APPENDIX M CASE 10-T-0139 WATERBODY INVENTORY (114A) & WETLAND DELINEATION REPORT

Wetland & Waterbodies Delineation Report



Champlain Hudson Power Express Segments 4 & 5 - Package 3

Fort Edward - Ballston, New York

CHA Project Number: 066076

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1.0 INTRODUCTION

CHA Consulting, Inc. ("CHA") has prepared this wetland and waterbodies delineation report on behalf of Champlain Hudson Power Express, 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, New York State Article 24 Freshwater Wetlands Act (FWW)) & Article 15 (Protection of Waters) of the Environmental Conservation Law along the overland transmission cable route that follows 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 describes the wetland delineation methodology and the existing wetland and waterbody resources that were identified in the Project Corridor (also defined as the Jurisdiction Determination (JD) limits) during field surveys for the overland portions of the Project.

2.0 PACKAGE 3 CORRIDOR OVERVIEW

The entire Project Corridor is approximately 339 miles from Montreal, Quebec, Canada to New York City, New York, USA. Figure 1 below shows the route from the Canadian border to New York City and highlights the approximately 26.5 miles of the Package 3 (Segments 4 & 5) Project Corridor that was investigated for wetlands and waterbodies.

Segment 4 & 5 – Package 3 begins where Package 2 ends (20781+75) on the Canadian Pacific (CP) railroad in the Town of Kingsbury, NY, south of the municipal boundary with the Town of Fort Ann and extends to the Town of Ballston. Segments 4 & 5 Corridor extends approximately 26.5 miles south on CP rail. The Project Corridor for Segment 4 includes the Village of Fort Edward, towns of Moreau, and Wilton. The Project Corridor for Segment 5 includes the City of Saratoga Springs, town of Milton, and the village of Ballston Spa.

3.0 WETLAND DELINEATION METHODOLOGY

To determine the potential for wetland impacts from construction of the Project, CHA assessed the Project Corridor in the field for the presence of federal (Section 404 CWA & Section 10 of the Rivers and Harbors Act of 1899) and state (Article 24 FWW & Article 15 Protection of Waters) jurisdictional wetlands and waterbodies. Greenman Pedersen, Inc. (GPI), Shumaker Consulting (Shumaker), and Fisher Associates (Fisher) assisted with the field work. Wetland scientists from all firms conducted wetland delineations from November through December 2021, throughout 2022, and during January, February & March of 2023. The delineation criteria and methodology were performed in accordance with the 1987 Corps of Engineers Wetland Delineation Manual, the Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Northcentral and Northeast Region Version 2.0 (January 2012), as well as the New York State Freshwater Wetlands Delineation Manual (Browne et. al., 1995).

The Project Corridor for the surveyed portions of the project included the land within the existing CP railroad ROW. The wetland delineation limits were approximately 100 feet from the outside edge of rail, limited to the side of the railroad corridor on which the alignment follows and primarily within the ROW of the railroad.

In accordance with the procedures provided in the *Corps of Engineers 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 Segments 4 & 5 Project Corridor fall under the jurisdiction of the New York State Department of Environmental Conservation (NYSDEC) and/or the U.S. Army Corps of Engineers (USACE). The New York State methodology similarly recognizes the evaluation of the three wetland parameters of vegetation, soils, and hydrology; however, under the New York State methodology the hydrophytic vegetation criterion is mandatory, while the other two parameters are not (Browne et. al. 1995). Wetlands regulated by NYSDEC must be at least 12.4 acres (5 hectares) in size, unless they are deemed to have unusual local importance (Article 24 FWW). The NYSDEC publishes maps of wetland areas under state jurisdiction; however, both agencies use field delineation to determine the precise boundaries of these wetland areas.

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

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. Those that did not but carried stream flow from off-site (redirecting flow through the ditch), were categorized as streams.

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 OHWM for most perennial and intermittent streams. Bankfull width and depth were estimated in the field.

This report documents the wetlands and waterbodies potentially under federal and State jurisdiction that were identified in the Segments 4 & 5 Project Corridor along the current proposed underground transmission cable route. Summaries of wetlands that were identified are provided in Table 4-1 in Attachment 4. Wetlands and Waterbodies Delineation Mapping is included in Attachment 5. Wetland determination data forms and photographic documentation of the wetlands are included in Attachment 1.

