Deposits (B5)  Thin Muck Surface (C7)  Other (Figure in Present	<u> </u>
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:	
1	

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:)				OBL species0 x1 =0
1				FACW species 0 x 2 = 0
2.				FAC species10 x 3 =30
3.				FACU species75 x 4 =300
4				UPL species15 x 5 =75
5				Column Totals: 100 (A) 405 (B)
6.				Prevalence Index = B/A = 4.05
7.				Hydrophytic Vegetation Indicators:
		=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5' )		•		2 - Dominance Test is >50%
1. Lolium pratense	50	Yes	FACU	3 - Prevalence Index is ≤3.0 <sup>1</sup>
2. Phleum pratense	20	Yes	FACU	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
3. Setaria pumila	10	No	FAC	data in Remarks or on a separate sheet)
Rubia peregrina	5	No No	UPL	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5. Vicia cracca	5	No	UPL	<u> </u>
6. Daucus carota	5	No	UPL	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
7. Taraxacum officinale	5	No	FACU	Definitions of Vegetation Strata:
8.				-
9.				Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
10.				
11.				Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
12				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.				<b>Woody vines</b> – All woody vines greater than 3.28 ft in height.
2.				
3.				Hydrophytic Vegetation
4.				Present? Yes No X
		=Total Cover		
Remarks: (Include photo numbers here or on a separ	ate sheet.)	•		

Sampling Point: Upl CCC-W6A

SOIL Sampling Point Upl CCC-W6A

		to the de				tor or co	onfirm the absence of indicators.)	
Depth	Matrix	0/		x Featur		1 2	Tooking	
(inches)	Color (moist)		Color (moist)		Type <sup>1</sup>	Loc <sup>2</sup>	Texture Remarks	
0-4	10YR 3/1	100					Sandy	
4-16	10YR 4/2	100					Sandy	
							·	
							-	
							·	
							-	
							·	
<sup>1</sup> Type: C=C	oncentration, D=Depl	etion, RN	/I=Reduced Matrix, M	/IS=Mas	ked Sand	l 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) (I	LRR R,	2 cm Muck (A10) (LRR K, L, MLRA 149	-
	pipedon (A2)		MLRA 149B	•			Coast Prairie Redox (A16) (LRR K, L, R	
	stic (A3)		Thin Dark Surfa					
	n Sulfide (A4)		High Chroma S				Polyvalue Below Surface (S8) (LRR K, I	L)
	d Layers (A5) d Below Dark Surface	(111)	Loamy Mucky Loamy Gleyed			K K, L)	Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) (LRR K,	I D)
	а Беюw Dark Surface ark Surface (А12)	(A11)	Depleted Matri		F2)		Piedmont Floodplain Soils (F19) (MLRA	
	Mucky Mineral (S1)		Redox Dark Su		-6)		Mesic Spodic (TA6) (MLRA 144A, 145,	
	Gleyed Matrix (S4)		Depleted Dark		-		Red Parent Material (F21)	1102)
	Redox (S5)		Redox Depress				Very Shallow Dark Surface (F22)	
Stripped	Matrix (S6)		Marl (F10) ( <b>LR</b>	<b>R</b> K, L)			Other (Explain in Remarks)	
Dark Su	rface (S7)							
2								
		ion and v	vetland hydrology mu	ıst be pr	resent, ur	iless dist	turbed or problematic.	
	Layer (if observed):							
Type:							l	
Depth (ii	nches):						Hydric Soil Present? Yes No	<u>X</u>
Remarks:								



**Upland CCC-W-6A View facing southwest** 



**Upland CCC-W-6A Soils** 

Phase 1

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

Project/Site: CHPE	City/County: Putnam / Washington Sampling Date: 10/13/21
Applicant/Owner: TDI	State: NY Sampling Point: WET CDD-2
Investigator(s): J. Greaves, C. Scrivner	Section, Township, Range:
Landform (hillside, terrace, etc.): Linear swale Local r	relief (concave, convex, none): Concave Slope %: 2
Subregion (LRR or MLRA): LRR R Lat: 43-42-26.09N	Long: 73-26-4.23W Datum: WGS 84
Soil Map Unit Name: CHC - Charlton fine sandy loam, 3 to 8 percent slopes	
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 CDD-2
Remarks: (Explain alternative procedures here or in a separate report.) Palustrine Emergent Marsh. Edinger classification: Shallow Emergent Marsh	h. This community occurs from flag CDD-1 to CDD-3.
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	<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)  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)  —— Other (Explain in Remark	Shallow Aquitard (D3)  Microtopographic Relief (D4)
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):	
	Wetland Hydrology Present? Yes X No
(includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous forms of the content of the conte	vious inspections), if available:
Describe Necorded Data (Stream gauge, monitoring won, acriai process, pro-	vious irispections), ii avaliable.
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: 2 (B)
5 6				Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
7				Prevalence Index worksheet:
		=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size:15')				OBL species75 x 1 =75
1. Cornus sericea	5	Yes	FACW	FACW species 25 x 2 = 50
2.		- ——		FAC species 5 x 3 = 15
3				FACU species 0 x 4 = 0
4.				UPL species 0 x 5 = 0
5				Column Totals: 105 (A) 140 (B)
6.				Prevalence Index = B/A = 1.33
7.				Hydrophytic Vegetation Indicators:
	5	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size:)				X 2 - Dominance Test is >50%
1. Lythrum salicaria	65	Yes	OBL	X_3 - Prevalence Index is ≤3.0 <sup>1</sup>
2. Carex lurida	10	No	OBL	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
3. Cornus sericea	5	No	FACW	data in Remarks or on a separate sheet)
Eupatorium perfoliatum	5	No	FACW	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5. Symphyotrichum novae-angliae	5	No	FACW	The diseases of business of least one disease of business of busin
6. Agrostis gigantea	5	No	FACW	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
7. Equisetum arvense	5	No	FAC	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')		_		Manda vines All woods vines greater than 2.20 ft in
1.				<b>Woody vines</b> – All woody vines greater than 3.28 ft in height.
2.				
3.				Hydrophytic
4.				Vegetation Present? Yes X No
···		=Total Cover		100 <u>X</u> 100 <u>X</u>
Describer (leglade plate graphers bere come				
Remarks: (Include photo numbers here or on a separa	ate sneet.)			

Sampling Point: WET CDD-2

SOIL Sampling Point: WET CDD-2

		o the dep				tor or co	nfirm the absence of	indicators.)
Depth	Matrix			c Feature		. 2	<b>-</b> .	
(inches)	Color (moist)	<u>%</u>	Color (moist)		Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-6	10YR 2/1	98	10YR 4/6	2	<u> </u>	PL_	Loamy/Clayey	Prominent redox concentrations
6-16	10Y 4/1	55	10YR 4/6	15	С	<u>M</u>	Sandy	Prominent redox concentrations
			10YR 5/4	30	С	M		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> I ocation: PI	L=Pore Lining, M=Matrix.
Hydric Soil		o o ,	. toudood manny m		00.00	<u> </u>		or Problematic Hydric Soils <sup>3</sup> :
Histosol	(A1)		Polyvalue Belov	w Surfac	e (S8) ( <b>L</b>	RR R,	2 cm Mu	ck (A10) ( <b>LRR K, L, MLRA 149B</b> )
Histic Ep	pipedon (A2)		MLRA 149B)				? Coast Pr	airie Redox (A16) (LRR K, L, R)
Black Hi			Thin Dark Surfa					cky 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 N			R K, L)		k Surface (S9) (LRR K, L)
	d Below Dark Surface	(A11)	Loamy Gleyed		-2)			iganese Masses (F12) (LRR K, L, R)
	ark Surface (A12) lucky Mineral (S1)		Depleted Matrix  X Redox Dark Su	, ,	6)			t Floodplain Soils (F19) (MLRA 149B) oodic (TA6) (MLRA 144A, 145, 149B)
	sleyed Matrix (S4)		Depleted Dark					ent Material (F21)
	edox (S5)		Redox Depress					allow Dark Surface (F22)
	Matrix (S6)		Marl (F10) (LRI		,			xplain in Remarks)
Dark Su	rface (S7)						<del></del>	
	f hydrophytic vegetation	on and w	etland hydrology mus	t be pre	sent, unl	ess distu	rbed or problematic.	
	_ayer (if observed):							
Type:								
Depth (in	nches):						Hydric Soil Presen	t? Yes X No
Remarks:								



Wetland CDD-2 View facing southwest



Wetland CDD-2 Soils

Phase 1

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

Project/Site: CHPE	City/County: Putnam / Washington Sampling Date: 10/13/21
Applicant/Owner: TDI	State: NY Sampling Point: WET CDD-5
Investigator(s): J. Greaves, C. Scrivner	Section, Township, Range:
Landform (hillside, terrace, etc.): Linear depression Local r	relief (concave, convex, none): Concave Slope %: 2
Subregion (LRR or MLRA): LRR R Lat: 43-42-24.20N	Long: 73-26-5.13W Datum: WGS 84
Soil Map Unit Name: CHC - Charlton fine sandy loam, 3 to 8 percent slopes	
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 problemate	
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 CDD-5
Remarks: (Explain alternative procedures here or in a separate report.) Palustrine Scrub Shrub. Edinger classification: Shrub Swamp. This commur	nity occurs from flag CDD-4 to CDD-6.
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	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	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)	X 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):	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:	

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:3(B)
5		<u> </u>		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 <u>85</u> x 1 = <u>85</u>
1. Cornus sericea	50	Yes	FACW	FACW species 60 x 2 = 120
2. Salix nigra	10	No	OBL	FAC species15 x 3 =45
3. Cornus racemosa	5	No	FAC	FACU species 0 x 4 = 0
4				UPL species 0 x 5 = 0
5.				Column Totals: 160 (A)(B)
6				Prevalence Index = B/A =1.56
7.				Hydrophytic Vegetation Indicators:
	65	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5' )		_		X 2 - Dominance Test is >50%
1. Lythrum salicaria	45	Yes	OBL	X 3 - Prevalence Index is ≤3.0 <sup>1</sup>
Typha angustifolia	25	Yes	OBL	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
3. Carex lurida	5	No	OBL	data in Remarks or on a separate sheet)
4. Cornus sericea	5	No	FACW	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5. Equisetum arvense	5	No	FAC	<u> </u>
6. Cornus racemosa	5	No	FAC	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
7. Symphyotrichum novae-angliae	5	No	FACW	Definitions of Vegetation Strata:
8.		110	TAOV	
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.				Harb All barbassass (see see she also the second see
	95	=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 separa	ate sheet.)			

Sampling Point: WET CDD-5

SOIL Sampling Point: WET CDD-5

		to the dep				or or co	nfirm the absence of	indicators.)
Depth	Matrix			c Feature		. 2	<del>-</del> .	
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-6	10YR 2/1	100					Mucky Loam/Clay	
6-10	2.5Y 4/1	65	7.5YR 4/6	10	<u>C</u>	M	Sandy	Prominent redox concentrations
			10YR 5/6	10	<u>C</u>	<u>M</u>		Prominent redox concentrations
			10YR 5/4	15	С	M		Prominent redox concentrations
1 <sub>Tymes</sub> C. Co		otion DM	Doduced Metrix M	- Maak		Crains	2l acetion, Di	Dara Lining M. Matrix
Hydric Soil I	oncentration, D=Depl	etion, Rivi	=Reduced Matrix, Mi	S=IVIASK	ed Sand	Grains.		_=Pore Lining, M=Matrix.  or Problematic Hydric Soils <sup>3</sup> :
Histosol			Polyvalue Belov	w Surfac	e (S8) (I	RR R		ck (A10) ( <b>LRR K, L, MLRA 149B</b> )
	pipedon (A2)		MLRA 149B)		,o (00) ( <b>2</b>			airie Redox (A16) (LRR K, L, R)
Black Hi			Thin Dark Surfa		(LRR R,	MLRA 1		cky Peat or Peat (S3) ( <b>LRR K, L, R</b> )
	n Sulfide (A4)		High Chroma S					e Below Surface (S8) (LRR K, L)
Stratified	l Layers (A5)		Loamy Mucky N	/lineral (	F1) ( <b>LRF</b>	R K, L)	Thin Dar	k Surface (S9) (LRR K, L)
X Depleted	d Below Dark Surface	(A11)	Loamy Gleyed	Matrix (F	-2)		Iron-Man	ganese Masses (F12) (LRR K, L, R)
Thick Da	ark Surface (A12)		Depleted Matrix	(F3)			Piedmon	t Floodplain Soils (F19) (MLRA 149B)
Sandy M	lucky Mineral (S1)		Redox Dark Su	rface (F	6)		Mesic Sp	oodic (TA6) ( <b>MLRA 144A, 145, 149B</b> )
Sandy G	leyed Matrix (S4)		Depleted Dark	Surface	(F7)		Red Pare	ent Material (F21)
X Sandy R			Redox Depress		3)			allow Dark Surface (F22)
	Matrix (S6)		Marl (F10) ( <b>LRI</b>	R K, L)			Other (E	xplain in Remarks)
Dark Su	rface (S7)							
<sup>3</sup> Indicators of	f hydrophytic vegetati	ion and w	etland hydrology mus	t be pre	sent, unl	ess distu	rbed or problematic.	
Restrictive I	_ayer (if observed):							
Type:	Roo	ck						
Depth (ir	nches):	10					Hydric Soil Presen	t? Yes <u>X</u> No
Remarks:								



Wetland CDD-5 View facing southwest



Wetland CDD-5 Soils

Phase 1

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

Project/Site: CHPE	City/County: Putnam / Washington Sampling Date: 10/13/21
Applicant/Owner: TDI	State: NY Sampling Point: WET CDD-7
Investigator(s): J. Greaves, C. Scrivner	Section, Township, Range:
Landform (hillside, terrace, etc.): Linear swale Local r	relief (concave, convex, none): Concave Slope %: 2
Subregion (LRR or MLRA): LRR R Lat: 43-42-22.90N	Long: 73-26-5.67W Datum: WGS 84
Soil Map Unit Name: CHC - Charlton fine sandy loam, 3 to 8 percent slopes	
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 Hydrologynaturally problema	
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 CDD-7
Remarks: (Explain alternative procedures here or in a separate report.) Palustrine Emergent Marsh. Edinger classification: Shallow Emergent Mars occurs between flags CDD-6 and CDD-8.	h. This community is mowed and manitained as lawn. This community
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)
X 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	
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	<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):	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:	

<u>Tree Stratum</u> (Plot size: 30' )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1.				Number of Dominant Species
2		·		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: 100.0% (A/B)
7.				Prevalence Index worksheet:
		=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15' )				OBL species 15 x 1 = 15
1.				FACW species 70 x 2 = 140
2.				FAC species 0 x 3 = 0
3				FACU species15 x 4 =60
4				UPL species0 x 5 =0
5	-			Column Totals: 100 (A) 215 (B)
6				Prevalence Index = B/A = 2.15
7				Hydrophytic Vegetation Indicators:
		=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5' )				X 2 - Dominance Test is >50%
1. <u>Lysimachia nummularia</u>	70	Yes	FACW	X 3 - Prevalence Index is ≤3.0 <sup>1</sup>
2. <u>Lythrum salicaria</u>	15	<u>No</u>	OBL	4 - Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)
3. Poa pratensis	15	<u>No</u>	FACU	
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.		<u> </u>		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	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' )				
1				Woody vines – All woody vines greater than 3.28 ft in height.
2.				
3.				Hydrophytic
4.				Vegetation Present? Yes X No
		=Total Cover		
Remarks: (Include photo numbers here or on a separa	ate sheet.)	1		
(	,			

Sampling Point: WET CDD-7

SOIL Sampling Point: WET CDD-7

Profile Desc Depth	ription: (Describe to Matrix	o the dep		ument the ox Featur		tor or co	nfirm the absence of indica	ators.)
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-4	10YR 2/2	100					Loamy/Clayey	
4-16	10YR 4/1	60	10YR 5/4	40	С	M	Loamy/Clayey I	Distinct redox concentrations
1							2 =. =.	
Type: C=Co	ncentration, D=Deple	etion, RM:	=Reduced Matrix, M	S=Mask	ed Sand	Grains.		re Lining, M=Matrix.  bblematic Hydric Soils <sup>3</sup> :
Histosol			Polyvalue Belo	ow Surfac	ce (S8) (L	RR R.		10) (LRR K, L, MLRA 149B)
	ipedon (A2)		MLRA 149B		) (OO) (I			Redox (A16) ( <b>LRR K, L, R</b> )
Black His	. , ,		Thin Dark Surf	•	(LRR R,	MLRA 1		eat or Peat (S3) (LRR K, L, R)
Hydrogei	n Sulfide (A4)		High Chroma S	Sands (S	11) (LRF	R K, L)	Polyvalue Belo	ow Surface (S8) (LRR K, L)
Stratified	Layers (A5)		Loamy Mucky	Mineral (	F1) ( <b>LRF</b>	R K, L)	Thin Dark Sur	face (S9) (LRR K, L)
X Depleted	Below Dark Surface	(A11)	Loamy Gleyed	Matrix (F	F2)		Iron-Mangane	se Masses (F12) (LRR K, L, R)
Thick Da	rk Surface (A12)		Depleted Matri	x (F3)			Piedmont Floo	odplain Soils (F19) (MLRA 149B)
	ucky Mineral (S1)		Redox Dark Su					(TA6) ( <b>MLRA 144A, 145, 149B</b> )
	leyed Matrix (S4)		Depleted Dark				Red Parent M	
	edox (S5)		? Redox Depress		3)			Dark Surface (F22)
	Matrix (S6)		Marl (F10) ( <b>LR</b>	(R K, L)			Other (Explain	ın Remarks)
Dark Sur	face (S7)							
<sup>3</sup> Indicators of	hydrophytic vegetation	on and we	etland hydrology mu	st be pre	sent. unl	ess distu	rbed or problematic.	
	ayer (if observed):		<u></u>					
Type:								
Depth (in	nches):						Hydric Soil Present?	Yes X No
Remarks:								



Wetland CDD-7 View facing north/northeast



**Wetland CDD-7 Soils** 

Phase 1

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

Project/Site: CHPE	City/County: Putnam / Washington Sampling Date: 10/13/21
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 %: 45
Subregion (LRR or MLRA): LRR R Lat: 43-42-26.03N	Long: 73-26-4.06W Datum: WGS 84
Soil Map Unit Name: CHC - Charlton fine sandy loam, 3 to 8 percent slope:	
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	<del></del>
<del></del>	
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. This upland data point is for wetland data points CDD-2, 0	
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 (F	
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	<u> </u>
Algal Mat or Crust (B4) Recent Iron Reduction in	n Tilled Soils (C6) Geomorphic Position (D2)
Iron Deposits (B5) Thin Muck Surface (C7)	· · · · · ·
Inundation Visible on Aerial Imagery (B7)Other (Explain in Remark	<u> </u>
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No X Depth (inches):	: <u></u> _
Water Table Present? Yes No X Depth (inches):	
Saturation Present? Yes No X Depth (inches):	: Wetland Hydrology Present? Yes No _X
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	evious inspections), if available:
Remarks:	

**VEGETATION** – Use scientific names of plants. Sampling Point: UPL Absolute Dominant Indicator <u>Tree Stratum</u> (Plot size: 30') Species? Status % Cover **Dominance Test worksheet:** 1. **Number of Dominant Species** That Are OBL, FACW, or FAC: 1 (A) 3. **Total Number of Dominant** 4. Species Across All Strata: 2 (B) 5. Percent of Dominant Species That Are OBL, FACW, or FAC: 6. 50.0% (A/B) Prevalence Index worksheet: =Total Cover Total % Cover of: Sapling/Shrub Stratum (Plot size: 15' OBL species x 1 = x 2 = **FACW** species x 3 = 2. FAC species 20 **FACU** species 75 3. x 4 = 5 UPL species x 5 = Column Totals: 100 385 6. 3.85 Prevalence Index = B/A = Hydrophytic Vegetation Indicators: 7. =Total Cover 1 - Rapid Test for Hydrophytic Vegetation Herb Stratum (Plot size: 5' ) 2 - Dominance Test is >50% FACU 3 - Prevalence Index is ≤3.01 1. Poa pratensis 20 4 - Morphological Adaptations<sup>1</sup> (Provide supporting 2. Setaria pumila Yes FAC data in Remarks or on a separate sheet) 10 **FACU** 3. Lotus corniculatus No 5 UPL Problematic Hydrophytic Vegetation<sup>1</sup> (Explain) 4. Vicia cracca No Cichorium intybus 5 **FACU** 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. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. 11. Herb - All herbaceous (non-woody) plants, regardless 100 =Total Cover of size, and woody plants less than 3.28 ft tall. 30' Woody Vine Stratum (Plot size: Woody vines - All woody vines greater than 3.28 ft in height. 1. Hydrophytic Vegetation Present? Yes No X =Total Cover Remarks: (Include photo numbers here or on a separate sheet.)