4.0 WETLAND & WATERBODIES DELINEATION RESULTS

A total of 85 wetland areas were identified within the Project Corridor totaling approximately 10.91 acres. Table 4-1 in Attachment 4 provides a summary of the wetlands identified along Segments 4 & 5 Project Corridor, including their classification in accordance with Cowardin et al. (1979) and their state or federal jurisdiction. Of these, thirty-one (31) wetlands delineated along the Project Corridor correspond with eleven wetlands mapped by the NYSDEC. These include NYSDEC mapped wetlands HF-1, F-20, F-7, Q-32, GA-20, Q-11, S-7, S-19, S-20, S-21, and S-50. These wetlands are subject to NYSDEC Article 24.

Narrative descriptions of wetland vegetation, hydrology, and soils observed within the Project Corridor 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 Segments 4 & 5 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 and 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)¹ and *Classification of Wetlands and Deepwater*

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¹ 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*

Habitats of the United States (Cowardin 1979)². Using this hierarchical wetland classification system, three primary cover types were identified for vegetated wetlands in the survey corridor: palustrine emergent (PEM), palustrine scrub-shrub (PSS), and palustrine forested (PFO) wetlands. Some wetlands contained co-dominant emergent, scrub-shrub, or forested vegetation. Open water areas (i.e. ponds) were identified as palustrine unconsolidated bottom (PUB)

4.1.1 Palustrine Emergent Wetland

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

Shallow emergent marshes occur on mineral soils or deep muck soils that are permanently saturated and seasonally flooded. Water depths range from 6 inches to 3.3 feet during flood stages (Edinger et. al., 2014). Characteristic vegetation of shallow emergent marshes within the Project Corridor includes cattails (*Typha* spp.), sedges (*Carex* spp.), goldenrods (*Solidago* spp.), sensitive fern (*Onoclea sensibilis*), marsh fern (*Thelypteris palustris*), reed canary grass (*Phalaris arundinacea*), rice cutgrass (*Leersia oryzoides*), devil's beggar ticks (*Bidens frondosa*), spotted joe-pyeweed (*Eutrochium maculatum*), royal fern (*Osmunda spectabilis*), and soft rush (*Juncus effusus*). Invasive species observed within the shallow emergent marshes include common reed (*Phragmites australis*) and purple loosestrife (*Lythrum salicaria*).

Deep emergent marshes occur on mineral soils or fine-grained organic soils with water depths ranging from 6 inches to 6.6 feet (Edinger et. al., 2014). Emergent vegetation observed within

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Communities of New York State. New York Natural Heritage Program, New York State Department of Environmental Conservation, Albany, NY.

² 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.

deep emergent marshes in the Project Corridor includes cattails and bulrushes (*Scirpus* spp.). Common reed and purple loosestrife were observed within some of the deep emergent marshes within the Project Corridor.

Common reed marsh and purple loosestrife marsh 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.

Linear wetland ditches, which have been constructed for drainage or irrigation, are commonly found along the railroad and road ROW's. Vegetation within the ditches is typically dominated by invasive species such as common reed, purple loosestrife, and reed canary grass.

4.1.2 Palustrine Scrub-Shrub Wetland

The scrub-shrub wetland cover type includes areas that are dominated by saplings and shrubs that are less than 20 feet tall (Cowardin et. al., 1979). Scrub-shrub wetlands along the Project Corridor were dominated by speckled alder (*Alnus incana*), white meadowsweet (*Spirea alba*), red osier dogwood (*Cornus sericea*), gray dogwood (*Cornus racemosa*), and honeysuckle (*Lonicera* spp.). Other vegetation observed includes green ash (*Fraxinus pennsylvanica*), and common winterberry (*Ilex verticillata*). 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 wetland to be characterized as forested, it must be dominated by trees and shrubs that are at least six meters tall (Cowardin et. al., 1979). Forested wetlands typically have a mature tree canopy, and depending upon the species and density, can have a broad range of understory and groundcover community components. Forested wetland communities along the Project Corridor include red maple hardwood swamps (Edinger et al., 2014). Palustrine forested wetlands occur as a single dominant wetland cover type and as a co-dominant wetland cover type when other plant community types exist within the wetland (Cowardin et al., 1979).

Red maple-hardwood swamps occur in poorly drained depressions, usually on inorganic soils. Red maple is either the only dominant tree species or is codominant with one or more hardwoods (Edinger et. al, 2014). Hardwood species observed within this community type within the Project Corridor include red maple (*Acer rubrum*), gray birch (*Betula populifolia*), green ash, eastern cottonwood (*Populus deltoides*), American elm (*Ulmus americana*), northern red oak (*Quercus rubra*), swamp white oak (*Quercus bicolor*), eastern hemlock (*Tsuga canadensis*), American beech (*Fagus grandifolia*), and white pine (*Pinus strobus*). Shrub species commonly observed within red maple-hardwood swamps in the Project Corridor include dogwoods, gray birch, green ash, American elm, and honeysuckle. The herbaceous layer typically includes moneywort (*Lysimachia nummularia*), sensitive fern, royal fern, and goldenrods. Invasive species observed within red maple-hardwood forests included honeysuckle and buckthorn.

4.1.4 Open Water

Besides vegetated wetlands, a few scattered small ponds are located along the transmission cable corridor, adjacent to the railroad ROWs. As previously noted, open water communities are identified as palustrine unconsolidated bottom (PUB). 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 consist of silt, mud, cobble, or sand.

4.2 HYDROLOGY

4.2.1 Streams

Table 4-2 lists the 66 streams (perennial [29], intermittent [37]) identified within the Package 3 Project Corridor. The overland transmission cable route is located within the Upper Hudson River watershed. The Upper Hudson River watershed originates in the Adirondack Mountains and flows south to the Hudson River confluence with the Mohawk River at the Troy Dam. The watershed drains a portion of the southern Adirondacks, southwestern Vermont, and a small part of Massachusetts. Perennial waterbodies within the Project Corridor in this watershed include the Hudson River, Snook Kill, Delegan Brook, Spring Run, Putnam Brook, Geyser Brook,

Kayaderosseras Creek, 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), inundation visible on aerial imagery (B7), water marks (B1), and moss trim lines (B16)), 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, geomorphic position (D2) and shallow aquitard (D3) (Attachment 1). Hydrologic factors contributing to the presence of wetland hydrology within wetlands in the Package 3 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 railroad drainage ditches. CHA inspected these ditches for the presence or absence of wetland indicators and hydrologic connectivity to wetlands or streams.

4.3 SOILS

The USDA NRCS soil map units for the Project Corridor are provided in Attachment 3. Indicators of hydric soils included muck or evidence of redox features such as histic epipedon (A2), black histic (A3), hydrogen sulfide (A4), depleted below dark surface (A11), sandy mucky mineral (S1), sandy redox (S5), stripped matrix (S6), dark surface (S7), depleted matrix (F3), redox dark surface (F6), depleted dark surface (F7) and redox depressions (F8) (Attachment 1). Within the Package 3 Project Corridor, a total of 55 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 soil map descriptions (Attachment 3), twelve (12) of the soils mapped within the Project Corridor are classified as hydric soils (Allis silt loam, Carlisle muck, Catden muck, Cheektowaga mucky very fine sandy loam, Covington silty clay loam, Fluvaquents, Fluvaqvents frequently flooded, Limerick-Saco complex, Madalin mucky silty clay loam, Scarboro mucky fine sandy loam, Shaker very fine sandy loam, Sun silt loam and Wareham loamy sand). 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 Segments 4 & 5 Project Corridor and lists the soils that are classified as hydric (or associated with wetland hydrology).

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

4.4 NATURAL RESOURCE CONSERVATION SERVICE SOIL SERIES DESCRIPTIONS

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

Allis Series (As)

These are moderately deep, poorly drained soils formed in till material. These soils are typically found on till plains and less frequently on lake plains. Slopes can range from 0 to 2percent. The A horizon is typically a dark grayish brown clay loam, with moderate fine granular structure, extending 0 to 6 inches deep. The B horizon generally is grayish brown clay loam with weak fine and medium subangular blocky structure. This horizon also has very fine roots and can be extremely acidic. The C horizon consists of weathered shale bedrock at depths 28 to 31 inches. Past this layer is the R Horizon consisting of shale bedrock sometimes interbedded with sandstone or siltstone.

Bernardston Series (BnB)

These are very deep, well drained soils formed in till derived mainly from dark gray phyllite, slate, or shist. The soils usually have a moderately deep to dense till. These soils are typically found on nearly level to very steep uplands. Slopes can range from 0 to 50 percent. The A horizon is

typically a very dark grayish brown silt loam, with moderate, fine or medium granular structure, extending 0 to 6 inches deep. The B horizon generally is yellowish brown to olive brown silt loam with weak or moderate, fine, or medium granular structure. There are some instances where this horizon has weak, fine, or medium subangular blocky structure. The C horizon is olive gray channery silt loam, with weak or moderate, medium platy structure.