SOIL Sampling Point: UPL Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Redox Features Loc2 Color (moist) Color (moist) (inches) Texture Remarks 10YR 3/2 0-16 100 Sandy <sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. <sup>2</sup>Location: PL=Pore Lining, M=Matrix. **Hydric Soil Indicators:** Indicators for Problematic Hydric Soils<sup>3</sup>: 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) Piedmont Floodplain Soils (F19) (MLRA 149B) Thick Dark Surface (A12) Depleted Matrix (F3) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Mucky Mineral (S1) Redox Dark Surface (F6) Sandy Gleyed Matrix (S4) Depleted Dark Surface (F7) Red Parent Material (F21) Sandy Redox (S5) Redox Depressions (F8) Very Shallow Dark Surface (F22) Stripped Matrix (S6) Marl (F10) (LRR K, L) 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: Depth (inches): **Hydric Soil Present?** No X Yes Remarks:



Upland CDD-2, CDD-5 and CDD-7 View facing southwest



Upland CDD-2, CDD-5 and CDD-7 Soils

Phase 1

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

Project/Site: CHPE	City/County: Putnam / Washington Sampling Date: 10/13/21
Applicant/Owner: TDI	State: NY Sampling Point: WET CEE-5
Investigator(s): J. Greaves, C. Scrivner	Section, Township, Range:
	relief (concave, convex, none): Concave Slope %: 2
Subregion (LRR or MLRA): LRR R Lat: 43-42-20.93N	Long: 73-26-6.50W Datum: WGS 84
Soil Map Unit Name: CHC - Charlton fine sandy loam, 3 to 8 percent slopes	<u></u> <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 Hydrology naturally problemate	
SUMMARY OF FINDINGS – Attach site map showing sam	ppling 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 CEE-5
Remarks: (Explain alternative procedures here or in a separate report.) Palustrine Emergent Marsh. Edinger classification: Shallow Emergent Marsh	h dominated by purple loosestrife.
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	39) 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 (C	
Sediment Deposits (B2)  X Oxidized Rhizospheres o	on Living Roots (C3) Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B3) Presence of Reduced Iro	<u> </u>
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 No _X Depth (inches):	
Water Table Present? Yes No X Depth (inches):	
Surface Water Present?       Yes       No       X       Depth (inches):         Water Table Present?       Yes       No       X       Depth (inches):         Saturation Present?       Yes       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.				Total Number of Dominant Species Across All Strata:3(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 20 x 1 = 20
1. Cornus racemosa	6	Yes	FAC	FACW species 82 x 2 = 164
2. Ulmus americana	2	Yes	FACW	FAC species6 x 3 =18
3.				FACU species 2 x 4 = 8
4				UPL species 0 x 5 = 0
5.				Column Totals: 110 (A) 210 (B)
6.				Prevalence Index = B/A = 1.91
7.				Hydrophytic Vegetation Indicators:
	8	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5' )		_		X 2 - Dominance Test is >50%
1. Lysimachia nummularia	80	Yes	FACW	X 3 - Prevalence Index is ≤3.0 <sup>1</sup>
	15	No	OBL	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
				data in Remarks or on a separate sheet)
Carex lurida     Carex lurida		No No	OBL	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	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' )		_		
1. Vitis aestivalis	2	No	FACU	Woody vines – All woody vines greater than 3.28 ft in height.
2.		<del></del>		Ŭ
3.				Hydrophytic
4.				Vegetation   Present? Yes X No
···	2	=Total Cover		1100 <u>X</u> 110 <u></u>
Describer (healande whate except are horse an except are				
Remarks: (Include photo numbers here or on a separa	ate sneet.)			

Sampling Point: WET CEE-5

SOIL Sampling Point: WET CEE-5

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)	
Depth Matrix Redox Features	
(inches) Color (moist) % Color (moist) % Type <sup>1</sup> Loc <sup>2</sup> Texture	Remarks
0-10 10YR 3/2 98 10YR 4/6 2 C PL Loamy/Clayey Prominent	redox concentrations
10-13 10YR 4/1 55 10YR 5/6 30 C M Sandy Prominent	redox concentrations
	edox concentrations
	_
<sup>1</sup> Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. <sup>2</sup> Location: PL=Pore Lining,	M-Matrix
Hydric Soil Indicators: Indicators for Problematic	
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 (A	16) ( <b>LRR K, L, R</b> )
Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) 5 cm Mucky Peat or Pe	at (S3) ( <b>LRR K, L, R</b> )
Hydrogen Sulfide (A4) High Chroma Sands (S11) (LRR K, L) Polyvalue Below Surface	
Stratified Layers (A5)  Loamy Mucky Mineral (F1) (LRR K, L)  Thin Dark Surface (S9)	
X Depleted Below Dark Surface (A11) Loamy Gleyed Matrix (F2) Iron-Manganese Masse	
Thick Dark Surface (A12) Depleted Matrix (F3) Piedmont Floodplain Sc Sandy Mucky Mineral (S1) Redox Dark Surface (F6) Mesic Spodic (TA6) ( <b>M</b>	oils (F19) (MLRA 149B)
Sandy Gleyed Matrix (S4)  Sandy Gleyed Matrix (S4)  Depleted Dark Surface (F7)  Red Parent Material (F2)	•
Sandy Redox (S5) Redox Depressions (F8) Very Shallow Dark Surf	·
Stripped Matrix (S6) Marl (F10) (LRR K, L) Other (Explain in Rema	
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: Rock	
	s_X_ No
Remarks:	



Wetland CEE-5 View facing north/northeast



**Wetland CEE-5 Soils** 

Phase 1

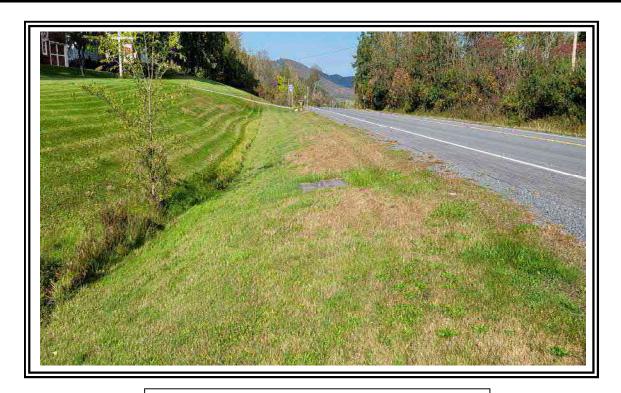
### WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: CHPE	City/County: Putnam / Washington Sampling Date: 10/13/21
Applicant/Owner: TDI	State: NY Sampling Point: UPL CEE-5
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: 43-42-20.77N	Long: 73-26-6.45W Datum: WGS 84
Soil Map Unit Name: CHC - Charlton fine sandy loam, 3 to 8 percent slope:	
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	
SUMMARY OF FINDINGS – Attach site map showing sam	npling point locations, transects, important leatures, 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 lawn.	
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 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)  Other (Fundamental Property (B7))	· · · · · ·
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:	

	Absolute	Dominant	Indicator	
ree Stratum (Plot size: 30')	% Cover	Species?	Status	Dominance Test worksheet:
<u></u>				Number of Deminent Charles
				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
				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 0 x 3 = 0
				FACU species 95 x 4 = 380
				UPL species 5 x 5 = 25
				Column Totals: 100 (A) 405 (E
				Prevalence Index = B/A = 4.05
				Hydrophytic Vegetation Indicators:
		=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
erb Stratum (Plot size:)				2 - Dominance Test is >50%
Poa pratensis	60	Yes	FACU	3 - Prevalence Index is ≤3.0 <sup>1</sup>
Plantago lanceolata	10	No	FACU	4 - Morphological Adaptations (Provide supportion)
Lotus corniculatus	10	No	FACU	data in Remarks or on a separate sheet)
Cichorium intybus	10	No	FACU	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
Taraxacum officinale	5	No	FACU	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
Pastinaca sativa	5	No	UPL	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				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:)				Woody vines – All woody vines greater than 3.28 ft in
				height.
				Hadran karta
·				Hydrophytic Vegetation
				Present? Yes No X

SOIL Sampling Point: UPL CEE-5

Profile Description: (Describe to the de	•			or or co	nfirm the absence of indicat	ors.)
Depth Matrix		x Feature		. 2	<b>-</b> .	5 .
(inches) Color (moist) %	Color (moist)	<u>%</u>	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-14 10YR 3/1 100					Loamy/Clayey	
						,
Type: C=Concentration, D=Depletion, RI	M-Poducod Matrix M	S-Mack	od Sand i	Grains	<sup>2</sup> Location: PL=Pore	Lining M-Matrix
Hydric Soil Indicators:	vi=Reduced Matrix, M	S=IVIASK	eu Sanu '	Jiaiiis.		lematic Hydric Soils <sup>3</sup> :
Histosol (A1)	Polyvalue Belo	w Surfac	e (S8) (L	RR R.		)) (LRR K, L, MLRA 149B)
Histic Epipedon (A2)	MLRA 149B		(, (-	,		edox (A16) ( <b>LRR K, L, R</b> )
Black Histic (A3)	Thin Dark Surfa	•	(LRR R,	MLRA 1		at or Peat (S3) (LRR K, L, R)
Hydrogen Sulfide (A4)	High Chroma S	Sands (S	11) (LRR	K, L)	Polyvalue Below	Surface (S8) (LRR K, L)
Stratified Layers (A5)	Loamy Mucky I	Mineral (	F1) (LRR	K, L)	Thin Dark Surfa	ce (S9) ( <b>LRR K, L</b> )
Depleted Below Dark Surface (A11)	Loamy Gleyed	Matrix (F	<del>-</del> 2)		Iron-Manganese	e Masses (F12) (LRR K, L, R)
Thick Dark Surface (A12)	Depleted Matri	x (F3)			Piedmont Flood	plain Soils (F19) (MLRA 149B)
Sandy Mucky Mineral (S1)	Redox Dark Su	ırface (F	6)		Mesic Spodic (T	(A6) (MLRA 144A, 145, 149B)
Sandy Gleyed Matrix (S4)	Depleted Dark	Surface	(F7)		Red Parent Mat	erial (F21)
Sandy Redox (S5)	Redox Depress		3)			ark Surface (F22)
Stripped Matrix (S6)	Marl (F10) ( <b>LR</b>	R K, L)			Other (Explain in	n Remarks)
Dark Surface (S7)						
3						
<sup>3</sup> Indicators of hydrophytic vegetation and v	wetland hydrology mus	st be pre	sent, uni	ess distu	rbed or problematic.	
Restrictive Layer (if observed):  Type: Rock						
Depth (inches): 14					Hydric Soil Present?	Yes No _X
Remarks:						



**Upland CEE-5 View facing north** 



**Upland CEE-5 Soils** 

# Phase 1

## SITE PHOTOGRAPHS

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

Project/Site: CHPE	City/County: Putnam / Washington Sampling Date: 10/13/21
Applicant/Owner: TDI	State: NY Sampling Point: WET CFF-4A
Investigator(s): J. Greaves, C. Scrivner	Section, Township, Range:
Landform (hillside, terrace, etc.): Linear depression Local	relief (concave, convex, none): Concave Slope %: 2
Subregion (LRR or MLRA): LRR R Lat: 43-42-20.93N	Long: 73-26-6.50W Datum: WGS 84
Soil Map Unit Name: CHC - Charlton fine sandy loam, 3 to 8 percent slope:	<del></del>
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 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 CFF-4A
Remarks: (Explain alternative procedures here or in a separate report.)  Palustrine Emergent Marsh - Linear wetland ditch. Edinger classification: Sl	hallow 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)
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 (	
Sediment Deposits (B2)  X 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 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)
X Sparsely Vegetated Concave Surface (B8)	X 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 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:	

FAC FACW	Number of Dominant Species         That Are OBL, FACW, or FAC:       5       (A)         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:         Total % Cover of:       Multiply by:         OBL species       45       x 1 =       45         FACW species       27       x 2 =       54         FAC species       21       x 3 =       63         FACU species       0       x 4 =       0         UPL species       0       x 5 =       0         Column Totals:       93       (A)       162       (B)
	Species Across All Strata:         5         (B)           Percent of Dominant Species That Are OBL, FACW, or FAC:         100.0% (A/B)           Prevalence Index worksheet:           Total % Cover of:         Multiply by:           OBL species         45         x 1 = 45           FACW species         27         x 2 = 54           FAC species         21         x 3 = 63           FACU species         0         x 4 = 0           UPL species         0         x 5 = 0           Column Totals:         93         (A)         162         (B)
	That Are OBL, FACW, or FAC: 100.0% (A/B)           Prevalence Index worksheet:           Total % Cover of:         Multiply by:           OBL species         45         x 1 = 45           FACW species         27         x 2 = 54           FAC species         21         x 3 = 63           FACU species         0         x 4 = 0           UPL species         0         x 5 = 0           Column Totals:         93         (A)         162         (B)
	Total % Cover of:         Multiply by:           OBL species         45         x 1 = 45           FACW species         27         x 2 = 54           FAC species         21         x 3 = 63           FACU species         0         x 4 = 0           UPL species         0         x 5 = 0           Column Totals:         93         (A)         162         (B)
	OBL species       45       x 1 =       45         FACW species       27       x 2 =       54         FAC species       21       x 3 =       63         FACU species       0       x 4 =       0         UPL species       0       x 5 =       0         Column Totals:       93       (A)       162       (B)
	FACW species       27       x 2 =       54         FAC species       21       x 3 =       63         FACU species       0       x 4 =       0         UPL species       0       x 5 =       0         Column Totals:       93       (A)       162       (B)
	FAC species       21       x 3 =       63         FACU species       0       x 4 =       0         UPL species       0       x 5 =       0         Column Totals:       93       (A)       162       (B)
FACW	FACU species $0$ $x = 4$ $0$ UPL species $0$ $x = 5$ $0$ Column Totals: $0$ $0$ $0$ $0$ $0$ $0$ $0$ $0$ $0$ $0$
	UPL species         0         x 5 =         0           Column Totals:         93         (A)         162         (B)
	Column Totals: 93 (A) 162 (B)
	Branch and Index B/A
	Prevalence Index = $B/A = 1.74$
	Hydrophytic Vegetation Indicators:
	1 - Rapid Test for Hydrophytic Vegetation
	X 2 - Dominance Test is >50%
OBL	X 3 - Prevalence Index is ≤3.0 <sup>1</sup>
FACW	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
OBL	data in Remarks or on a separate sheet)
FAC	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
FAC	<del>-</del>
	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
	Definitions of Vegetation Strata:
	<b>Tree</b> – 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.
	<b>Herb</b> – 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

Sampling Point: WET CFF-4A

SOIL Sampling Point: WET CFF-4A

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)									
Depth Matrix		Redox Features				_			
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks	
0-6	10YR 2/1	98	10YR 4/6	2	<u>C</u>	PL_	Loamy/Clayey	Prominent redox concentrations	
6-14	2.5Y 4/1	65	10YR 4/6	20	С	M	Mucky Loam/Clay	Prominent redox concentrations	
			10YR 2/1	5	С	M		Distinct redox concentrations	
			2.5Y 5/6	10	С	M		Prominent redox concentrations	
¹Type: C=Co	oncentration, D=Deple	etion, RM	=Reduced Matrix, MS	= S=Mask	ed Sand	Grains.	<sup>2</sup> Location: Pl	L=Pore Lining, M=Matrix.	
<sup>1</sup> Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. <sup>2</sup> Location: PL=Pore Lining, M=Matrix.  Hydric Soil Indicators:  Indicators for Problematic Hydric Soils <sup>3</sup>									
Histosol (A1) ? Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B)									
Histic Ep	pipedon (A2)		MLRA 149B)					rairie Redox (A16) (LRR K, L, R)	
Black Histic (A3)  Thin Dark Surface (S9) (LRR R, MLRA 149B)							149B) 5 cm Mu	cky 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)								k Surface (S9) (LRR K, L)	
X Depleted Below Dark Surface (A11) Loamy Gleyed Matrix (F2)							? Iron-Manganese Masses (F12) (LRR K, L, R)		
Thick Da	ark Surface (A12)	Depleted Matrix (F3)				Piedmont Floodplain Soils (F19) (MLRA 149B)			
Sandy M	lucky Mineral (S1)	X Redox Dark Surface (F6)				Mesic Spodic (TA6) ( <b>MLRA 144A, 145, 149B</b> )			
Sandy G	leyed 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) ( <b>LRR K, L</b> )				Other (Explain in Remarks)		
Dark Su	rface (S7)	_				<u> </u>			
<sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.									
Restrictive Layer (if observed):									
Type: Rock									
Depth (ir	nches):	14					Hydric Soil Presen	nt? Yes X No	
Remarks:									



Wetland CFF-4A View facing south



**Wetland CFF-4A Soils** 

Phase 1

Project/Site: CHPE	City/County: Putnam / Washington Sampling Date: 10/13/21
Applicant/Owner: TDI	State: NY Sampling Point: UPL CFF-4A
Investigator(s): J. Greaves, C. Scrivner	Section, Township, Range:
Landform (hillside, terrace, etc.): Hillslope Local	relief (concave, convex, none): Convex Slope %: 45
Subregion (LRR or MLRA): LRR R Lat: 43-42-20.07N	Long: 73-26-6.49W Datum: WGS 84
Soil Map Unit Name: CHC - Charlton fine sandy loam, 3 to 8 percent slope	
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	
	npling point locations, transects, important features, etc.
	T
Hydrophytic Vegetation Present?  Hydric Soil Present?  Yes  No X  Yes  No X	Is the Sampled Area within a Wetland? Yes No _X
Wetland Hydrology Present?  Yes  No X  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 (I	
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)  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)	FAC-Neutral Test (D5)
	FAC-Neutral Test (D3)
Field Observations:	
Surface Water Present? Yes No X Depth (inches):  Water Table 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 rightology Fresent: TesNo
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	avious inspections) if available.
Describe Necorded Data (stream gauge, monitoring well, aerial priotos, pre	svious inspections), ii avaliable.
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: 6 (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 30 x 2 = 60			
2				FAC species 20 x 3 = 60			
3				FACU species45 x 4 =180			
4				UPL species 5 x 5 = 25			
5				Column Totals: 100 (A) 325 (B)			
6.				Prevalence Index = B/A = 3.25			
7.				Hydrophytic Vegetation Indicators:			
		=Total Cover		1 - Rapid Test for Hydrophytic Vegetation			
Herb Stratum (Plot size: 5')		<u>-</u>		2 - Dominance Test is >50%			
1. Phalaris arundinacea	30	Yes	FACW	3 - Prevalence Index is ≤3.0 <sup>1</sup>			
2. Setaria pumila	20	Yes	FAC	4 - Morphological Adaptations <sup>1</sup> (Provide supporting			
Cichorium intybus	10	Yes	FACU	data in Remarks or on a separate sheet)			
4. Lotus corniculatus	10	Yes	FACU	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)			
5. Taraxacum officinale	10	Yes	FACU	The disease of burdens and modern developed by			
6. Trifolium pratense	10	Yes	FACU	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.			
7. Vicia cracca	5	No	UPL	Definitions of Vegetation Strata:			
8. Plantago lanceolata	5	No	FACU	-			
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')				Woody vines – All woody vines greater than 3.28 ft in			
1				height.			
2.							
3.				Hydrophytic			
4.				Vegetation Present? Yes No X			
		=Total Cover					
Remarks: (Include photo numbers here or on a separa	ato shoot )	-10101 00101					
remarks. (include prioto numbers here or on a separ	ale Sileel.)						