Broadalbin Series (BvB & BvC)

These are very deep, well and moderately well drained soils formed in an eolian mantle and the underlying till. These soils are typically found on till plains. Slopes can range from 0 to 40 percent. The A horizon is typically a dark brown fine sandy loam, with moderate medium granular structure, extending 0 to 9 inches deep. The B horizon generally is brown fine sandy loam with moderate fine and medium subangular blocky structure. The C horizon dark grayish brown gravelly fine sandy loam, with massive moderate to medium plate-like divisions.

Carlisle Series (Ca)

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

Catden Series (Ca)

These organic/muck soils are characterized as very deep and very poorly drained. They are formed in highly decomposed woody and herbaceous organic materials in depressions on till plains, lake plains, outwash plains, and flood plains. Saturated hydraulic conductivity is moderately high or high with slopes ranging from 0 to 2 percent. The organic material may extend to a depth of 51 inches or more, and surface tiers are characterized with hues of 5YR to 2.5Y, or neutral, values of 1 to 4 and chromas of 0 to 6. It is dominantly muck (sapric material); however, some pedons have

surface layers of peat (fibric material) or mucky peat (hemic material). The structure of the surface tier is weak or medium, coarse to fine granular, platy, subangular blocky, or is massive. Subsurface and bottom tiers have hues, values and chromas are similar to the surface layers.

Charlton Series (CcC)

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.

Chatfield Series (CeC & CfD)

These moderately deep, well drained soils are formed in loamy melt-out till. They are nearly level to very steep soils on bedrock-controlled hills and ridges. Slope ranges from 0 to 70 percent. The O horizon consists of slightly decomposed leaf, needle, and twig litter and can be extremely acidic. This horizon is typically one inch thick. The A horizon is a very dark gray fine sandy loam, with weak fine subangular blocky structure. The B horizon is strong brown gravelly fine sandy loam, with weak to moderate fine subangular blocky structure. The R horizon is dominantly schist, granite, or gneiss bedrock. In places the R horizon is massive and has vertical and horizontal fractures.

Chenango Series (ChC)

These are very deep, well and somewhat excessively drained soils formed in water-sorted material on outwash plains, kames, eskers, terraces, and alluvial fans. Slope ranges from 0 to 60 percent. Typically, the A horizon is a very dark grayish brown gravelly silt loam, with very weak fine subangular blocky and very blocky structure, extending 0 to 8 inches. The B horizon is dark yellowish brown to brown very gravelly silt loam, with very weak to moderate subangular blocky or granular structure. The C horizon is a dark grayish brown to brown extremely loamy coarse sand, with an upper surface of pebbles, few roots, and 10 percent soft dark brown and dark yellowish brown weathered pebbles. This horizon can be strongly acidic.

Cheektowaga Series (Cg)

These are very deep, poorly drained, and very poorly drained soils formed in sandy deposits overlying clayey lacustrine sediments. They are nearly level soils occurring on lake plains. Slope ranges from 0 to 3 percent. Typically, the A horizon consists of a fine sandy loam and is usually a black color, with moderate very fine granular structure, extending 0 to 9 inches. Occurring after the A horizon is typically an E horizon that is gray loamy fine sand, with very weak very fine granular structure, extending 9 to 15 inches. The B horizon consists of a loamy fine sand and is normally grayish brown to brown, with very weak fine subangular blocky structure. The C horizon is a varved silty clay loam that is brown to reddish brown, with weak medium plate-like divisions, typically extending from 26 to 60 inches.

Claverack Series (CIA & CIB)

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

Cosad Series (Cs)

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

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

Covington Series (Cv)

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

Deerfield Series (DeA & DeB)

These are very deep, moderately well drained soils formed in glaciofluvial deposits. They are nearly level to strongly sloping soils occurring on terraces, deltas, and outwash plains. Slopes range from 0 to 15 percent. The A horizon is very dark brown loamy fine sand with weak fine and medium granular structure, extending from 0 to 9 inches. The B horizon is composed of strong brown to yellowish-brown loamy fine sand, with weak very fine to medium granular to subangular blocky structure. The C horizon is a light brownish gray loamy fine sand with stratified texture of gravel, coarse sand, or loamy coarse sand.