Sampling Point: UPL CFF-4A

SOIL Sampling Point: UPL CFF-4A

		the dep				or or co	nfirm the absence of indic	ators.)
Depth	Matrix			x Featur		. 2	<b>-</b> .	5 .
(inches)	Color (moist)	%	Color (moist)	<u>%</u>	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-16	10YR 3/2	100					Sandy	
							<del></del>	
								_
1Typo: C-Co	ncentration, D=Deple	tion DM	- Poducod Matrix M	S_Mack	od Sand (	Grains	<sup>2</sup> Location: PL-Po	re Lining, M=Matrix.
Hydric Soil I		tion, Kivi-	=Reduced Matrix, M	S=IVIASKI	eu Sanu v	Jianis.		oblematic Hydric Soils <sup>3</sup> :
Histosol (			Polyvalue Belo	w Surfac	e (S8) (L	RR R.		10) (LRR K, L, MLRA 149B)
	pedon (A2)		MLRA 149B		(00) (=	,		Redox (A16) ( <b>LRR K, L, R</b> )
Black His			Thin Dark Surfa		(LRR R,	MLRA 1		eat or Peat (S3) (LRR K, L, R)
Hydroger	Sulfide (A4)		High Chroma S	Sands (S	11) (LRR	K, L)		ow Surface (S8) (LRR K, L)
Stratified	Layers (A5)		Loamy Mucky I	Mineral (	F1) (LRR	K, L)	Thin Dark Sur	face (S9) (LRR K, L)
Depleted	Below Dark Surface	(A11)	Loamy Gleyed	Matrix (F	<del>-</del> 2)		Iron-Mangane	se Masses (F12) (LRR K, L, R)
Thick Da	rk Surface (A12)		Depleted Matri	x (F3)			Piedmont Floo	odplain Soils (F19) (MLRA 149B)
Sandy M	ucky Mineral (S1)		Redox Dark Su	ırface (F	6)		Mesic Spodic	(TA6) (MLRA 144A, 145, 149B)
Sandy GI	eyed Matrix (S4)		Depleted Dark	Surface	(F7)		Red Parent M	aterial (F21)
Sandy Re			Redox Depress		3)			Dark Surface (F22)
	Matrix (S6)		Marl (F10) ( <b>LR</b>	<b>R K, L</b> )			Other (Explain	n in Remarks)
Dark Sur	face (S7)							
3								
	hydrophytic vegetatio	n and we	etland hydrology mus	st be pre	sent, unle	ess distui	bed or problematic.	
Type:	ayer (if observed):							
_								
Depth (in	cnes):						Hydric Soil Present?	Yes No _X
Remarks:								



**Upland CFF-4A View facing south** 



**Upland CFF-4A Soils** 

Phase 1

Project/Site: CHPE	City/County: Putnam / Washington Sampling Date: 10/13/21
Applicant/Owner: TDI	State: NY Sampling Point: WET CGG-3
Investigator(s): J. Greaves, C. Scrivner	Section, Township, Range:
Landform (hillside, terrace, etc.): Depression Local	relief (concave, convex, none): Concave Slope %: 1
Subregion (LRR or MLRA): LRR R Lat: 43-42-15.60N	Long: 73-26-7.73W Datum: WGS 84
Soil Map Unit Name: CHC - Charlton fine sandy loam, 3 to 8 percent slopes	ss, very stony 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 Hydrology naturally problema	<del></del> -
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 X No	within a Wetland? Yes X No
Wetland Hydrology Present? Yes X No	If yes, optional Wetland Site ID: Near Flag CGG-3
PalustrineScrub Shrub. 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) Water-Stained Leaves (E	<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 (	
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)	
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remark	
X Sparsely Vegetated Concave Surface (B8)	X FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes 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 (Plot size: 30' )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:			
<ol> <li>Ulmus americana</li> <li>Ulmus americana</li> </ol>	30	Yes	FACW	Number of Dominant Species That Are OBL, FACW, or FAC:5(A)			
3.       4.				Total Number of Dominant Species Across All Strata:5(B)			
<ul><li>5.</li><li>6.</li></ul>				Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)			
7.				Prevalence Index worksheet:			
	30	=Total Cover		Total % Cover of: Multiply by:			
Sapling/Shrub Stratum (Plot size:)				OBL species30 x 1 =30			
1. Cornus amomum	50	Yes	FACW	FACW species 100 x 2 = 200			
2. Lonicera morrowii	10	No	FACU	FAC species 20 x 3 = 60			
3. Rhamnus cathartica	5	No	FAC	FACU species10 x 4 =40			
4.				UPL species 0 x 5 = 0			
5.				Column Totals: 160 (A) 330 (B)			
6.				Prevalence Index = B/A =2.06			
7.				Hydrophytic Vegetation Indicators:			
	65	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation			
Herb Stratum (Plot size: 5')		•		X 2 - Dominance Test is >50%			
1. Lythrum salicaria	25	Yes	OBL	X 3 - Prevalence Index is ≤3.0 <sup>1</sup>			
2. Solidago gigantea	15	Yes	FACW	4 - Morphological Adaptations <sup>1</sup> (Provide supporting			
3. Solidago rugosa	15	Yes	FAC	data in Remarks or on a separate sheet)			
Typha angustifolia	5	No	OBL	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)			
5. Cornus amomum	5	No	FACW				
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.	65	=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' )		_ Total Gover					
				Woody vines – All woody vines greater than 3.28 ft in height.			
				noight.			
2. 3.				Hydrophytic			
		· ——		Vegetation No. 2012			
4.				Present?			
		=Total Cover					
Remarks: (Include photo numbers here or on a separa	ate sheet.)						

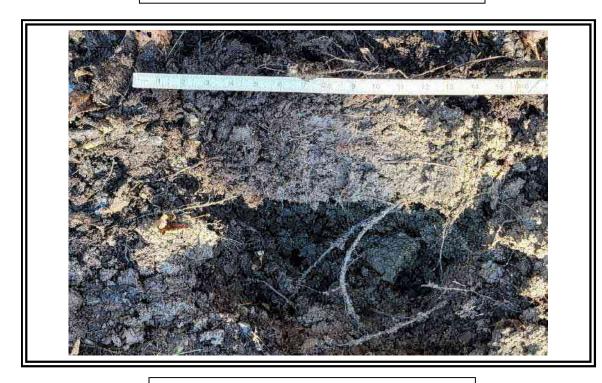
Sampling Point: WET CGG-3

SOIL Sampling Point: WET CGG-3

	. `	o the dep				tor or co	nfirm the absence of inc	licators.)	
Depth	Matrix	0/		x Featur		12	Tantona	Damada	
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks	
0-7	10YR 2/1	100					Muck		
7-16	10YR 4/1	70	10YR 4/4	30	С	М	Sandy	Distinct redox concentrations	
<sup>1</sup> Type: C=Cd	oncentration, D=Deple	etion RM	-Reduced Matrix M	S-Mask	ed Sand	Grains	<sup>2</sup> l ocation: Pl –	Pore Lining, M=Matrix.	
Hydric Soil		etion, ixivi	=reduced Matrix, M	0-IVIASK	eu Sanu	Grains.		Problematic Hydric Soils <sup>3</sup> :	
Histosol			Polyvalue Belo	w Surfac	ce (S8) ( <b>L</b>	RR R,		(A10) (LRR K, L, MLRA 149B)	
	pipedon (A2)		MLRA 149B		` , ,			ie 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 Mucky	y Peat or Peat (S3) (LRR K, L, R)	
Hydroge	n Sulfide (A4)		High Chroma S	Sands (S	11) (LRF	R K, L)	Polyvalue Below Surface (S8) (LRR K, L)		
Stratified	d Layers (A5)		Loamy Mucky I	Mineral (	(F1) ( <b>LRF</b>	R K, L)	Thin Dark S	Surface (S9) (LRR K, L)	
X Depleted	d Below Dark Surface	(A11)	Loamy Gleyed	Matrix (I	F2)			nese Masses (F12) (LRR K, L, R)	
	ark Surface (A12)		Depleted Matrix	, ,				loodplain Soils (F19) ( <b>MLRA 149B</b> )	
	lucky Mineral (S1)		Redox Dark Su					dic (TA6) ( <b>MLRA 144A, 145, 149B</b> )	
	leyed Matrix (S4)		Depleted Dark		, ,			Material (F21)	
	edox (S5)		Redox Depress		3)			w Dark Surface (F22)	
	Matrix (S6)		Marl (F10) ( <b>LR</b>	K N, L)			Other (Expi	ain in Remarks)	
Dark Su	rface (S7)								
<sup>3</sup> Indicators of	f hydrophytic vegetati	on and w	etland hydrology mus	st be pre	esent unl	ess distu	rbed or problematic.		
	_ayer (if observed):	o aa	onana nyarotogy ma	01 20 p. 0					
Type:	,								
Depth (in	nches):						Hydric Soil Present?	Yes X No	
Remarks:							l		



Wetland CGG-3 View facing west



Wetland CGG-3 Soils

Phase 1

Project/Site: CHPE	City/County: Putnam / Washington Sampling Date: 10/13/21
Applicant/Owner: TDI	State: NY Sampling Point: UPL CGG-3
Investigator(s): J. Greaves, C. Scrivner	Section, Township, Range:
	relief (concave, convex, none): Concave Slope %: 40
Subregion (LRR or MLRA): LRR R Lat: 43-42-15.53N	Long: 73-26-7.37W Datum: WGS 84
Soil Map Unit Name: CHC - Charlton fine sandy loam, 3 to 8 percent slopes	
·	
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	
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 X No	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 (Fundamin Removal)	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):	
Water Table Present? Yes No X Depth (inches): Saturation Present? Yes No X Depth (inches):	
(includes capillary fringe)	Wetland Hydrology Present? Yes No _X
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	L avious inspections), if available:
Dodolibo Novordou Data (otroatii gaago, monteg, ac.i.a. p, p	vious inspections, in available.
Remarks:	
Tomano.	

	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/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 0 x 3 = 0
				FACU species 85 x 4 = 340
				UPL species 15 x 5 = 75
				Column Totals: 100 (A) 415 (E
				Prevalence Index = B/A = 4.15
				Hydrophytic Vegetation Indicators:
		=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
erb Stratum (Plot size: 5' )				2 - Dominance Test is >50%
Lolium pratense	70	Yes	FACU	3 - Prevalence Index is ≤3.0 <sup>1</sup>
Lotus corniculatus	15	No	FACU	4 - Morphological Adaptations <sup>1</sup> (Provide supporti
Rubia peregrina	15	No	UPL	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 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
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:)				Woody vines – All woody vines greater than 3.28 ft in
				height.
<u></u>				
				Hydrophytic
				Vegetation Present? Yes No X
		=Total Cover		

SOIL Sampling Point: UPL CGG-3

		o the dep				tor or co	nfirm the absence of indic	ators.)
Depth	Matrix	0/		x Featur		12	Tantona	Damada
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-5	10YR 3/2	100					Sandy	
5-16	10YR 4/2	90	10YR 5/4	10	С	M	Loamy/Clayey	Distinct redox concentrations
<sup>1</sup> Type: C=Cor	ncentration, D=Deple	etion, RM	=Reduced Matrix, M	S=Mask	ed Sand	Grains.	<sup>2</sup> Location: PL=Po	re Lining, M=Matrix.
Hydric Soil Ir							Indicators for Pro	oblematic Hydric Soils <sup>3</sup> :
Histosol (	A1)		Polyvalue Belo	w Surfac	ce (S8) ( <b>I</b>	_RR R,	2 cm Muck (A	10) (LRR K, L, MLRA 149B)
	pedon (A2)		MLRA 149B	,				Redox (A16) ( <b>LRR K, L, R</b> )
Black His			Thin Dark Surfa					Peat or Peat (S3) (LRR K, L, R)
	Sulfide (A4)		High Chroma S					ow Surface (S8) (LRR K, L)
	Layers (A5) Below Dark Surface	(A11)	Loamy Mucky I			( K, L)		rface (S9) (LRR K, L) ese Masses (F12) (LRR K, L, R)
	k Surface (A12)	(7(1)	X Depleted Matrix		2)			odplain Soils (F19) (MLRA 149B)
	ucky Mineral (S1)		Redox Dark Su		6)			(TA6) ( <b>MLRA 144A, 145, 149B</b> )
	eyed Matrix (S4)		Depleted Dark	•			Red Parent M	
Sandy Re	edox (S5)		Redox Depress	sions (F	3)		Very Shallow	Dark Surface (F22)
Stripped I	Matrix (S6)		Marl (F10) ( <b>LR</b>	R K, L)			Other (Explain	n in Remarks)
Dark Surf	ace (S7)							
31 11 4								
	hydrophytic vegetation ayer (if observed):	on and we	etiana nyarology mus	st be pre	esent, uni	ess aistu	rbed or problematic.	
Type:	ayer (ii observed).							
Depth (inc	ches).						Hydric Soil Present?	Yes X No
							Tiyano oon Tresent.	103 <u>X</u> 110
Remarks:								



**Upland CGG-3 View facing southeast** 



**Upland CGG-3 Soils** 

Phase 1

Project/Site: CHPE	City/County: Putnam/Washington Sampling Date: 10/13/21
Applicant/Owner: TDI	State: NY Sampling Point: CHH-2 Wet
Investigator(s): N. Frazer, S. Berryman	Section, Township, Range:
Landform (hillside, terrace, etc.): depression Local	relief (concave, convex, none): concave Slope %: 0
Subregion (LRR or MLRA): LRR R Lat: 43-42-13.32N	Long: 73-26-07.82W Datum:
Soil Map Unit Name: Kingsbury silty clay	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	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:
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 (	· ·
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  Outline of Blain and Bl	
Sediment Deposits (B2)  Oxidized Rhizospheres  Deposits (R2)	
Drift Deposits (B3) Presence of Reduced Ir	<u> </u>
Algal Mat or Crust (B4)  Recent Iron Reduction i  Thin Music Surface (G7)	
Iron Deposits (B5)  Thin Muck Surface (C7)  Other (Figure in Personal Programs (B7)	
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remai	<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 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:
Remarks:	
incinans.	

Tree Stratum (Plot size:30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
. Pinus strobus	5	Yes	FACU	Number of Descinant Chasins
2.				Number of Dominant Species That Are OBL, FACW, or FAC: 3 (A)
3.				
4.				Total Number of Dominant Species Across All Strata: 5 (B)
5.				Percent of Dominant Species
6.				That Are OBL, FACW, or FAC: 60.0% (A/B)
7.				Prevalence Index worksheet:
	5	=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15' )		•		OBL species 0 x 1 = 0
1. Pinus strobus	5	No	FACU	FACW species 10 x 2 = 20
2. Juniperus virginiana	2	No	FACU	FAC species 88 x 3 = 264
3. Cornus racemosa	70	Yes	FAC	FACU species 42 x 4 = 168
4. Lonicera tatarica	5	No	FACU	UPL species 5 x 5 = 25
5. Viburnum lentago	8	No No	FAC	Column Totals: 145 (A) 477 (B)
6.				Prevalence Index = B/A = 3.29
7.				Hydrophytic Vegetation Indicators:
· -	90	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5' )		, 10101 0010.		X 2 - Dominance Test is >50%
Solidago canadensis	20	Yes	FACU	3 - Prevalence Index is ≤3.0 <sup>1</sup>
Securigera varia	5	No	UPL	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
	10	Yes	FAC	data in Remarks or on a separate sheet)
	10	Yes	FACW	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
				Problematic mydrophytic vegetation (Explain)
5. Juniperus virginiana 6	5	No No	FACU	<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
9		_		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
	50	=Total Cover		of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size: 30' )		•		
1.				<b>Woody vines</b> – All woody vines greater than 3.28 ft in height.
2.				<u> </u>
3.				Hydrophytic
4.				Vegetation   Present?   Yes X No
		=Total Cover		11000
		_		
Remarks: (Include photo numbers here or on a sepa	irate sheet.)			

SOIL Sampling Point CHH-2 Wet

Depth	Matrix			x Featur			onfirm the absence of	,
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-10	10YR 4/1	95	10YR 4/2	5	<u> </u>	M	Loamy/Clayey	Faint redox concentrations
10-22	10YR 5/1	85	10YR 5/4	15	<u> </u>	_M_	Loamy/Clayey	Distinct redox concentrations
1							2:	
	oncentration, D=Deple	etion, RN	/I=Reduced Matrix, M	/IS=Masi	ked Sand	d Grains.		=Pore Lining, M=Matrix.
Hydric Soil   Histosol			Polyvalue Belo	w Surfa	ca (S8) (	I DD D		r Problematic Hydric Soils <sup>3</sup> : k (A10) (LRR K, L, MLRA 149B)
	pipedon (A2)		MLRA 149B		ce (30) (	LKK K,		nirie Redox (A16) (LRR K, L, R)
Black Hi			Thin Dark Surfa	•	(LRR R	. MLRA 1		ky Peat or Peat (S3) ( <b>LRR K, L, R</b> )
	n Sulfide (A4)		High Chroma S				· —	Below Surface (S8) (LRR K, L)
	l Layers (A5)		Loamy Mucky I					Surface (S9) (LRR K, L)
	Below Dark Surface	(A11)	Loamy Gleyed			, –,		ganese Masses (F12) ( <b>LRR K, L, R</b> )
	ark Surface (A12)	(,	X Depleted Matrix		- –,			Floodplain Soils (F19) (MLRA 149B)
Sandy M	lucky Mineral (S1)		Redox Dark Su		<del>-</del> 6)			odic (TA6) ( <b>MLRA 144A, 145, 149B</b> )
	leyed Matrix (S4)		Depleted Dark		-			nt Material (F21)
—— Sandy R	edox (S5)		Redox Depress	sions (F	8)		Very Shal	low Dark Surface (F22)
 Stripped	Matrix (S6)		Marl (F10) ( <b>LR</b>	RK, L)			Other (Ex	plain in Remarks)
Dark Su	rface (S7)						<del>_</del>	
	f hydrophytic vegetation	on and v	vetland hydrology mu	ıst be pr	esent, ui	nless dist	urbed or problematic.	
Restrictive I	Layer (if observed): none	2						
Depth (ir		<del>,</del>					Hydric Soil Present	? Yes X No
Remarks:								
								S Field Indicators of Hydric Soils,
version 7.0,	2015 Errata. (http://w	ww.nics.	.usua.gov/internet/F3	SE_DOC	OWENT	S/IIICS 14.	2p2_051293.docx)	



Wetland CHH-2- View facing north



Wetland CHH-2- Soils

Phase 1

Project/Site: CHPE	City/County: Putnam/Washington Sampling Date: 10/13/21
Applicant/Owner: TDI	State: NY Sampling Point: CHH-4 Wet
Investigator(s): N. Frazer, S. Berryman	Section, Township, Range:
Landform (hillside, terrace, etc.): depression Local	Il relief (concave, convex, none): concave Slope %: 0
Subregion (LRR or MLRA): LRR R Lat: 43-42-13.32N	Long: 73-26-07.82W Datum:
Soil Map Unit Name: Kingsbury silty clay	NWI classification: PEM
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	urbed? Are "Normal Circumstances" present? Yes x No
Are Vegetation, Soil, or Hydrologynaturally problem	
SUMMARY OF FINDINGS – Attach site map showing san	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:
Remarks: (Explain alternative procedures here or in a separate report.) Cattail 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) X Water-Stained Leaves	
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  Drift Panagita (B2)	
Drift Deposits (B3) — Presence of Reduced II	
Algal Mat or Crust (B4)  Iron Deposits (B5)  Recent Iron Reduction Thin Muck Surface (C7	· / — · · /
Iron Deposits (B5) Thin Muck Surface (C7 Inundation Visible on Aerial Imagery (B7) Other (Explain in Rema	· · · · · · · · · · · · · · · · · · ·
Sparsely Vegetated Concave Surface (B8)	X FAC-Neutral Test (D5)
Field Observations:  Surface Water Present? Yes x No Depth (inches)	). 0.E
	· ———
Water Table Present?  Yes No _x Depth (inches)  Saturation Present?  Yes X No Depth (inches)	
(includes capillary fringe)	) Wetland nydrology Fresent: No
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pr	
gauge, memory uen, aenar prietes, pr	ones ineposition, in analysis.
Remarks:	

Tree Stratum (Plot size: 30' )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1.		Ореспез	Otatus	
2.				Number of Dominant Species That Are OBL, FACW, or FAC:(A)
3. 4.				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: 100.0% (A/B)
7.				Prevalence Index worksheet:
		=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size:15')		•		OBL species <u>85</u> x 1 = <u>85</u>
1. Cornus amomum	5	Yes	FACW	FACW species 5 x 2 = 10
2.				FAC species 2 x 3 = 6
3.				FACU species 0 x 4 = 0
				UPL species 0 x 5 = 0
-				Column Totals: 92 (A) 101 (B)
6		·		Prevalence Index = B/A = 1.10
7				Hydrophytic Vegetation Indicators:
1.	5	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Harb Stratum (Dietaize, Fl. )		- Total Cover		I—
Herb Stratum (Plot size: 5' )	70	V	ODI	X 2 - Dominance Test is >50%
1. Typha angustifolia	70	Yes	OBL	X 3 - Prevalence Index is ≤3.0¹
2. Lythrum salicaria	5	No	OBL	4 - Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)
3. Euthamia graminifolia	2	No	<u>FAC</u>	
4. Eleocharis palustris	10	No	OBL	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
11				and greater than or equal to 3.28 ft (1 m) tall.
12.				Herb – All herbaceous (non-woody) plants, regardless
	87	=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.				
2				Hydrophytic
1				Vegetation Present? Yes X No
T		=Total Cover		riesent: res_XNo
Remarks: (Include photo numbers here or on a separ	ate sheet.)			

Sampling Point: CHH-4 Wet

SOIL Sampling Point CHH-4 Wet

Profile Desc Depth	cription: (Describe t Matrix	o the de	•	ı <b>ment tl</b> < Featur		ator or co	onfirm the absence of	f indicators.)
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-10	10YR 4/1	95	10YR 4/2	5	С	М	Loamy/Clayey	Faint redox concentrations
10-22	10YR 5/1	85	10YR 5/4	15	С	М	Loamy/Clayey	Distinct redox concentrations
								Distillet redox concentrations
<sup>1</sup> Type: C=Co	oncentration, D=Depl	etion RN		 IS=Masl	ked Sand		<sup>2</sup> Location: P	L=Pore Lining, M=Matrix.
Black Hi Hydroge Stratified Depleted Thick Da Sandy M Sandy G Sandy R Stripped Dark Sul	(A1) pipedon (A2) stic (A3) n Sulfide (A4) d Layers (A5) d Below Dark Surface ark Surface (A12) flucky Mineral (S1) fleyed Matrix (S4) fledox (S5) Matrix (S6) rface (S7)		Polyvalue Belo MLRA 149B Thin Dark Surfa High Chroma S Loamy Mucky I Loamy Gleyed X Depleted Matrix Redox Dark Su Depleted Dark Redox Depress Marl (F10) (LR	) ace (S9) ands (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)	2 cm Mu Coast Pr 5 cm Mu Polyvalu Thin Dar Iron-Man Piedmon Mesic Sp Red Pare Very Sha	or Problematic Hydric Soils <sup>3</sup> : ck (A10) (LRR K, L, MLRA 149B) rairie 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) riganese Masses (F12) (LRR K, L, R) at Floodplain Soils (F19) (MLRA 149B) rodic (TA6) (MLRA 144A, 145, 149B) ent Material (F21) allow Dark Surface (F22) xplain in Remarks)
Type: Depth (ir	nonenches):	9					Hydric Soil Preser	nt? Yes X No
	m is revised from Noi 2015 Errata. (http://w							CS Field Indicators of Hydric Soils,



Wetland CHH-4- View facing west



Wetland CHH-4- Soils

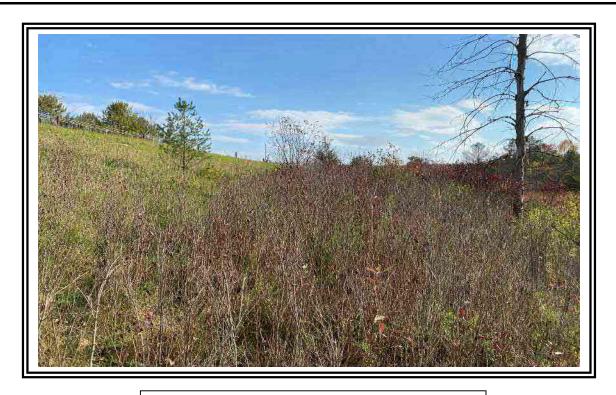
Phase 1

Project/Site: CHPE	City/County: Putnam/Washington Sampling Date: 10/13/21
Applicant/Owner: TDI	State: NY Sampling Point: CHH-2 & 4 Upi
Investigator(s): N. Frazer, S. Berryman	Section, Township, Range:
• , ,	cal relief (concave, convex, none): none Slope %: 2
Subregion (LRR or MLRA): LRR R Lat: 43-42-13.32N	Long: 73-26-07.82W Datum:
Soil Map Unit Name: Kingsbury silty clay	NWI classification: N/A
Are climatic / hydrologic conditions on the site typical for this time of year	
Are Vegetation, Soil, or Hydrology significantly dis	· · · · · · · · · _ ·
Are Vegetation , Soil , or Hydrology naturally proble	
<del></del> <del></del>	ampling 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 old field and scrub shrub upland.	
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	
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 Odd	
1 <del></del>	es on Living Roots (C3) Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B3) Presence of Reduced	
Algal Mat or Crust (B4)  Recent Iron Reduction  This Muck Surface (C	
Iron Deposits (B5) — Thin Muck Surface (C Inundation Visible on Aerial Imagery (B7) — Other (Explain in Rem	
Inundation Visible on Aerial Imagery (B7)Other (Explain in Rem Sparsely Vegetated Concave Surface (B8)	narks) Microtopographic Relief (D4)  FAC-Neutral Test (D5)
	rac-neutial rest (D3)
Field Observations:	
Surface Water Present? Yes No x Depth (inche	
Water Table Present? Yes No x Depth (inche	
Saturation Present? Yes No x Depth (inche	es):   Wetland Hydrology Present? Yes No _X
(includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos,	nravious inspections) if available:
Describe Necorded Data (stream gauge, monitoring well, aerial priotos,	previous inspections, in 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)
				(2)
				Percent of Dominant Species
				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')				OBL species0 x 1 =0
Cornus racemosa	70	Yes	FAC	FACW species 0 x 2 = 0
Lonicera tatarica	15	No	FACU	FAC species 90 x 3 = 270
	-			FACU species100 x 4 =400
				UPL species 1 x 5 = 5
				Column Totals: 191 (A) 675 (E
				Prevalence Index = B/A = 3.53
				Hydrophytic Vegetation Indicators:
	85	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
erb Stratum (Plot size: 5' )				2 - Dominance Test is >50%
	70	Vaa	FACIL	
Lotus corniculatus	70	Yes	FACU	3 - Prevalence Index is ≤3.0 <sup>1</sup>
Equisetum arvense	20	No	FAC_	4 - Morphological Adaptations <sup>1</sup> (Provide supporti data in Remarks or on a separate sheet)
Daucus carota	1	No	UPL	
Solidago canadensis	15	No	FACU	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
				<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 heigh
).				<b>2</b>
				Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
	106	=Total Cover		<b>Herb</b> – All herbaceous (non-woody) plants, regardles of size, and woody plants less than 3.28 ft tall.
and a Vine Otratama (Districts 2001)	100	- Total Cover		of size, and woody plants less than 3.20 it tall.
oody Vine Stratum (Plot size: 30')				Woody vines – All woody vines greater than 3.28 ft
				height.
				Hydrophytic
				Vegetation
				Present?
		=Total Cover		

SOIL Sampling Point CHH-2 & 4 Upl

Profile Desc Depth	ription: (Describe t Matrix	to the de		<b>ument t</b> l x 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
0-3	10YR 4/2	100			<del></del>		Loamy/Clayey	
3-8	10YR 4/2	98	10YR 4/3	2	С	M	Loamy/Clayey	Faint redox concentrations
8-22	10YR 4/2	88	10YR 4/3	2	С	М	Loamy/Clayey	Faint redox concentrations
			10YR 6/2	10	D	М		
	oncentration, D=Depl	etion, RM	I=Reduced Matrix, N	/IS=Mas	ked Sand	d Grains.		=Pore Lining, M=Matrix.
Hydric Soil I			Daharaha Dala	Of	(00) (			Problematic Hydric Soils <sup>3</sup> :
Histosol	(A1) ipedon (A2)		Polyvalue Belo		ce (58) (	LKK K,		k (A10) ( <b>LRR K, L, MLRA 149B</b> ) irie Redox (A16) ( <b>LRR K, L, R</b> )
Black His			Thin Dark Surf	•	) (LRR R	. MLRA 1		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					Surface (S9) (LRR K, L)
Depleted	Below Dark Surface	e (A11)	Loamy Gleyed	Matrix (	F2)		Iron-Mang	anese Masses (F12) (LRR K, L, R)
Thick Da	rk Surface (A12)		Depleted Matri	x (F3)			Piedmont	Floodplain Soils (F19) (MLRA 149B)
Sandy M	ucky Mineral (S1)		Redox Dark Su	ırface (F	6)		Mesic Spo	odic (TA6) ( <b>MLRA 144A, 145, 149B</b> )
	leyed Matrix (S4)		Depleted Dark					nt Material (F21)
	edox (S5)		Redox Depress		8)			ow Dark Surface (F22)
	Matrix (S6)		Marl (F10) ( <b>LR</b>	RK,L)			Other (Exp	olain in Remarks)
Dark Sur	face (S7)							
<sup>3</sup> Indicators of	hydrophytic vegetat	ion and w	etland hydrology mu	ıst be pı	resent, ui	nless dist	urbed or problematic.	
	ayer (if observed):		, 0,		,		i i	
Type: _	non	е						
Depth (in	iches):						Hydric Soil Present	? Yes No _X
Remarks:	<u> </u>		<u> </u>					
			-					S Field Indicators of Hydric Soils,
Version 7.0, 2	2015 Errata. (http://w	ww.nrcs.	usda.gov/Internet/F	SE_DOO	CUMENT	S/nrcs14	2p2_051293.docx)	



Upland CHH-2 and CHH-4- View facing south



**Upland CHH-2 and CHH-4- Soils** 

Phase 1

Project/Site: CHPE	City/County: Putnam/Washington Sampling Date: 10/13/21
Applicant/Owner: TDI	State: NY Sampling Point: CHH-16 Wet
Investigator(s): N. Frazer, S. Berryman	Section, Township, Range:
Landform (hillside, terrace, etc.): depression Local	relief (concave, convex, none): concave Slope %: 0
Subregion (LRR or MLRA): LRR R Lat: 43-42-08.04N	Long: 73-26-06.94W Datum:
Soil Map Unit Name: Kingsbury silty clay	NWI classification: PEM
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	If yes, optional Wetland Site ID:
Remarks: (Explain alternative procedures here or in a separate report.)	
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)
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	
Drift Deposits (B3) Presence of Reduced Ir	
Algal Mat or Crust (B4)  — Recent Iron Reduction i	
Iron Deposits (B5)  Thin Muck Surface (C7)  Other (Exclusive Research	
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remai	
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)	
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, pro	evious inspections), if available:
Remarks:	

	Dominant	Indicator	
Absolute % Cover	Species?	Status	Dominance Test worksheet:
			Number of Dominant Species
			That Are OBL, FACW, or FAC: 2 (A)
			Total Number of Dominant
			Species Across All Strata: 2 (B)
			Percent of Dominant Species
			That Are OBL, FACW, or FAC:100.0% (A/E
			Prevalence Index worksheet:
	=Total Cover		Total % Cover of: Multiply by:
			OBL species 90 x 1 = 90
			FACW species 0 x 2 = 0
			FAC species 2 x 3 = 6
			FACU species 0 x 4 = 0
			UPL species 6 x 5 = 30
			Column Totals: 98 (A) 126 (E
			Prevalence Index = B/A =1.29
			Hydrophytic Vegetation Indicators:
	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
			X 2 - Dominance Test is >50%
35	Yes	OBL	X 3 - Prevalence Index is ≤3.0 <sup>1</sup>
5	No	OBL	4 - Morphological Adaptations (Provide supporti
2	No	FAC	data in Remarks or on a separate sheet)
1	No	UPI	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
			<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
	165		
			Definitions of Vegetation Strata:
			Tree – Woody plants 3 in. (7.6 cm) or more in
			diameter at breast height (DBH), regardless of heigh
			Sapling/shrub – Woody plants less than 3 in. DBH
			and greater than or equal to 3.28 ft (1 m) tall.
			Harb All barbassays (non woody) plants regardle
98	=Total Cover		<b>Herb</b> – All herbaceous (non-woody) plants, regardles of size, and woody plants less than 3.28 ft tall.
			<b>Woody vines</b> – All woody vines greater than 3.28 ft
			height.
			Hydrophytic
			Vegetation
			Present? Yes X No
	=Total Cover		
	35 5 2 1 5 50	=Total Cover  =Total Cover  =Total Cover  35	=Total Cover  =Total Cover  =Total Cover  35

SOIL Sampling Point CHH-16 Wet

Profile Desc	cription: (Describe t	o the de	pth needed to docu	ıment tl	ne indica	tor or co	onfirm the absence o	f indicators.)
Depth	Matrix		Redox	x Featur	es			
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-4	10YR 3/2	100					Loamy/Clayey	
4-5	10YR 4/2	60	7.5YR 4/4	40	<u> </u>	M	Loamy/Clayey	Distinct redox concentrations
5-10	7.5YR 2.5/1	80	7.5YR 3/4	20	C	M	Loamy/Clayey	Distinct redox concentrations
10-21	2.5Y 4/1	60	10YR 3/6	30	<u> </u>	M	Loamy/Clayey	Prominent redox concentrations
			10YR 4/6	5	<u>C</u>	M		Prominent redox concentrations
			10YR 2/1	5	<u> </u>	M		Distinct redox concentrations
<sup>1</sup> Type: C=C	oncentration, D=Depl	etion, RM	1=Reduced Matrix, M	/IS=Mas	ked Sand	l Grains.	<sup>2</sup> Location: P	PL=Pore Lining, M=Matrix.
Hydric Soil	Indicators:						Indicators f	or Problematic Hydric Soils <sup>3</sup> :
Histosol	(A1)		? Polyvalue Belo	w Surfa	ce (S8) (I	LRR R,		ıck (A10) ( <b>LRR K, L, MLRA 149B</b> )
Histic E <sub>l</sub>	oipedon (A2)		MLRA 149B	)			? Coast P	rairie Redox (A16) ( <b>LRR K, L, R</b> )
Black Hi	istic (A3)		Thin Dark Surfa	ace (S9)	(LRR R	, MLRA 1	<b>149B</b> )5 cm Μι	ucky Peat or Peat (S3) ( <b>LRR K, L, R</b> )
Hydroge	en Sulfide (A4)		High Chroma S	Sands (S	11) ( <b>LRF</b>	R K, L)	Polyvalu	ie Below Surface (S8) ( <b>LRR K, L</b> )
Stratified	d Layers (A5)		Loamy Mucky	Mineral	(F1) ( <b>LRI</b>	R K, L)	Thin Da	rk Surface (S9) ( <b>LRR K, L</b> )
X Deplete	d Below Dark Surface	(A11)	Loamy Gleyed	Matrix (	F2)		Iron-Mar	nganese Masses (F12) ( <b>LRR K, L, R</b> )
<u> </u>	ark Surface (A12)	,	X Depleted Matri		,			nt Floodplain Soils (F19) ( <b>MLRA 149B</b> )
	Mucky Mineral (S1)		X Redox Dark Su		6)			podic (TA6) ( <b>MLRA 144A, 145, 149B</b> )
	Gleyed Matrix (S4)		Depleted Dark	,	,			ent Material (F21)
	Redox (S5)		? Redox Depress					allow Dark Surface (F22)
	Matrix (S6)		Marl (F10) (LR	,	3)			Explain in Remarks)
	rface (S7)		Wan (1 10) (ER	, <i>_</i> /				explain in remarks)
Dark ou	nace (Gr)							
<sup>3</sup> Indicators o	f hydrophytic vegetati	on and w	etland hydrology mι	ıst be pr	esent, ur	nless dist	urbed or problematic.	
Restrictive	Layer (if observed):							
Type:	none	е						
Depth (i	nches):						Hydric Soil Prese	nt? Yes X 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 CHH-16- View facing west



Wetland CHH-16- Soils

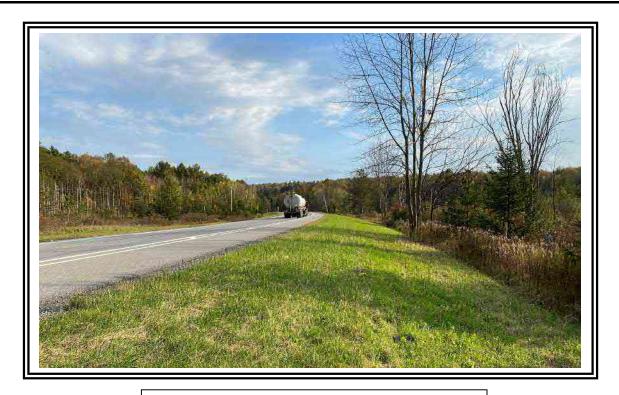
Phase 1

Project/Site: CHPE	City/County: Putnam/Washington Sampling Date: 10/13/21
Applicant/Owner: TDI	State: NY Sampling Point: СНН-16 Upl
Investigator(s): N. Frazer, S. Berryman	Section, Township, Range:
	relief (concave, convex, none): none Slope %: 2
Subregion (LRR or MLRA): LRR R Lat: 43-42-08.04N	Long: 73-26-06.94W Datum:
Soil Map Unit Name: Kingsbury silty clay	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 problema	
SUMMARY OF FINDINGS – Attach site map showing sam	
Hydrophytic Vegetation Present?         Yes         No         X           Hydric Soil Present?         Yes         No         X           Wetland Hydrology Present?         Yes         No         X	Is the Sampled Area within a Wetland? Yes No X If yes, optional Wetland Site ID:
Remarks: (Explain alternative procedures here or in a separate report.)  Mowed roadside.	
Monod roddside.	
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 in	
<u> </u>	
Iron Deposits (B5)  Thin Muck Surface (C7)	<del></del> · · · · · · · · · · · ·
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:	

	A booksto	Dominant	Indicator	
ree Stratum (Plot size:)	Absolute % Cover	Dominant Species?	Indicator 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)
				(B)
·				Percent of Dominant Species
·				That Are OBL, FACW, or FAC: 0.0% (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 0 x 3 = 0
				FACU species 100 x 4 = 400
		-		<u> </u>
				UPL species 8 x 5 = 40
				Column Totals: 108 (A) 440 (B
				Prevalence Index = B/A = 4.07
				Hydrophytic Vegetation Indicators:
		=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
erb Stratum (Plot size: 5' )				2 - Dominance Test is >50%
Poa pratensis	100	Yes	FACU	3 - Prevalence Index is ≤3.0 <sup>1</sup>
Pastinaca sativa	7	No	UPL	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
				data in Remarks or on a separate sheet)
Securigera varia	1	No	UPL	
·				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
• -				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
				be present, unless disturbed or problematic.
·				Definitions of Vegetation Strata:
- <u></u>				Tree Woody plants 2 in (7.6 cm) or more in
				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.
		<u> </u>		and greater than or equal to 3.26 it (1 iii) tall.
2				Herb - All herbaceous (non-woody) plants, regardles
	108	=Total Cover		of size, and woody plants less than 3.28 ft tall.
/oody Vine Stratum (Plot size:)				Woody vines – All woody vines greater than 3.28 ft i
				height.
·				
	•			Hydrophytic
				Vegetation           Present?         Yes         No _ X
		<u> </u>		11050Ht. 105 HO_X
		=Total Cover		

SOIL Sampling Point CHH-16 Upl

Profile Desc Depth	ription: (Describe t Matrix	o the de		ı <b>ment tl</b> k Featur		ator or co	onfirm the absence of indicators.)	
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture Remarks	
0-8	10YR 2/2						Loamy/Clayey	
8-17	10YR 3/3	95	10YR 4/6	5	С	M	Loamy/Clayey Distinct redox concent	rations
17-21	10YR 4/3	85	10YR 4/6	15	С	М	Loamy/Clayey Distinct redox concent	rations
<sup>1</sup> Type: C=Co	oncentration, D=Deple	etion, RN	/I=Reduced Matrix, M	S=Mas	ked Sand	d Grains.	<sup>2</sup> Location: PL=Pore Lining, M=Matrix.	
Hydric Soil	ndicators:						Indicators for Problematic Hydric Soil	s³:
Histosol	` '		Polyvalue Belov		ce (S8) (	LRR R,	2 cm Muck (A10) ( <b>LRR K, L, MLRA</b>	-
	pipedon (A2)		MLRA 149B)				Coast Prairie Redox (A16) (LRR K,	
Black Hi	` ,		Thin Dark Surfa					-
	n Sulfide (A4) I Layers (A5)		High Chroma S Loamy Mucky N	-			Polyvalue Below Surface (S8) (LRR Thin Dark Surface (S9) (LRR K, L)	<b>N</b> , L)
	Below Dark Surface	(A11)	Loamy Gleyed			ι <b>κ ικ, ∟</b> )	Iron-Manganese Masses (F12) (LRI	RKIR)
	ark Surface (A12)	(, (, , ,	Depleted Matrix		/		Piedmont Floodplain Soils (F19) (M	-
	lucky Mineral (S1)		Redox Dark Su		<del>-</del> 6)		Mesic Spodic (TA6) (MLRA 144A, 1	•
Sandy G	leyed Matrix (S4)		Depleted Dark	Surface	e (F7)		Red Parent Material (F21)	
Sandy R	edox (S5)		Redox Depress		8)		Very Shallow Dark Surface (F22)	
	Matrix (S6)		Marl (F10) ( <b>LRF</b>	R K, L)			Other (Explain in Remarks)	
— Dark Sui	face (S7)							
3Indicators of	f bydrophytia vogototi	on and u	estland bydrology mu	ot ho ni	rocent	alaaa diat	turbed or problematic.	
	_ayer (if observed):	JII allu W	retiand hydrology mu	st be pi	esent, ui	iless dist		
Type:	none	<b>.</b>						
Depth (ir	nches):						Hydric Soil Present? Yes N	o X
Remarks:							<u> </u>	
This data for							2.0 to include the NRCS Field Indicators of Hydrid	Soils,
Version 7.0,	2015 Errata. (http://w	ww.nrcs.	usda.gov/Internet/FS	E_DOC	CUMENT	S/nrcs14	2p2_051293.docx)	



**Upland CHH-16- View facing south** 



**Upland CHH-16- Soils** 

Phase 1

Project/Site: CHPE	City/County: Putnam/ Washington Sampling Date: 10/12/21
Applicant/Owner: TDI	State: NY Sampling Point: C2A-8 Wet
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: 43-42-00.28N	Long: 73-26-04.07W Datum:
Soil Map Unit Name: Covington silty clay loam	NWI classification: PEM
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 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:
Remarks: (Explain alternative procedures here or in a separate report.) Cattail 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	· · · · · · · · · · · · · · · · · · ·
X High Water Table (A2) Aquatic Fauna (B13) Aut Deposits (B45)	Moss Trim Lines (B16)
X Saturation (A3) — Marl Deposits (B15) Water Marks (B1) Hydrogen Sulfide Odor (	C1) Dry-Season Water Table (C2) Crayfish Burrows (C8)
Sediment Deposits (B2)  Oxidized Rhizospheres of	· · · · · · · · · · · · · · · · · · ·
Drift Deposits (B3)  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	<del></del>
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):	Wetland Hydrology Present? Yes X No
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	evious inspections), if available:
Remarks:	

ree Stratum (Plot size: 30' )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:			
. Cornus racemosa	5	Yes	FAC	Number of Dominant Species			
				That Are OBL, FACW, or FAC:4 (A)			
				Total Number of Dominant			
. ]				Species Across All Strata: 5 (B)			
				Percent of Dominant Species			
i				That Are OBL, FACW, or FAC: 80.0% (A/B)			
·	-			Prevalence Index worksheet:			
	5	=Total Cover		Total % Cover of: Multiply by:			
Sapling/Shrub Stratum (Plot size:15')				OBL species55 x 1 =55			
. Cornus racemosa	15	Yes	FAC	FACW species 12 x 2 = 24			
Lonicera tatarica	5	Yes	FACU	FAC species 50 x 3 = 150			
				FACU species 5 x 4 = 20			
				UPL species 0 x 5 = 0			
j				Column Totals: 122 (A) 249 (B)			
). 				Prevalence Index = B/A = 2.04			
				Hydrophytic Vegetation Indicators:			
	20	20 =Total Cover 1 - Rapid Test for Hydrophytic Vege					
Herb Stratum (Plot size: 5' )				X 2 - Dominance Test is >50%			
 Typha angustifolia	40	Yes	OBL	X 3 - Prevalence Index is ≤3.0 <sup>1</sup>			
Equisetum hyemale	30	Yes	FAC	4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)  Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)			
Solidago gigantea	10	No	FACW				
Lycopus americanus	5	No	OBL				
o. Onoclea sensibilis	2	No	FACW	<sup>1</sup> Indicators of hydric soil and wetland hydrology must			
S. Sphagnum moss species	15	No		be present, unless disturbed or problematic.			
. Lythrum salicaria	10	No	OBL	Definitions of Vegetation Strata:			
i.				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.				<b>Herb</b> – All herbaceous (non-woody) plants, regardless			
	112	=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 ir			
				height.			
1.							
3.				Hydrophytic Vegetation			
l				Present? Yes X No			
		=Total Cover					
Remarks: (Include photo numbers here or on a sepa		•					

SOIL Sampling Point C2A-8 Wet

Depth	Matrix			x Featur			onfirm the absence of indi	,
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-11	10YR 2/1	100					Muck	
11-20	10YR 2/1	100					Mucky Loam/Clay	
	oncentration, D=Depl	etion, RN	1=Reduced Matrix, N	/IS=Mas	ked Sand	d Grains.		re Lining, M=Matrix.
Hydric Soil								oblematic Hydric Soils <sup>3</sup> :
Histosol			Polyvalue Belo		ce (S8) (	LRR R,		10) (LRR K, L, MLRA 149B)
X Black Hi	oipedon (A2)		MLRA 149B Thin Dark Surfa	•	(I RR R	MIRA		Redox (A16) ( <b>LRR K, L, R</b> ) reat or Peat (S3) ( <b>LRR K, L, R</b> )
	n Sulfide (A4)		High Chroma S				· —	ow Surface (S8) (LRR K, L)
	d Layers (A5)		Loamy Mucky					face (S9) (LRR K, L)
	d Below Dark Surface	(A11)	Loamy Gleyed			, ,		se Masses (F12) (LRR K, L, R)
Thick Da	ark Surface (A12)		Depleted Matri	x (F3)			Piedmont Floo	odplain Soils (F19) ( <b>MLRA 149B</b> )
	lucky Mineral (S1)		Redox Dark Su		-			(TA6) ( <b>MLRA 144A, 145, 149B</b> )
	Gleyed Matrix (S4)		Depleted Dark				Red Parent M	
	ledox (S5)		Redox Depress	•	8)		Other (Explain	Dark Surface (F22)
	Matrix (S6) rface (S7)		Marl (F10) ( <b>LR</b>	K K, L)			Other (Explain	iii Keiliaiks)
Bank Gan	11400 (01)							
<sup>3</sup> Indicators of	f hydrophytic vegetati	on and w	etland hydrology mu	ust be pr	esent, ui	nless dis	turbed or problematic.	
Restrictive I	Layer (if observed):							
Type:	none	е						
Depth (ir	nches):						Hydric Soil Present?	Yes X No
Remarks:							•	



Wetland C2A-8- View facing west



Wetland C2A-8- Soils

Phase 1

Project/Site: CHPE	City/County: Putnam/Washington Sampling Date: 10/12/21
Applicant/Owner: TDI	State: NY Sampling Point: C2A-12 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: 43-42-00.28N	Long: 73-26-04.07W Datum:
Soil Map Unit Name: Covington silty clay loam	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	· · · · · · · · · · · · · ·
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:
Scrub shrub at this data point location. Wetland turns to ditch in the vicinity	
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	——————————————————————————————————————
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 (	to the contract of the contrac
Sediment Deposits (B2)  Oxidized Rhizospheres of Programs of Reduced by	
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 Remar	<del></del>
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)
Field Observations:  Surface Water Present? Yes No x Depth (inches):	
Saturation Present? Yes x No Depth (inches): (includes capillary fringe)	:2 Wetland Hydrology Present? Yes X No
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	evious inspections) if available:
Describe recorded Data (stream gauge, monitoring well, acrial priotos, pre	wides inspections), if available.
Remarks:	
Culvert present under driveway between flags C2A-18 and C2A-19.	

Tree Stratum (Plot size: 30' )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:		
1. Pinus strobus	1	No No	FACU			
2. Rhamnus cathartica	5	Yes	FAC	Number of Dominant Species That Are OBL, FACW, or FAC:3(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: 60.0% (A/B)		
7				Prevalence Index worksheet:		
	6	=Total Cover		Total % Cover of: Multiply by:		
Sapling/Shrub Stratum (Plot size:15')				OBL species0 x 1 =0		
1. Cornus racemosa	45	Yes	FAC	FACW species 20 x 2 = 40		
2. Lonicera tatarica	15	No	FACU	FAC species95 x 3 =285		
3. Pinus strobus	2	No	FACU	FACU species 53 x 4 =212		
4. Cornus amomum	15	No	FACW	UPL species0 x 5 =0		
5				Column Totals: 168 (A) 537 (B)		
6.				Prevalence Index = B/A = 3.20		
7				Hydrophytic Vegetation Indicators:		
	77	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation		
Herb Stratum (Plot size: 5')				X 2 - Dominance Test is >50%		
Equisetum hyemale	35	Yes	FAC	3 - Prevalence Index is ≤3.0 <sup>1</sup>		
2. Cornus racemosa	10	No	FAC	4 - Morphological Adaptations <sup>1</sup> (Provide supporting		
3. Sphagnum moss species	10	No		data in Remarks or on a separate sheet)		
4. Solidago canadensis	30	Yes	FACU	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)		
5. Cornus amomum	5	No	FACW	<sup>1</sup> Indicators of hydric soil and wetland hydrology must		
6				be present, unless disturbed or problematic.		
7				Definitions of Vegetation Strata:		
8				Tree – Woody plants 3 in. (7.6 cm) or more in		
9				diameter at breast height (DBH), regardless of height.		
10				Sapling/shrub – Woody plants less than 3 in. DBH		
11				and greater than or equal to 3.28 ft (1 m) tall.		
12				Herb – All herbaceous (non-woody) plants, regardless		
	90	=Total Cover		of size, and woody plants less than 3.28 ft tall.		
Woody Vine Stratum (Plot size:)				Woody vines – All woody vines greater than 3.28 ft in		
1. Vitis aestivalis	5	Yes	FACU	height.		
2				Hydrophytic		
3				Vegetation		
4				Present?		
	5	=Total Cover				
Remarks: (Include photo numbers here or on a separate	rate sheet.)					

Sampling Point: C2A-12 Wet

SOIL Sampling Point C2A-12 Wet

	cription: (Describe t	o the de				ator or co	onfirm the absence of indicate	ors.)
Depth	Matrix			Featur		. 2		
(inches)	Color (moist)	<u>%</u>	Color (moist)		Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-10	10YR 2/1	100					Loamy/Clayey	
10-15	10YR 5/2	80	10YR 4/4		C	M	Loamy/Clayey Dist	inct redox concentrations
15-20	10YR 4/1	65	10YR 4/6	35	<u>C</u>	M	Loamy/Clayey Prom	inent redox concentrations
	oncentration, D=Deple	etion, RN	1=Reduced Matrix, M	S=Masl	ked Sand	d Grains.	<sup>2</sup> Location: PL=Pore L	
Hydric Soil			Dalvaralus Dalar		(CO) (		Indicators for Proble	-
— Histosol			Polyvalue Below		ce (58) (I	LKK K,		(LRR K, L, MLRA 149B)
Black Hi	oipedon (A2)		Thin Dark Surfa		(I RR R	MI RA 1		dox (A16) ( <b>LRR K, L, R</b> ) or Peat (S3) ( <b>LRR K, L, R</b> )
	n Sulfide (A4)		High Chroma S		-		· —	Surface (S8) ( <b>LRR K, L</b> )
	l Layers (A5)		Loamy Mucky I					e (S9) ( <b>LRR K, L</b> )
	d Below Dark Surface	(A11)	Loamy Gleyed					Masses (F12) ( <b>LRR K, L, R</b> )
Thick Da	ark Surface (A12)		X Depleted Matrix	(F3)			Piedmont Floodpl	lain Soils (F19) ( <b>MLRA 149B</b> )
Sandy M	lucky Mineral (S1)		Redox Dark Su	rface (F	6)		Mesic Spodic (TA	6) (MLRA 144A, 145, 149B)
	sleyed Matrix (S4)		Depleted Dark				Red Parent Mater	
	edox (S5)		Redox Depress	`	8)		Very Shallow Dar	
I — · · ·	Matrix (S6)		Marl (F10) ( <b>LR</b> l	K K, L)			Other (Explain in	Remarks)
Dark Sur	rface (S7)							
<sup>3</sup> Indicators o	f hydrophytic vegetati	on and w	etland hydrology mu	st be pr	esent, ur	nless dist	urbed or problematic.	
	Layer (if observed):		, ,,				•	
Type:	none	)						
Depth (ir	nches):						Hydric Soil Present?	Yes X No
Remarks:								
			_				2.0 to include the NRCS Field I	ndicators of Hydric Soils,
Version 7.0,	2015 Errata. (http://w	ww.nrcs.	usda.gov/Internet/FS	E_DOC	CUMENT	S/nrcs14	2p2_051293.docx)	



Wetland C2A-12- View facing south



Wetland C2A-12- Soils

Phase 1

Project/Site: CHPE	City/County: Putnam/Washington Sampling Date: 10/12/21
Applicant/Owner: TDI	State: NY Sampling Point: C2A-8 Upl
Investigator(s): N. Frazer, C. Einstein	Section, Township, Range:
	relief (concave, convex, none): convex Slope %: 2
Subregion (LRR or MLRA): LRR R Lat: 43-42-00.28N	Long: 73-26-04.07W Datum:
Soil Map Unit Name: Covington silt clay loam	NWI classification: N/A
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes x No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly distur	· · · · · · · · · · · · · · · · ·
Are Vegetation, Soil, or Hydrology naturally problem	
	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/ successional old field data points for upland C2A-8 and 0	C2A-12.
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 (	
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  Oxidized Rhizospheres	
Presence of Reduced Ir	
Algal Mat or Crust (B4)  — Recent Iron Reduction i	
Iron Deposits (B5)  Thin Muck Surface (C7)	
Inundation Visible on Aerial Imagery (B7) Other (Explain in Rema	
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, pro	evious inspections), if available:
Remarks:	
Remarks.	

	Absolute	Dominant	Indicator			
Tree Stratum (Plot size:30')	% Cover	Species?	Status	Dominance Test worksheet:		
1				Number of Dominant Species		
2.				That Are OBL, FACW, or FAC: 2 (A)		
i.				Total Number of Dominant		
i				Species Across All Strata: 4 (B)		
5.				Descent of Deminant Species		
5.				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		
. Cornus racemosa	10	Yes	FAC	FACW species 0 x 2 = 0		
2.				FAC species 50 x 3 = 150		
				FACU species 55 x 4 = 220		
				UPL species 10 x 5 = 50		
ii				Column Totals: 115 (A) 420 (B		
				Prevalence Index = B/A = 3.65		
				Hydrophytic Vegetation Indicators:		
·	10	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation		
Herb Stratum (Plot size: 5' )		rotal Gover		2 - Dominance Test is >50%		
I. Solidago canadensis	30	Yes	FACU	3 - Prevalence Index is ≤3.0 <sup>1</sup>		
2. Equisetum hyemale	30	Yes	FAC	4 - Morphological Adaptations <sup>1</sup> (Provide supportin		
3. Pastinaca sativa	5	No	UPL	data in Remarks or on a separate sheet)		
	5	No	UPL	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)		
Daucus carota  Galium boreale	5	No	FAC	FTODIeTHatic Trydrophytic Vegetation (Explain)		
	25	Yes	FACU	<ul> <li>Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.</li> </ul>		
6. Poa pratensis 7. Cornus racemosa	5	No	FAC	Definitions of Vegetation Strata:		
		INO		Definitions of Vegetation Strata.		
3.				Tree – Woody plants 3 in. (7.6 cm) or more in		
9.				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		
	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				height.		
				Hydrophytic		
2				Vegetation		
3.						
		=Total Cover		Present?		

SOIL Sampling Point C2A-8 Upl

Depth	Matrix	o the de		rment ti k Featur		ator or co	onfirm the absence of	i indicators.)
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-10	10YR 4/3	100					Loamy/Clayey	
10-17	10YR 5/3	98	10YR 5/8	2		M	Loamy/Clayey	Prominent redox concentrations
			_				_	
	ncentration, D=Depl	etion, RM	I=Reduced Matrix, M	IS=Mas	ked Sand	d Grains.		L=Pore Lining, M=Matrix.
Hydric Soil I Histosol			Polyvalue Belo	w Surfa	ce (S8) (	I RR R		or Problematic Hydric Soils <sup>3</sup> : ck (A10) (LRR K, L, MLRA 149B)
	ipedon (A2)		MLRA 149B		00 (00) (	LICIT IX,		rairie Redox (A16) (LRR K, L, R)
Black His			Thin Dark Surfa		(LRR R	, MLRA 1		cky Peat or Peat (S3) ( <b>LRR K, L, R</b> )
Hydroger	n Sulfide (A4)		High Chroma S	ands (S	311) ( <b>LR</b> I	R K, L)	Polyvalu	e Below Surface (S8) (LRR K, L)
Stratified	Layers (A5)		Loamy Mucky I	Mineral	(F1) ( <b>LR</b>	RK, L)	Thin Dar	k Surface (S9) ( <b>LRR K, L</b> )
Depleted	Below Dark Surface	(A11)	Loamy Gleyed	Matrix (	F2)		Iron-Man	iganese Masses (F12) ( $\mathbf{LRR}\ \mathbf{K},\ \mathbf{L},\ \mathbf{R})$
Thick Da	rk Surface (A12)		Depleted Matri	x (F3)			Piedmon	t Floodplain Soils (F19) ( <b>MLRA 149B</b>
	ucky Mineral (S1)		Redox Dark Su		-			oodic (TA6) ( <b>MLRA 144A, 145, 149B</b> )
	leyed Matrix (S4)		Depleted Dark					ent Material (F21)
	edox (S5)		Redox Depress		8)			allow Dark Surface (F22)
	Matrix (S6)		Marl (F10) ( <b>LR</b>	R K, L)			Other (E	xplain in Remarks)
Dark Sur	face (S7)							
<sup>3</sup> Indicators of	hydrophytic vegetati	on and w	etland hydrology mu	ıst be pı	esent, u	nless dist	urbed or problematic.	
	.ayer (if observed):							
Type: _	none	e						
Depth (in	iches):						Hydric Soil Preser	nt? Yes No X
								CS Field Indicators of Hydric Soils,
Version 7.0, 2	2015 Errata. (http://w	ww.nrcs.	usda.gov/Internet/FS	SE_DOO	CUMENT	S/nrcs14	2p2_051293.docx)	



Upland C2A-8 and C2A-12- View facing north



Upland C2A-8 and C2A-12- Soils

Phase 1

Project/Site: CHPE	City/County: Putnam/Washington Sampling Date: 10/12/21
Applicant/Owner: TDI	State: NY Sampling Point: C2B-3 Wet
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: 43-41-52.80N	Long: 73-25-57.77W Datum:
Soil Map Unit Name: Hollis-Charlton association	NWI classification: PEM
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	
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.)  Cattail 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	<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 (	
Sediment Deposits (B2)  Oxidized Rhizospheres  Oxidized Rhizospheres	
Drift Deposits (B3) Presence of Reduced In	
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)	X FAC-Neutral Test (D5)
	A PACHEURA TEST (BS)
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)	:0 Wetland Hydrology Present? Yes _X No
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	evious inspections) if available:
Describe recorded Data (stream gauge, monitoring well, acrial photos, pre	Tribus inspections), if available.
Remarks:	
Culvert under Route 22 at flag C2B-7.	

<u>Tree Stratum</u> (Plot size: 30' )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1				Number of Dominant Species
2.				That Are OBL, FACW, or FAC: (A)
3. 4.				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 species108 x 1 =108
1. Cornus amomum	8	Yes	FACW	FACW species10 x 2 =20
2.				FAC species0 x 3 =0
3.				FACU species 0 x 4 = 0
4.				UPL species 0 x 5 = 0
5.				Column Totals: 118 (A) 128 (B)
6.				Prevalence Index = B/A = 1.08
7.				Hydrophytic Vegetation Indicators:
	8	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5' )				X 2 - Dominance Test is >50%
Typha angustifolia	98	Yes	OBL	X 3 - Prevalence Index is ≤3.0 <sup>1</sup>
Lythrum salicaria	10	No	OBL	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
3. Cornus amomum	2	No	FACW	data in Remarks or on a separate sheet)
4.			TAOW	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5.				1 Toblematic Hydrophytic Vegetation (Explain)
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 and greater than or equal to 3.28 ft (1 m) tall.
12.				
· · · · · · · · · · · · · · · · · · ·	110	=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.				height.
2.				
3.				Hydrophytic Vegetation
4.				Present? Yes X No
		=Total Cover		
Remarks: (Include photo numbers here or on a separ	rate sheet \			
Tremarks. (include prioto numbers here of on a separ	ate sheet.)			

Sampling Point: C2B-3 Wet

SOIL Sampling Point C2B-3 Wet

		o the de				itor or co	onfirm the absence of indicators.)	
Depth	Matrix	%		x Featur		Loc <sup>2</sup>	Touture	
(inches)	Color (moist)		Color (moist)		Type <sup>1</sup>	LOC	Texture Remarks	
0-3	10YR 2/1	100					Muck	
3-16	10YR 2/1	100					Loamy/Clayey	
16-22	N 4/	100					Loamy/Clayey	
			_					
	ncentration, D=Deple	etion, RM	l=Reduced Matrix, M	/IS=Mas	ked Sand	l Grains.		
Hydric Soil In			Dobardua Bala	w Curfo	oo (CO) (I	DD D	Indicators for Problematic Hydric Soils <sup>3</sup> :	B)
— Histosol (	pedon (A2)		Polyvalue Belo MLRA 149B		Je (36) (I	LKK K,	2 cm Muck (A10) (LRR K, L, MLRA 149 Coast Prairie Redox (A16) (LRR K, L, R	-
Black His			Thin Dark Surfa	,	(LRR R	, MLRA 1		
Hydrogen	Sulfide (A4)		High Chroma S	Sands (S	311) ( <b>LR</b> F	R K, L)	Polyvalue Below Surface (S8) (LRR K, I	_)
	Layers (A5)		Loamy Mucky I			R K, L)	Thin Dark Surface (S9) (LRR K, L)	
	Below Dark Surface	(A11)	Loamy Gleyed		F2)		Iron-Manganese Masses (F12) (LRR K,	
	rk Surface (A12)		Depleted Matrix		.e.)		Piedmont Floodplain Soils (F19) (MLRA	
	ucky Mineral (S1) eyed Matrix (S4)		Redox Dark Su Depleted Dark				Mesic Spodic (TA6) (MLRA 144A, 145, Red Parent Material (F21)	1430)
Sandy Re			Redox Depress				Very Shallow Dark Surface (F22)	
	Matrix (S6)		Marl (F10) ( <b>LR</b>		-,		Other (Explain in Remarks)	
Dark Surf				, ,				
3Indicators of	budranhutia vagatati	an and w	atland hydrology my	ist ha nu	acont ur	ologo diet	turbad ar prablamatia	
	ayer (if observed):	on and w	etiand hydrology mit	ist be pr	esent, ur	iless dist	turbed or problematic.	
Type:	none	)						
Depth (in	ches):						Hydric Soil Present? Yes X No	
Remarks:								
	n is revised from Nor 2015 Errata. (http://w						n 2.0 to include the NRCS Field Indicators of Hydric So 12n2 051293 docx)	ls,
V 0101011 1.0, 2	10 TO Errata: (http://w	WW.11100.	usua.gov/internet/1	JL_D00	OWLIN	0/11/00 14/	1252_001200.d00x)	



Wetland C2B-3- View facing west



Wetland C2B-3- Soils

Phase 1

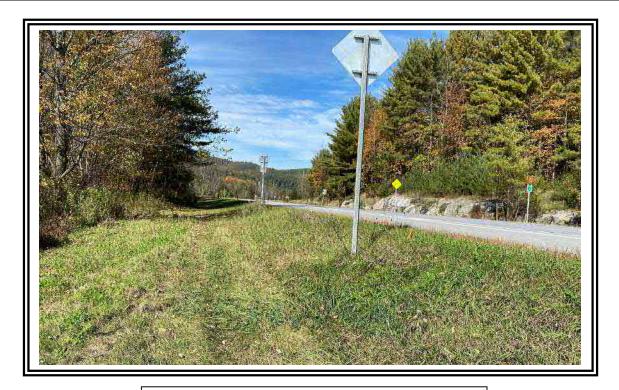
Project/Site: CHPE	City/County: Putnam/Washington Sampling Date: 10/12/21
Applicant/Owner: TDI	State: NY Sampling Point: C2B-3 Upl
Investigator(s): N. Frazer, C. Einstein	Section, Township, Range:
· · · · · ·	relief (concave, convex, none): none Slope %: 0
Subregion (LRR or MLRA): LRR R Lat: 43-41-52.80N	Long: 73-25-57.77W Datum:
Soil Map Unit Name: Hollis-Charlton association	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	pling 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? 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 (I	
High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)
Saturation (A3)Marl Deposits (B15)	Dry-Season Water Table (C2)
Water Marks (B1) Hydrogen Sulfide Odor (	· · · · · · · · · · · · · · · · · · ·
Sediment Deposits (B2)  Oxidized Rhizospheres of the control of th	
Presence of Reduced Iro	<u> </u>
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 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:	
Remarks.	

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:0 (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 species0 x1 =0
1				FACW species 0 x 2 = 0
2.				FAC species0 x 3 =0
3.				FACU species 87 x 4 = 348
4.				UPL species 30 x 5 = 150
5.				Column Totals: 117 (A) 498 (B)
6.				Prevalence Index = B/A = 4.26
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	75	Yes	FACU	3 - Prevalence Index is ≤3.0 <sup>1</sup>
Pastinaca sativa	15	No	UPL	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
	2			data in Remarks or on a separate sheet)
3. Cirsium arvense		No No	FACU	
4. Daucus carota	10	No No	<u>UPL</u>	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5. Vicia cracca	5	No	UPL	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
6. Solidago canadensis	10	<u>No</u>	FACU	be present, unless disturbed or problematic.
7				Definitions of Vegetation Strata:
8				Tree – Woody plants 3 in. (7.6 cm) or more in
9.				diameter at breast height (DBH), regardless of height.
10				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
	117	=Total Cover		of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size: 30')		-		Washing Allingahaning protection 2 20 ft in
1.				Woody vines – All woody vines greater than 3.28 ft in height.
2.				
2				Hydrophytic
		<del></del>		Vegetation           Present?         Yes         No _ X _
4.		=Total Cover		Tresent: Tes No_X_
		-		
Remarks: (Include photo numbers here or on a separate or	rate sheet.)			

Sampling Point: C2B-3 Upl

SOIL Sampling Point C2B-3 Upl

	•	o the de	•			ator or co	onfirm the absence of	f indicators.)
Depth (inches)	Matrix Color (moist)	%	Color (moist)	x Featur %	es Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-3	10YR 2/1	100	Color (moist)		Туре		Loamy/Clayey	stony fill material
3-16	10YR 4/1	90	10YR 3/6	10			Loamy/Clayey	Prominent redox concentrations
			10111 0/0		<u> </u>		Loaniy, olayoy	
								very stony fill material
								_
1 <sub>Tyme</sub> , C=Ce	neentration D=Deals		4-Daduard Matrix				21 a action: D	L-Doro Lining M-Matrix
Hydric Soil In	ncentration, D=Deple	euon, Ki	i-Reduced Matrix, r	vio-ivias	keu Sand	d Grains.		L=Pore Lining, M=Matrix.  or Problematic Hydric Soils <sup>3</sup> :
Histosol (			Polyvalue Belo	ow Surfa	ce (S8) (	LRR R,		ck (A10) (LRR K, L, MLRA 149B)
	pedon (A2)		MLRA 149B		( - / (	,		rairie Redox (A16) ( <b>LRR K, L, R</b> )
Black His	tic (A3)		Thin Dark Surf	face (S9)	(LRR R	, MLRA 1	<b>49B</b> ) 5 cm Mu	cky Peat or Peat (S3) ( <b>LRR K, L, R</b> )
Hydrogen	Sulfide (A4)		High Chroma	Sands (S	611) ( <b>LRI</b>	R K, L)	Polyvalu	e Below Surface (S8) ( <b>LRR K, L</b> )
Stratified	Layers (A5)		Loamy Mucky	Mineral	(F1) ( <b>LR</b>	<b>R K</b> , <b>L</b> )	Thin Dar	k Surface (S9) ( <b>LRR K, L</b> )
X Depleted	Below Dark Surface	(A11)	Loamy Gleyed	Matrix (	F2)		Iron-Mar	iganese Masses (F12) ( <b>LRR K, L, R</b> )
	rk Surface (A12)		X Depleted Matr					t Floodplain Soils (F19) ( <b>MLRA 149B</b> )
	ucky Mineral (S1)		Redox Dark S					podic (TA6) ( <b>MLRA 144A, 145, 149B</b> )
	eyed Matrix (S4)		Depleted Dark					ent Material (F21)
Sandy Re			Redox Depres		8)			allow Dark Surface (F22)
Dark Surf	Matrix (S6)		Marl (F10) ( <b>LF</b>	KR N, L)			Other (E	xplain in Remarks)
Dark Suri	ace (OT)							
<sup>3</sup> Indicators of	hydrophytic vegetation	on and v	etland hydrology m	ust be pr	esent, u	nless dist	urbed or problematic.	
Restrictive L	ayer (if observed):							
Type: _	rock							
Depth (in	ches):	16					Hydric Soil Preser	nt? Yes X No
	n is revised from Nor 2015 Errata. (http://w		-					CS Field Indicators of Hydric Soils,



**Upland C2B-3- View facing north** 



**Upland C2B-3- Soils** 

Phase 1

Project/Site: CHPE	City/County: Dresden/Washington Sampling Date: 10/12/21
Applicant/Owner: TDI	State: NY Sampling Point: C2C-7 Wet
Investigator(s): N. Frazer, C. Einstein	Section, Township, Range:
	relief (concave, convex, none): convex Slope %: 1
Subregion (LRR or MLRA): LRR R Lat: 43-41-43.38N	Long: 73-25-49.99W Datum:
Soil Map Unit Name: Hollis-Charlton association	NWI classification: PEM
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes x No (If no, explain in Remarks.)
Are Vegetation, Soilx_, 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 X No
Wetland Hydrology Present? Yes X No	If yes, optional Wetland Site ID:
Pond with cattail fringe. Rip rap present along pond edge.	
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	<del></del>
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 (	to the contract of the contrac
Sediment Deposits (B2)  Oxidized Rhizospheres (B2)	
Prift Deposits (B3) Presence of Reduced In	· /
Algal Mat or Crust (B4)  Recent Iron Reduction in  This Must Confere (CT)	
Iron Deposits (B5) — Thin Muck Surface (C7)	
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remar	
Sparsely Vegetated Concave Surface (B8)	X FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes x No Depth (inches):	
Water Table Present? Yes No Depth (inches):	
Saturation Present? Yes No Depth (inches).	: Wetland Hydrology Present? Yes X No
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	evious inspections), if available:
Remarks:	
Rip rap along pond edge. Unable to determine saturation or presence of war	ater table.

<u>Tree Stratum</u> (Plot size: 30' )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1				Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)
3.				Total Number of Dominant
5.				Percent of Dominant Species
6.				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:15')				OBL species100 x 1 =100
1				FACW species 0 x 2 = 0
2.				FAC species0 x 3 =0
3.				FACU species0 x 4 =0
4				UPL species0 x 5 =0
5.				Column Totals: 100 (A) 100 (B)
6.				Prevalence Index = B/A =1.00
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	90	Yes	OBL	X 3 - Prevalence Index is ≤3.0 <sup>1</sup>
2. Lemna minor	10	No	OBL	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
3. Carex species	15	No		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:
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.
11				and greater than or equal to 3.20 it (1111) tall.
12	115	=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				Lindrambratio
3.				Hydrophytic Vegetation
4.		<del></del>		Present?
		=Total Cover		
Remarks: (Include photo numbers here or on a separate	rate sheet.)			

Sampling Point: C2C-7 Wet

SOIL Sampling Point C2C-7 Wet

(inches)	Matrix		Redox	x Featur	es			
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
_								
	nacetration D=Depletion		Daduaad Matrix N			Crains	2l castion: DI -D	ara Lining M-Matrix
Hydric Soil Ir	ncentration, D=Depletion	II, KIVI-	Reduced Matrix, N	15-IVIASI	keu Sanu	Grains.		ore Lining, M=Matrix. roblematic Hydric Soils <sup>3</sup> :
-			Dalvaralus Dala		(00) (1	DD D		•
Histosol (	•	-	Polyvalue Belo		ce (58) ( <b>L</b>	KK K,		A10) (LRR K, L, MLRA 149B)
	ipedon (A2)		MLRA 149B	•	// DD D	MI DA 440		Redox (A16) (LRR K, L, R)
Black His	, ,	_	Thin Dark Surfa		•		<u> </u>	Peat or Peat (S3) (LRR K, L, R)
	Sulfide (A4)	_	High Chroma S					elow Surface (S8) (LRR K, L)
	Layers (A5)	–	Loamy Mucky			K K, L)		urface (S9) (LRR K, L)
	Below Dark Surface (A1	<sup>11)</sup> –	Loamy Gleyed		F2)			ese Masses (F12) (LRR K, L, R)
	rk Surface (A12)	_	Depleted Matri					oodplain Soils (F19) ( <b>MLRA 149B</b>
	ucky Mineral (S1)	_	Redox Dark Su		-			c (TA6) (MLRA 144A, 145, 149B)
	eyed Matrix (S4)	_	Depleted Dark					Material (F21)
Sandy Re		_	Redox Depress	,	3)			/ Dark Surface (F22)
		_	Marl (F10) ( <b>LR</b>	RK, L)			Other (Expla	in in Remarks)
Stripped N	Matrix (S6)	_						
Stripped M	, ,							
	, ,							
Dark Surf	, ,	and wet	tland hydrology mu	ıst be pr	esent, un	less disturb	ped or problematic.	
Dark Surf	face (S7)	and wet	iland hydrology mu	ust be pr	esent, un	less disturb	ped or problematic.	
Dark Surf	face (S7) hydrophytic vegetation a	and wet	iland hydrology mu	ıst be pr	esent, un	lless disturb	ped or problematic.	
Dark Surf Indicators of Restrictive La Type:	hydrophytic vegetation a ayer (if observed): rip rap		iland hydrology mu	ust be pr	esent, un	iless disturt	·	Yes No X
Dark Surf Indicators of Restrictive La Type: Depth (ind	hydrophytic vegetation a ayer (if observed): rip rap		iland hydrology mu	ust be pr	esent, un	iless disturt	bed or problematic.  Hydric Soil Present?	Yes No _ X
Dark Surf.  Bright Surf.	hydrophytic vegetation a ayer (if observed): rip rap ches): 0			·			Hydric Soil Present?	<u> </u>
Dark Surf.  Brain Dark Surf.  Restrictive Later Type: Depth (incomparks: This data form	hydrophytic vegetation a ayer (if observed): rip rap ches): 0 n is revised from Northco	entral a	nd Northeast Regi	ional Su	pplement	Version 2.	Hydric Soil Present?  0 to include the NRCS F	Yes No X  Tield Indicators of Hydric Soils,
Dark Surf.  Brain Dark Surf.  Restrictive Later Type: Depth (incomplete Complete Com	hydrophytic vegetation a ayer (if observed): rip rap ches): 0	entral a	nd Northeast Regista.gov/Internet/Fs	ional Su	pplement	Version 2.	Hydric Soil Present?  0 to include the NRCS F	<u> </u>
Dark Surf.  Brain Dark Surf.  Restrictive Later Type: Depth (incomplete Complete Com	hydrophytic vegetation a ayer (if observed): rip rap ches): 0 n is revised from Northce 2015 Errata. (http://www.	entral a	nd Northeast Regista.gov/Internet/Fs	ional Su	pplement	Version 2.	Hydric Soil Present?  0 to include the NRCS F	<u> </u>
Dark Surf.  Brain Dark Surf.  Restrictive Later Type: Depth (incomplete Complete Com	hydrophytic vegetation a ayer (if observed): rip rap ches): 0 n is revised from Northce 2015 Errata. (http://www.	entral a	nd Northeast Regista.gov/Internet/Fs	ional Su	pplement	Version 2.	Hydric Soil Present?  0 to include the NRCS F	<u> </u>
Dark Surf.  Brain Dark Surf.  Restrictive Later Type: Depth (incomplete Complete Com	hydrophytic vegetation a ayer (if observed): rip rap ches): 0 n is revised from Northce 2015 Errata. (http://www.	entral a	nd Northeast Regista.gov/Internet/Fs	ional Su	pplement	Version 2.	Hydric Soil Present?  0 to include the NRCS F	<u> </u>
Dark Surf.  Brain Dark Surf.  Restrictive Later Type: Depth (incomplete Complete Com	hydrophytic vegetation a ayer (if observed): rip rap ches): 0 n is revised from Northce 2015 Errata. (http://www.	entral a	nd Northeast Regista.gov/Internet/Fs	ional Su	pplement	Version 2.	Hydric Soil Present?  0 to include the NRCS F	<u> </u>
Dark Surf.  Brain Dark Surf.  Restrictive Later Type: Depth (incomplete Complete Com	hydrophytic vegetation a ayer (if observed): rip rap ches): 0 n is revised from Northce 2015 Errata. (http://www.	entral a	nd Northeast Regista.gov/Internet/Fs	ional Su	pplement	Version 2.	Hydric Soil Present?  0 to include the NRCS F	<u> </u>
Dark Surf.  Brain Dark Surf.  Restrictive Later Type: Depth (incomplete Complete Com	hydrophytic vegetation a ayer (if observed): rip rap ches): 0 n is revised from Northce 2015 Errata. (http://www.	entral a	nd Northeast Regista.gov/Internet/Fs	ional Su	pplement	Version 2.	Hydric Soil Present?  0 to include the NRCS F	
Dark Surf.  Brain Dark Surf.  Restrictive Later Type: Depth (incomplete Complete Com	hydrophytic vegetation a ayer (if observed): rip rap ches): 0 n is revised from Northce 2015 Errata. (http://www.	entral a	nd Northeast Regista.gov/Internet/Fs	ional Su	pplement	Version 2.	Hydric Soil Present?  0 to include the NRCS F	
Dark Surficience Dark Surficience Dark Surficience Dark Surficience Depth (inconsense)  Remarks: This data form Version 7.0, 2	hydrophytic vegetation a ayer (if observed): rip rap ches): 0 n is revised from Northce 2015 Errata. (http://www.	entral a	nd Northeast Regista.gov/Internet/Fs	ional Su	pplement	Version 2.	Hydric Soil Present?  0 to include the NRCS F	
Dark Surficience Dark Surficience Dark Surficience Dark Surficience Depth (inconsense)  Remarks: This data form Version 7.0, 2	hydrophytic vegetation a ayer (if observed): rip rap ches): 0 n is revised from Northce 2015 Errata. (http://www.	entral a	nd Northeast Regista.gov/Internet/Fs	ional Su	pplement	Version 2.	Hydric Soil Present?  0 to include the NRCS F	
Dark Surficience Dark Surficience Dark Surficience Dark Surficience Depth (inconsense)  Remarks: This data form Version 7.0, 2	hydrophytic vegetation a ayer (if observed): rip rap ches): 0 n is revised from Northce 2015 Errata. (http://www.	entral a	nd Northeast Regista.gov/Internet/Fs	ional Su	pplement	Version 2.	Hydric Soil Present?  0 to include the NRCS F	
Dark Surficience Dark Surficience Depth (inconsense)  Remarks: This data form Version 7.0, 2	hydrophytic vegetation a ayer (if observed): rip rap ches): 0 n is revised from Northce 2015 Errata. (http://www.	entral a	nd Northeast Regista.gov/Internet/Fs	ional Su	pplement	Version 2.	Hydric Soil Present?  0 to include the NRCS F	



Wetland C2C-7- View facing west



Wetland C2C-7- Rip rap lined pond edge

Phase 1

Project/Site: CHPE	City/County: Dresden/Washington Sampling Date: 10/12/21				
Applicant/Owner: TDI	State: NY Sampling Point: C2C-7 Up				
Investigator(s): N. Frazer, C. Einstein	Section, Township, Range:				
,	relief (concave, convex, none): none Slope %: 1				
Subregion (LRR or MLRA): LRR R Lat: 43-41-43.38N	Long: 73-25-49.99W Datum:				
Soil Map Unit Name: Hollis-Charlton association	NWI classification: N/A				
Are climatic / hydrologic conditions on the site typical for this time of year?					
, , ,					
Are Vegetation, Soilx , or Hydrology significantly disturb					
Are Vegetation, Soil, or Hydrologynaturally problems	atic? (If needed, explain any answers in Remarks.)				
<b>SUMMARY OF FINDINGS – Attach site map showing sam</b>	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:				
Remarks: (Explain alternative procedures here or in a separate report.)					
Successional old field with rip rap embankment.					
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	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	on (C4) Stunted or Stressed Plants (D1)				
Algal Mat or Crust (B4) Recent Iron Reduction ir	n 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 Remark	<u> </u>				
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)				
Field Observations:					
Surface Water Present? Yes No _x Depth (inches):					
Water Table Present? Yes No _x Depth (inches):					
Saturation Present? Yes No x Depth (inches):	: Wetland Hydrology Present? Yes No _X_				
(includes capillary fringe)					
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	evious inspections), if available:				
Remarks:					

Tree Stratum (Plot size: 30' )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1				Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)
3.				That Ale OBL, FACW, of FAC(A)
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.				Prevalence Index worksheet:
		=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15' )		-		OBL species 0 x1 = 0
1. Juniperus virginiana	2	No	FACU	FACW species 0 x 2 = 0
2				FAC species 0 x 3 = 0
3				FACU species 107 x 4 = 428
<u></u>				UPL species 5 x 5 = 25
5.				Column Totals: 112 (A) 453 (B)
				Prevalence Index = B/A = 4.04
7.				Hydrophytic Vegetation Indicators:
·· ——		=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5' )		-		2 - Dominance Test is >50%
Schedonorus pratensis	85	Yes	FACU	3 - Prevalence Index is ≤3.0 <sup>1</sup>
	5	No	UPL	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
				data in Remarks or on a separate sheet)
3. Lotus corniculatus	20	No	<u>FACU</u>	
4.				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5.				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
6.				be present, unless disturbed or problematic.
7				Definitions of Vegetation Strata:
8				Tree – Woody plants 3 in. (7.6 cm) or more in
9		<u> </u>		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
	110	=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 separ	ate sheet.)			

Sampling Point: C2C-7 Upl

SOIL Sampling Point C2C-7 Upl

Depth	Matrix		Redo	x Featur	es			
(inches)	Color (moist)	%	Color (moist)	%_	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-8	10YR 4/4	100					Loamy/Clayey	rocky
								·
1							2	
	oncentration, D=Deplet	tion, RM	I=Reduced Matrix, N	MS=Mas	ked Sand	Grains.		=Pore Lining, M=Matrix.
Hydric Soil I			Dobarduo Bole	ou Curfo	oo (CO) (I	I DD D		r Problematic Hydric Soils <sup>3</sup> :
Histosol	(AT) ipedon (A2)		Polyvalue Belo		ce (So) (I	LKK K,		k (A10) ( <b>LRR K, L, MLRA 149B</b> ) airie Redox (A16) ( <b>LRR K, L, R</b> )
Black His			Thin Dark Surf	•	(I RR R	MI RA 1		sky Peat or Peat (S3) (LRR K, L, R)
	n Sulfide (A4)		High Chroma S		-			Below Surface (S8) (LRR K, L)
	Layers (A5)		Loamy Mucky					Surface (S9) (LRR K, L)
	l Below Dark Surface (	(A11)	Loamy Gleyed			· · · · · · · · · · · · · · · · · · ·		ganese Masses (F12) (LRR K, L, R)
	rk Surface (A12)	(* * * * * )	Depleted Matri		. –,			Floodplain Soils (F19) (MLRA 149B)
	ucky Mineral (S1)		Redox Dark Su		6)			odic (TA6) ( <b>MLRA 144A, 145, 149B</b> )
	leyed Matrix (S4)		Depleted Dark		-			nt Material (F21)
	edox (S5)		Redox Depres					llow Dark Surface (F22)
Stripped	Matrix (S6)		Marl (F10) ( <b>LR</b>	RRK, L)			Other (Ex	plain in Remarks)
Dark Sur	face (S7)							
<sup>3</sup> Indicators of	hydrophytic vegetatio	n and w	etland hydrology m	ust be pr	esent, ur	nless dist	urbed or problematic.	
Restrictive L	ayer (if observed):							
Type:	rip rap	)						
Depth (in	nches):	8					Hydric Soil Present	t? Yes No X
	2015 Errata. (http://ww							S Field Indicators of Hydric Soils,



**Upland C2C-7- View facing south** 



**Upland C2C-7- Soils** 

Phase 1

Project/Site: CHPE	City/County: Dresden/Washington Sampling Date: 10/12/21				
Applicant/Owner: TDI	State: NY Sampling Point: C2D-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: 43-41-30.85N	Long: 73-25-31.46W Datum:				
Soil Map Unit Name: Hollis-Charlton association	NWI classification: PEM				
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 No X	within a Wetland? Yes No X				
Wetland Hydrology Present? Yes X No	If yes, optional Wetland Site ID:				
Cattail 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	<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 (I					
Sediment Deposits (B2)  Oxidized Rhizospheres of Padveed Inc.					
Drift Deposits (B3) Presence of Reduced Iro Algal Mat or Crust (B4) Recent Iron Reduction 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 Remark					
Sparsely Vegetated Concave Surface (B8)	X FAC-Neutral Test (D5)				
Field Observations:	A The House Tool (20)				
	. 05				
Surface Water Present? Yes x No Depth (inches):  Water Table Present? Yes x No Depth (inches):					
Saturation Present? Yes x No Depth (inches):					
(includes capillary fringe)	Trending Hydrology Flosonic 100 // 1.5				
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	evious inspections), if available:				
2000 100 1.000 2000 (0.12.00 garage, 1.12.00 garage, 1.12.00 garage)					
Remarks:					
remarks.					

Tree Stratum (Plot size: 30' )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. Tsuga canadensis	% Cover	Yes	FACU	
2.	J	169	FACO	Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)
3.				That Are Obc., FAOW, OF FAO.
4				Total Number of Dominant
5				Species Across All Strata: 3 (B)
5 6.				Percent of Dominant Species That Are OBL, FACW, or FAC: 66.7% (A/B)
6 7.				Prevalence Index worksheet:
··	5	=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15' )		-10101 00.0.		OBL species 45 x 1 = 45
Betula alleghaniensis	5	Yes	FAC	FACW species 2 x 2 = 4
2				FAC species 12 x 3 = 36
2				FACU species 9 x 4 = 36
				UPL species 0 x 5 = 0
5.				Column Totals: 68 (A) 121 (B)
				Prevalence Index = B/A = 1.78
7.				Hydrophytic Vegetation Indicators:
<i>1.</i>		Total Cover		
Hart Charter /Distains El	5	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5' )				X 2 - Dominance Test is >50%
1. Typha angustifolia	35	Yes	OBL	3 - Prevalence Index is ≤3.0¹
2. Equisetum arvense	5	<u>No</u>	FAC	4 - Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)
3. Euthamia graminifolia	2		FAC	
4. Phragmites australis	2	No	FACW	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5. Lythrum salicaria	5	No	OBL	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be
6. Tussilago farfara	2	No	FACU	present, unless disturbed or problematic.
7. Carex sp.	2	No		Definitions of Vegetation Strata:
8. Juncus effusus	5	No	OBL	Tree – Woody plants 3 in. (7.6 cm) or more in diameter
9. <u>Pinus strobus</u>	2	No	FACU	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
<del></del> -	60	=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
4.				Vegetation Present? Yes X No
		=Total Cover		
Remarks: (Include photo numbers here or on a separa				
Tromano. (mondo prioto namoro nero en en el 22, 22, 22, 22, 22, 22, 22, 22, 22, 22	110 01100,			

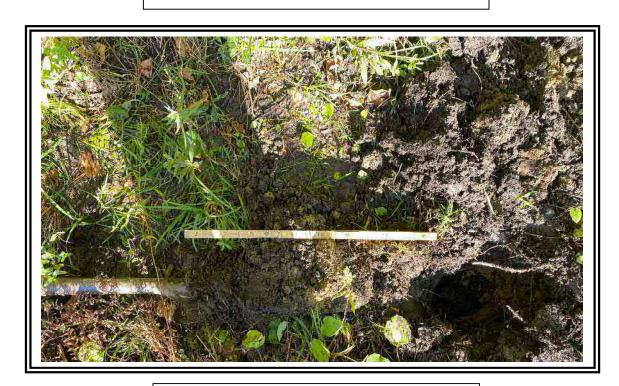
Sampling Point: C2D-4 Wet

SOIL Sampling Point: C2D-4 Wet

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)									
Depth	Matrix		Redox	x Featur	es				
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks	
0-9	10YR 2/1	100					Loamy/Clayey		
9-18	2.5Y 5/3	70	2.5Y 4/2	10	<u>C</u>	M	Loamy/Clayey	Faint redox concentrations	
			10YR 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					(0.5) (1			or Problematic Hydric Soils <sup>3</sup> :	
Histosol			Polyvalue Belov		e (S8) ( <b>L</b>	.RR R,		ick (A10) (LRR K, L, MLRA 149B)	
	pipedon (A2)		MLRA 149B)		/I DD D	MIDAA		rairie Redox (A16) (LRR K, L, R)	
	istic (A3)		Thin Dark Surfa					cky Peat or Peat (S3) (LRR K, L, R)	
	en Sulfide (A4)		High Chroma S					e Below Surface (S8) (LRR K, L)	
	d Layers (A5) d Below Dark Surface	· (A11)	Loamy Mucky N Loamy Gleyed			( K, L)		rk Surface (S9) (LRR K, L) nganese Masses (F12) (LRR K, L, R)	
	ark Surface (A12)	; (A11)	Depleted Matrix		2)			nt Floodplain Soils (F19) (MLRA 149B)	
	Mucky Mineral (S1)		Redox Dark Su		6)			podic (TA6) (MLRA 144A, 145, 149B)	
	Gleyed Matrix (S4)		Depleted Dark					ent Material (F21)	
	Redox (S5)		Redox Depress					allow Dark Surface (F22)	
	Matrix (S6)		 Marl (F10) ( <b>LR</b> l		,		Other (Explain in Remarks)		
Dark Su	rface (S7)								
	f hydrophytic vegetati	on and we	tland hydrology mus	st be pre	sent, unl	ess distu	rbed or problematic.		
Type:	Layer (if observed): nor	ne.							
Depth (i							Hydric Soil Preser	nt? Yes No X	
							Tiyano don ricaci	105 NOX_	
Remarks: This data for	m is revised from No	rthcentral	and Northeast Regio	onal Sup	plement	Version 2	2.0 to include the NRCS	S Field Indicators of Hydric Soils,	
	2015 Errata. (http://w							, , , , , , , , , , , , , , , , , , , ,	



Wetland C2D-4- View facing west



Wetland C2D-4- Soils

Phase 1

Project/Site: CHPE	City/County: Dresden/Washington Sampling Date: 10/12/21
Applicant/Owner: TDI	State: NY Sampling Point: C2D-4 Upl
Investigator(s): N. Frazer, C. Einstein	Section, Township, Range:
	relief (concave, convex, none): none Slope %: 0
Subregion (LRR or MLRA): LRR R Lat: 43-41-30.85N	Long: 73-25-31.46W Datum:
Soil Map Unit Name: Hollis-Charlton association	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 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:
Forested upland.	
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)	
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:
Demonto	
Remarks:	

<b>'EGETATION</b> – Use scientific names of p	iants.			Sampling Point:	C2D-4 Upl	
Tree Stratum (Plot size:30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:		
1. Tsuga canadensis	40	Yes	FACU	Number of Dominant Species		
2. Populus deltoides	10	No	FAC	That Are OBL, FACW, or FAC:	0 (A)	
3. Pinus strobus	5	No	FACU	Total Number of Dominant		
4. Fagus grandifolia	40	Yes	FACU	Species Across All Strata:	10 (B)	
5				Percent of Dominant Species		
6				That Are OBL, FACW, or FAC:	0.0% (A/B)	
7.				Prevalence Index worksheet:		
	95	=Total Cover		Total % Cover of: M	fultiply by:	
Sapling/Shrub Stratum (Plot size:15'	)			OBL species 0 x 1 =	0	
1. Tsuga canadensis	10	Yes	FACU	FACW species 1 x 2 =	2	
2. Pinus strobus	10	Yes	FACU	FAC species 22 x 3 =	66	
3. Acer pensylvanicum	10	Yes	FACU	FACU species 197 x 4 =	788	
4. Fagus grandifolia	10	Yes	FACU	UPL species 5 x 5 =	25	
5.				Column Totals: 225 (A)	881 (B)	
6.				Prevalence Index = B/A =	3.92	
7.				Hydrophytic Vegetation Indicators	:	
	40	=Total Cover		1 - Rapid Test for Hydrophytic V	egetation	
Herb Stratum (Plot size: 5' )		-		2 - Dominance Test is >50%		
1. Equisetum arvense	2	No	FAC	3 - Prevalence Index is ≤3.0 <sup>1</sup>		
2. Fagus grandifolia	15	Yes	FACU	4 - Morphological Adaptations <sup>1</sup> (Provide suppor data in Remarks or on a separate sheet)		
3. Tsuga canadensis	- <u></u> 5	No	FACU			
4. Taraxacum officinale	- ———— 5	No	FACU	Problematic Hydrophytic Vegeta	tion <sup>1</sup> (Explain)	
5. Asclepias syriaca	- <u></u> 5	No	UPL			
6. Onoclea sensibilis	. <u></u>	No	FACW	<sup>1</sup> Indicators of hydric soil and wetland be present, unless disturbed or probl		
7. Trifolium repens	15	Yes	FACU	Definitions of Vegetation Strata:		
B. Achillea millefolium	15	Yes	FACU	_		
9. Acer pensylvanicum	5	No	FACU	<b>Tree</b> – Woody plants 3 in. (7.6 cm) of diameter at breast height (DBH), reg		
10. Acer saccharum	2	No	FACU			
11. Geum canadense	. <u></u> 5	No	FAC	Sapling/shrub – Woody plants less and greater than or equal to 3.28 ft (		
12. Galium boreale	5	No	FAC		,	
	85	=Total Cover		<b>Herb</b> – All herbaceous (non-woody) of size, and woody plants less than 3		
Woody Vine Stratum (Plot size: 30'	,	-				
1. Vitis aestivalis	, 5	Yes	FACU	<b>Woody vines</b> – All woody vines greatheight.	ater than 3.28 ft in	
2.		163	1700	neight.		
3.				Hydrophytic		
4.				Vegetation Present? Yes No	. X	
	- <u></u> 5	=Total Cover		165NC	<u> </u>	
Remarks: (Include photo numbers here or on a seg				1		

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

Trac Stratum	Absolute % Cover	Dominant Species?	Indicator	Definitions of Versatation Strates
Tree Stratum  8.		Species?	Status	Definitions of Vegetation Strata:  Tree – Woody plants 3 in. (7.6 cm) or more in
0				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.				<b>Herb</b> – All herbaceous (non-woody) plants, regardless
13.				of size, and woody plants less than 3.28 ft tall.
14				Woody vines – All woody vines greater than 3.28 ft in
	95	=Total Cover		height.
Sapling/Shrub Stratum				
8.				
9.				
10	-			
11				
12				
13				
14				
	40	=Total Cover		
Herb Stratum				
13. Trifolium pratense	5	No	FACU	
14				
15				
16				
17				
18				
19				
20				
21				
22.				
23.				
24.				
	85	=Total Cover		
Woody Vine Stratum		-		
5.				
6.				
7.				
8.				
	5	=Total Cover		
Remarks: (Include photo numbers here or on a separ	rate sheet.)	-		
,	,			

Sampling Point: C2D-4 Upl

SOIL Sampling Point C2D-4 Upl

	•	to the de	•			ator or co	onfirm the absence of inc	dicators.)	
Depth	Matrix			x Featur		. 2			
(inches)	Color (moist)	<u>%</u>	Color (moist)		Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks	
0-8	10YR 3/2	100					Loamy/Clayey		
8-14	10YR 3/3	100					Loamy/Clayey		
								_	
<sup>1</sup> Type: C=Ce	oncentration, D=Depl	etion, RN	1=Reduced Matrix, N	/IS=Mas	ked Sand	d Grains.	<sup>2</sup> Location: PL=P	ore Lining, M=Matrix.	
Hydric Soil								roblematic Hydric Soils <sup>3</sup> :	
— Histosol			Polyvalue Belo		ce (S8) (I	LRR R,		(A10) (LRR K, L, MLRA 149B)	
	oipedon (A2)		MLRA 149B	•	\	MUDAA		e Redox (A16) (LRR K, L, R)	
	stic (A3) n Sulfide (A4)		Thin Dark Surface (S9) (LRR R, MLRA 1 High Chroma Sands (S11) (LRR K, L)				· —	Peat or Peat (S3) (LRR K, L, R) elow Surface (S8) (LRR K, L)	
	d Layers (A5)		Loamy Mucky Mineral (F1) (LRR K, L)					urface (S9) ( <b>LRR K, L</b> )	
	d Below Dark Surface	e (A11)	Loamy Gleyed Matrix (F2)			(	Iron-Manganese Masses (F12) ( <b>LRR K, L, R</b> )		
	ark Surface (A12)	()	Depleted Matrix (F3)				Piedmont Floodplain Soils (F19) (MLRA 149B)		
Sandy Mucky Mineral (S1)			Redox Dark Su		<sup>-</sup> 6)			c (TA6) ( <b>MLRA 144A, 145, 149B</b> )	
Sandy Gleyed Matrix (S4)			Depleted Dark Surface (F7)				Red Parent	Material (F21)	
	Redox (S5)		Redox Depressions (F8)					w Dark Surface (F22)	
	Matrix (S6)		Marl (F10) ( <b>LR</b>	Marl (F10) ( <b>LRR K, L</b> )			Other (Expla	nin in Remarks)	
Dark Su	rface (S7)								
<sup>3</sup> Indicators o	f hydrophytic vegetat	ion and v	etland hydrology mu	ıst he nr	esent ur	nless dist	urbed or problematic		
	Layer (if observed):	ion and t	rottaria riyarology ilic	act bo pi	000111, 41	nooc dict	arboa or problemate.		
Type:	rock	ху							
Depth (ii	nches):	14					Hydric Soil Present?	Yes No _X_	
Remarks:									
			_					Field Indicators of Hydric Soils,	
Version 7.0,	2015 Errata. (http://w	ww.nrcs	usda.gov/Internet/FS	SE_DOC	CUMENT	S/nrcs14	2p2_051293.docx)		



**Upland C2D-4- View facing south** 



**Upland C2D-4- Soils** 

Phase 1

Project/Site: CHPE	City/County: Dresden/Washington Sampling Date: 10/12/21
Applicant/Owner: TDI	State: NY Sampling Point: C2E-3 Wei
Investigator(s): N. Frazer, C. Einstein	Section, Township, Range:
,	relief (concave, convex, none): concave Slope %: 1
Subregion (LRR or MLRA): LRR R Lat: 43-41-30.17N	Long: 73-25-28.21W Datum:
Soil Map Unit Name: Hollis-Charlton association	NWI classification: PEM
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes x No (If no, explain in Remarks.)
Are Vegetation , Soil x , or Hydrology significantly disturb	
Are Vegetation, Soil, or Hydrology naturally problema	
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 X No
Wetland Hydrology Present? Yes X No	If yes, optional Wetland Site ID:
Remarks: (Explain alternative procedures here or in a separate report.) Linear vegetated roadside ditch. Soils are disturbed.	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1)  Water-Stained Leaves (E	
High Water Table (A2)  Aquatic Fauna (B13)  And Barasita (D45)	Moss Trim Lines (B16)
Saturation (A3)  Marl Deposits (B15)  Water Marks (B4)	Dry-Season Water Table (C2)
Water Marks (B1) Hydrogen Sulfide Odor ( Sediment Deposits (B2) Oxidized Rhizospheres of	· · · · · · · · · · · · · · · · · · ·
Sediment Deposits (B2)  Drift Deposits (B3)  Oxidized Rhizospheres of Presence of Reduced Iro	
Algal Mat or Crust (B4)  Recent Iron Reduction in	<del></del>
Iron Deposits (B5)  Thin Muck Surface (C7)	. , , ,
Inundation Visible on Aerial Imagery (B7)  Other (Explain in Remark	<del></del>
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 No x Depth (inches):	:   Wetland Hydrology Present? Yes X No
(includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	
Describe Necorded Data (Siteam gauge, monitoring well, aerial photos, pre	rious inspections), il avaliable.
Remarks: Culvert present at flag C2E-7. Unflagged ditch/ conveyance of flow continue	es south to stream C2S1.

	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
l				Species Across All Strata: 1 (B)
5.				Percent of Dominant Species
S				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 85 x 1 = 85
·				FACW species 5 x 2 = 10
				FAC species 10 x 3 = 30
i.				FACU species 10 x 4 = 40
				UPL species 3 x 5 = 15
				Column Totals: 113 (A) 180 (B
				Prevalence Index = B/A = 1.59
·				Hydrophytic Vegetation Indicators:
		=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
lerb Stratum (Plot size: 5' )				X 2 - Dominance Test is >50%
. Lythrum salicaria	85	Yes	OBL	X 3 - Prevalence Index is ≤3.0 <sup>1</sup>
2. Solidago gigantea	. <u>- 55</u> 5	No	FACW	4 - Morphological Adaptations <sup>1</sup> (Provide supportir
3. Equisetum arvense	<del></del> 5	No	FAC	data in Remarks or on a separate sheet)
. Pastinaca sativa		No	UPL	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
	2	No	UPL	Problematic Hydrophytic vegetation (Explain)
				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
Euthamia graminifolia	5	No No	FAC	be present, unless disturbed or problematic.
. Poa pratensis	10	No	<u>FACU</u>	Definitions of Vegetation Strata:
3.				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
1				and greater than or equal to 3.28 ft (1 m) tall.
2				Herb – All herbaceous (non-woody) plants, regardles:
	113	=Total Cover		of size, and woody plants less than 3.28 ft tall.
Noody Vine Stratum (Plot size: 30'	)			Woody vines – All woody vines greater than 3.28 ft in
l	· <u></u>			height.
2				Hydrophytic
S				Vegetation
l				Present? Yes X No No
		=Total Cover		

SOIL Sampling Point C2E-3 Wet

(inches)	Matrix		Redox	k Featur	es				
\	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks	
0-4	10YR 2/1	100					Loamy/Clayey		
4-11	10YR 4/1	100					Sandy	very gravelly	
1			De desert Matrix N			·	21 thoras DI	North Linds of Manager	
Hydric Soil I	ncentration, D=Depl	etion, Rivi	=Reduced Matrix, IV	i5=ivias	ked Sand	Grains.		Pore Lining, M=Matrix.  Problematic Hydric Soils <sup>3</sup> :	
Histosol (			Polyvalue Belo	w Surfa	ce (S8) ( <b>L</b>	.RR R.		(A10) (LRR K, L, MLRA 149B)	
	ipedon (A2)		MLRA 149B)		() (-	<b>-</b> ,		e Redox (A16) ( <b>LRR K, L, R</b> )	
Black His			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	Sands (S	311) ( <b>LRR</b>	K, L)	Polyvalue B	elow Surface (S8) (LRR K, L)	
	Layers (A5)		Loamy Mucky I			R K, L)		urface (S9) ( <b>LRR K, L</b> )	
	Below Dark Surface	(A11)	Loamy Gleyed Matrix (F2)				Iron-Manganese Masses (F12) (LRR K, L, R)		
Thick Dark Surface (A12)			Depleted Matrix (F3)  Redox Dark Surface (F6)				Piedmont Floodplain Soils (F19) (MLRA 149B)  Mesic Spodic (TA6) (MLRA 144A, 145, 149B)		
	ucky Minoral (S1)		Neuox Daik Su	iiiace (i	0)		<del></del> _	C (1A0) (WENA 144A, 143, 143B)	
Sandy M	ucky Mineral (S1) leved Matrix (S4)	•		Surface	(F7)		Red Parent	Material (F21)	
Sandy Me	leyed Matrix (S4)		Depleted Dark					Material (F21) v Dark Surface (F22)	
Sandy Mo				sions (F			Very Shallov		
Sandy Mi Sandy Gl Sandy Re Stripped	leyed Matrix (S4) edox (S5)		Depleted Dark Redox Depress	sions (F			Very Shallov	v Dark Surface (F22)	
Sandy Mi Sandy Gl Sandy Re Stripped Dark Suri	leyed Matrix (S4) edox (S5) Matrix (S6) face (S7)		Depleted Dark Redox Depress Marl (F10) (LRI	sions (Fa	3)		Very Shallov Other (Expla	v Dark Surface (F22)	
Sandy Mi Sandy Gl Sandy Re Stripped Dark Surl	leyed Matrix (S4) edox (S5) Matrix (S6) face (S7) hydrophytic vegetati	on and we	Depleted Dark Redox Depress Marl (F10) (LRI	sions (Fa	3)	less disti	Very Shallov	v Dark Surface (F22)	
Sandy Me Sandy Gl Sandy Re Stripped Dark Surf  3Indicators of Restrictive L	leyed Matrix (S4) edox (S5) Matrix (S6) face (S7) hydrophytic vegetati ayer (if observed):		Depleted Dark Redox Depress Marl (F10) (LRI	sions (Fa	3)	less disti	Very Shallov Other (Expla	v Dark Surface (F22)	
Sandy Mi Sandy Gl Sandy Re Stripped Dark Suri  Indicators of  Restrictive L Type:	leyed Matrix (S4) edox (S5) Matrix (S6) face (S7) hydrophytic vegetati ayer (if observed): Rock	<	Depleted Dark Redox Depress Marl (F10) (LRI	sions (Fa	3)	less disti	Very Shallov Other (Expla	v Dark Surface (F22) ain in Remarks)	
Sandy Me Sandy Gl Sandy Re Stripped Dark Surl  Indicators of Restrictive L Type: Depth (in	leyed Matrix (S4) edox (S5) Matrix (S6) face (S7) hydrophytic vegetati ayer (if observed): Rock		Depleted Dark Redox Depress Marl (F10) (LRI	sions (Fa	3)	less disti	Very Shallov Other (Expla	v Dark Surface (F22)	
Sandy Me Sandy Gl Sandy Re Stripped Dark Surf  3Indicators of Restrictive L Type: Depth (in  Remarks: This data forr	leyed Matrix (S4) edox (S5) Matrix (S6) face (S7) hydrophytic vegetati ayer (if observed): Rock iches): m is revised from Noi 2015 Errata. (http://w	thcentral	Depleted Dark Redox Depress Marl (F10) ( <b>LR</b> ) etland hydrology mu	sions (Fa R K, L) ust be pro-	esent, un	Version	Other (Explainment)  Wery Shallow  Wery Shallow Other (Explainment)  Wery Shallow  W	v Dark Surface (F22) ain in Remarks)	
Sandy Me Sandy Gl Sandy Re Stripped Dark Surf  3Indicators of Restrictive L Type: Depth (in  Remarks: This data forr Version 7.0, 2	leyed Matrix (S4) edox (S5) Matrix (S6) face (S7) hydrophytic vegetati ayer (if observed): Rock iches): m is revised from Noi 2015 Errata. (http://w	thcentral	Depleted Dark Redox Depress Marl (F10) ( <b>LR</b> ) etland hydrology mu	sions (Fa R K, L) ust be pro-	esent, un	Version	Other (Explainment)  Wery Shallow  Wery Shallow Other (Explainment)  Wery Shallow  W	v Dark Surface (F22) sin in Remarks)  Yes No _X	
Sandy Me Sandy Gl Sandy Re Stripped Dark Surf  3Indicators of Restrictive L Type: Depth (in  Remarks: This data forr Version 7.0, 2	leyed Matrix (S4) edox (S5) Matrix (S6) face (S7) hydrophytic vegetati ayer (if observed): Rock iches): m is revised from Noi 2015 Errata. (http://w	thcentral	Depleted Dark Redox Depress Marl (F10) ( <b>LR</b> ) etland hydrology mu	sions (Fa R K, L) ust be pro-	esent, un	Version	Other (Explainment)  Wery Shallow  Wery Shallow Other (Explainment)  Wery Shallow  W	v Dark Surface (F22) sin in Remarks)  Yes No _X	
Sandy Me Sandy Gl Sandy Re Stripped Dark Surf  3Indicators of Restrictive L Type: Depth (in  Remarks: This data forr Version 7.0, 2	leyed Matrix (S4) edox (S5) Matrix (S6) face (S7) hydrophytic vegetati ayer (if observed): Rock iches): m is revised from Noi 2015 Errata. (http://w	thcentral	Depleted Dark Redox Depress Marl (F10) ( <b>LR</b> ) etland hydrology mu	sions (Fa R K, L) ust be pro-	esent, un	Version	Other (Explainment)  Wery Shallow  Wery Shallow Other (Explainment)  Wery Shallow  W	v Dark Surface (F22) sin in Remarks)  Yes No _X	
Sandy Me Sandy Gl Sandy Re Stripped Dark Surf  3Indicators of Restrictive L Type: Depth (in  Remarks: This data forr Version 7.0, 2	leyed Matrix (S4) edox (S5) Matrix (S6) face (S7) hydrophytic vegetati ayer (if observed): Rock iches): m is revised from Noi 2015 Errata. (http://w	thcentral	Depleted Dark Redox Depress Marl (F10) ( <b>LR</b> ) etland hydrology mu	sions (Fa R K, L) ust be pro-	esent, un	Version	Other (Explainment)  Wery Shallow  Wery Shallow Other (Explainment)  Wery Shallow  W	v Dark Surface (F22) sin in Remarks)  Yes No _X	
Sandy Me Sandy Gl Sandy Re Stripped Dark Surf  3Indicators of Restrictive L Type: Depth (in  Remarks: This data forr Version 7.0, 2	leyed Matrix (S4) edox (S5) Matrix (S6) face (S7) hydrophytic vegetati ayer (if observed): Rock iches): m is revised from Noi 2015 Errata. (http://w	thcentral	Depleted Dark Redox Depress Marl (F10) ( <b>LR</b> ) etland hydrology mu	sions (Fa R K, L) ust be pro-	esent, un	Version	Other (Explainment)  Wery Shallow  Wery Shallow Other (Explainment)  Wery Shallow  W	v Dark Surface (F22) sin in Remarks)  Yes No _X	
Sandy Me Sandy Gl Sandy Re Stripped Dark Surf  3Indicators of Restrictive L Type: Depth (in  Remarks: This data forr Version 7.0, 2	leyed Matrix (S4) edox (S5) Matrix (S6) face (S7) hydrophytic vegetati ayer (if observed): Rock iches): m is revised from Noi 2015 Errata. (http://w	thcentral	Depleted Dark Redox Depress Marl (F10) ( <b>LR</b> ) etland hydrology mu	sions (Fa R K, L) ust be pro-	esent, un	Version	Other (Explainment)  Wery Shallow  Wery Shallow Other (Explainment)  Wery Shallow  W	v Dark Surface (F22) sin in Remarks)  Yes No _X	
Sandy Me Sandy Gl Sandy Re Stripped Dark Surf  3Indicators of Restrictive L Type: Depth (in  Remarks: This data forr Version 7.0, 2	leyed Matrix (S4) edox (S5) Matrix (S6) face (S7) hydrophytic vegetati ayer (if observed): Rock iches): m is revised from Noi 2015 Errata. (http://w	thcentral	Depleted Dark Redox Depress Marl (F10) ( <b>LR</b> ) etland hydrology mu	sions (Fa R K, L) ust be pro-	esent, un	Version	Other (Explainment)  Wery Shallow  Wery Shallow Other (Explainment)  Wery Shallow  W	v Dark Surface (F22) sin in Remarks)  Yes No _X	
Sandy Me Sandy Gl Sandy Re Stripped Dark Surf  3Indicators of Restrictive L Type: Depth (in  Remarks: This data forr Version 7.0, 2	leyed Matrix (S4) edox (S5) Matrix (S6) face (S7) hydrophytic vegetati ayer (if observed): Rock iches): m is revised from Noi 2015 Errata. (http://w	thcentral	Depleted Dark Redox Depress Marl (F10) ( <b>LR</b> ) etland hydrology mu	sions (Fa R K, L) ust be pro-	esent, un	Version	Other (Explainment)  Wery Shallow  Wery Shallow Other (Explainment)  Wery Shallow  W	v Dark Surface (F22) sin in Remarks)  Yes No _X	
Sandy Me Sandy Gl Sandy Re Stripped Dark Surf  3Indicators of Restrictive L Type: Depth (in  Remarks: This data forr Version 7.0, 2	leyed Matrix (S4) edox (S5) Matrix (S6) face (S7) hydrophytic vegetati ayer (if observed): Rock iches): m is revised from Noi 2015 Errata. (http://w	thcentral	Depleted Dark Redox Depress Marl (F10) ( <b>LR</b> letland hydrology mu	sions (Fa R K, L) ust be pro-	esent, un	Version	Other (Explainment)  Wery Shallow  Wery Shallow Other (Explainment)  Wery Shallow  W	v Dark Surface (F22) sin in Remarks)  Yes No _X	



Wetland C2E-3- View facing southeast



Wetland C2E-3- Soils

Phase 1

Project/Site: CHPE	City/County: Dresden/Washington Sampling Date: 10/12/21
Applicant/Owner: TDI	State: NY Sampling Point: C2E-3 Upl
Investigator(s): N. Frazer, C. Einstein	Section, Township, Range:
	relief (concave, convex, none): none Slope %: 0
Subregion (LRR or MLRA): LRR R Lat: 43-41-30.17N	Long: 73-25-28.21 Datum:
Soil Map Unit Name: Hollis-Charlton association	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	ipling 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 old field and upland 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 (	· · · · · · · · · · · · · · · · · · ·
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  Deposits (R2)	
Drift Deposits (B3) Presence of Reduced In	<u> </u>
Algal Mat or Crust (B4)  Recent Iron Reduction in  This Music Surface (G7)	· · · · · · · · · · · · · · · · · · ·
Iron Deposits (B5)  Thin Muck Surface (C7)  Other (Figure in Personal (B7))	
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:	
Tromano.	

Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
. Ulmus americana	5	No No	FACW	
2. Tsuga canadensis	30	Yes	FACU	Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)
3. Carya ovata	5	No	FACU	
				Total Number of Dominant Species Across All Strata: 6 (B)
·				
3.				Percent of Dominant Species That Are OBL, FACW, or FAC: 16.7% (A/B
·				Prevalence Index worksheet:
•	40	=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15' )		. Total Gover		OBL species 0 x1 = 0
. Pinus strobus	5	Yes	FACU	FACW species 13 x 2 = 26
. Ulmus americana	8	Yes	FACW	FAC species 10 x 3 = 30
o. Omas americana		103	17011	FACU species 115 x 4 = 460
·				UPL species 21 x 5 = 105
				Column Totals: 159 (A) 621 (B
· i.				
·	-	·		
•	13	=Total Cover		Hydrophytic Vegetation Indicators:
lank Chartura (District)		- Fotal Cover		1 - Rapid Test for Hydrophytic Vegetation
Merb Stratum (Plot size:5')	0.5	V	FAOU	2 - Dominance Test is >50%
Schedonorus pratensis	35	Yes	FACU	3 - Prevalence Index is ≤3.0 <sup>1</sup>
Asclepias syriaca	8	. <u>No</u>	UPL	4 - Morphological Adaptations (Provide supportine data in Remarks or on a separate sheet)
Galium boreale	5	No No	FAC	
Daucus carota	5	No No	UPL	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
Solidago canadensis	25	Yes	FACU	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
Tussilago farfara	10	No No	FACU	be present, unless disturbed or problematic.
Securigera varia	8	No No	UPL	Definitions of Vegetation Strata:
Equisetum arvense  0.	5	. <u>No</u>	FAC	<b>Tree</b> – 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
	101	=Total Cover		of size, and woody plants less than 3.28 ft tall.
Noody Vine Stratum (Plot size:30')				Woody vines – All woody vines greater than 3.28 ft i
Vitis aestivalis	5	Yes	FACU	height.
2				
i	-			Hydrophytic Vegetation
L				Present? Yes No X
	5	=Total Cover		

SOIL Sampling Point C2E-3 Upl

	•	to the de	•			tor or co	onfirm the absence of ind	licators.)	
Depth	Matrix			x Featur		. 2	<b>-</b> .		
(inches)	Color (moist)	<u>%</u>	Color (moist)		Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks	
0-6	10YR 3/3	100				—	Loamy/Clayey		
6-10	10YR 4/4	100					Loamy/Clayey		
							_		
1Tuno: C=C	ancentration D-Dept	ation DA	4-Doduced Metrix A		——	Crains	2l acation: DI -D	oro Lining M-Matrix	
Hydric Soil	oncentration, D=Depl	etion, Riv	ri=Reduced Matrix, N	/IS=IVIAS	ked Sand	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)	
	pipedon (A2)		MLRA 149B		( - / (	,		Redox (A16) ( <b>LRR K, L, R</b> )	
Black Hi	istic (A3)		Thin Dark Surface (S9) (LRR R, MLRA				<b>49B</b> ) 5 cm Mucky	Peat or Peat (S3) ( <b>LRR K, L, R</b> )	
Hydroge	en Sulfide (A4)		High Chroma Sands (S11) (LRR K, L)			R K, L)	Polyvalue Be	elow Surface (S8) ( <b>LRR K, L</b> )	
	d Layers (A5)		Loamy Mucky		<del></del>				
	d Below Dark Surface	e (A11)	Loamy Gleyed Matrix (F2)				Iron-Manganese Masses (F12) (LRR K, L, R)		
Thick Dark Surface (A12)			Depleted Matri		-0)			oodplain Soils (F19) (MLRA 149B)	
Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4)			Redox Dark Surface (F6) Depleted Dark Surface (F7)					C (TA6) ( <b>MLRA 144A, 145, 149B</b> )  Material (F21)	
	Redox (S5)		Redox Depressions (F8)					Dark Surface (F22)	
	Matrix (S6)		Marl (F10) ( <b>LRR K, L</b> )					in in Remarks)	
	rface (S7)			, ,				,	
	f hydrophytic vegetat	ion and w	vetland hydrology mu	ust be pr	esent, ur	nless dist	urbed or problematic.		
	Layer (if observed):								
Depth (i	nches):	10					Hydric Soil Present?	Yes No _X	
Remarks:	em is revised from No	rthaantra	land Northagat Dagi	ional Cu	nnlamani	Vorsion	2.0 to include the NDCS F	iold Indicators of Lludric Caile	
								ield indicators of rigdic Solls,	
ŕ	` '		9	_			, _ ,		
Type: Depth (i Remarks: This data for	rock	10 rthcentra						Yes No _X	



**Upland C2E-3- View facing southeast** 



**Upland C2E-3- Soils** 

Phase 1

Project/Site: CHPE	City/County: Dresden/Washington Sampling Date: 10/12/21
Applicant/Owner: TDI	State: NY Sampling Point: C2F-2 Wet
Investigator(s): N. Frazer, C. Einstein	Section, Township, Range:
Landform (hillside, terrace, etc.): ditch Local	relief (concave, convex, none): concave Slope %: 0
Subregion (LRR or MLRA): LRR R Lat: 43-41-25.33N	Long: 73-25-22.84W Datum:
Soil Map Unit Name: Hollis-Charlton association	NWI classification: PEM
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 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:
Remarks: (Explain alternative procedures here or in a separate report.)  Linear vegetated ditch.	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
X Surface Water (A1) Water-Stained Leaves (I	
X High Water Table (A2) Aquatic Fauna (B13) Aut B was its (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) — X Oxidized Rhizospheres of	i i i i i i i i i i i i i i i i i i i
Sediment Deposits (B2)  Drift Deposits (B3)  X Oxidized Rhizospheres of Presence of Reduced Inc.	——————————————————————————————————————
Algal Mat or Crust (B4)  Recent Iron Reduction in	<u> </u>
Iron Deposits (B5)  Thin Muck Surface (C7)	
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remar	<del></del>
Sparsely Vegetated Concave Surface (B8)	X FAC-Neutral Test (D5)
Field Observations:	<u></u>
Surface Water Present? Yes x No Depth (inches):	: 0.25
Water Table 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	evious inspections), if available:
Remarks:	