Elmridge Series (EIB)

These are very deep, moderately well drained soils formed in loamy over clayey sediments. They are nearly level to moderately steep soils on glacial lacustrine and marine terraces, and on lake plains. Slope ranges from 0 to 25 percent. Typically, the A horizon consists of a fine sandy loam usually a very dark grayish brown with weak medium granular structure, extending from 0 to 6 inches. The B horizon consists of dark yellowish brown fine dandy loam with weak or moderate granular or subangular blocky structure. The B horizon has iron depletions above a depth of 24

inches. The C horizon is an olive brown varved silt and clay with massive separating to weak thick plates along varved bedding planes.

Fluvaquents (FL & Fl)

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

Hartland Series (HcC)

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

Hoosic Series (HoA)

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 (HuB, HuC, HuD and HuE)

These are very deep, moderately well drained soils formed in clayey and silty lacustrine sediments. These soils are in convex lake plains, lacustrine capped uplands, and on lower valley side-slopes. Slopes can range from 0 to 60 percent. The A horizon is typically brown silt loam and silty clay loam, with granular structure, extending 5 to 12 inches deep. The E horizon, when present, consists of faintly mottled brown, very fine sandy loam or silt loam with blocky or platy structure. The B

horizon generally is firm yellowish brown to brown silty clay with moderate or strong blocky structure and may have medium to very coarse prisms. Low and high-chroma redoximorphic features are present but may be faint or absent in the shallower portions. The C horizon is mixed grayish brown and light olive brown silty clay, with massive structure, or plate-like divisions.

Limerick Series (Lm)

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

Madalin Series (Ma)

These are very deep, poorly drained soils formed in water-deposited materials. They occur on lake plains and depressions in the uplands. Slopes range from 0 to 3 percent. The A horizon is very dark gray silt loam with dry, moderate medium granular structure, extending 0 to 8 inches. The B horizon is composed of a dark grayish brown silty clay with strong to weak medium subangular blocky structure. The C horizon is a grayish brown stratified silt to clay with moderate medium platy structure.

Manlius Series (MnB)

These are moderately deep, well drained to excessively drained soils formed in channery till derived from acid shale and slate. They are nearly level to very steep soils that overlie shale bedrock at depths of 20 to 40 inches. They are found on footslopes, summits, shoulders, and backslopes of ridges and hills on glaciated uplands. Slopes range from 0 to 70 percent. The A horizon is dark grayish brown channery silt loam with dry, moderate fine granular structure to a depth of 3 inches. The B horizon is composed of a yellowish-brown to olive brown channery to extremely channery silt loam with moderate fine and medium subangular blocky structure. The C horizon is a light olive brown extremely channery silt loam with 60 to 95 percent rock fragments,

extending 20 to 36 inches. The R horizon is very dark gray thinly bedded and highly fractured shale and siltstone bedrock starting at 36 inches.

Mosherville Series (MxB)

These are very deep, somewhat poorly drained soils formed in loamy till derived from granite, gneiss, sandstone, and some dark shale in lower horizons. They are found on till plains. Slopes range from 0 to 8 percent. The A horizon is very dark grayish brown loam with moderate fine and medium granular structure, extending 0 to 9 inches. The B horizon when present is composed of a yellowish brown to brown loam to fine sandy loam. This horizon consists of weak granular to very weak fine and medium blocky structure. The C horizon is an olive brown fine sandy loam with moderate medium and thick plate-like divisions.

Oakville Series (OKE, OaA, OaB & OaC)

These are very deep and well drained or moderately well drained soils that were formed in watersorted 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.

Raynham Series (Ra)

These are very deep and poorly drained soils formed in silty estuarine or glaciolacustrine deposits on glacial lake plains and marine terraces. Slopes range from 0 to 12 percent. The A horizon is dark grayish brown silt loam with moderate fine and medium granular structure, extending 0 to 6 inches. The B horizon is composed of a olive gray to olive brown silt loam with weak or moderate,

very fine through medium granular or subangular blocky structure. The C horizon is an olive gray to olive silt loam with massive or plate-like divisions.

Rhinebeck Series (RhA & RhB)

These are very deep, somewhat poorly drained soils formed in clayey lacustrine sediments. They occur on glacial lake plains and uplands mantled with lake sediments. Slopes range from 0 to 15 percent. The A horizon is very dark grayish brown silt loam with moderate medium granular structure to a depth of 9 inches. The E horizon when present is grayish brown silty clay loam with weak medium subangular blocky structure, extending from 9 to 14 inches. The B horizon is olive brown silty clay to silty clay loam with weak to strong prismatic or subangular blocky structure, extending to a depth of 32 inches. The C horizon is typically brown silty clay loam to varved silt and clay with massive or varved very coarse prismatic structure. The C horizon may extend to a depth of 72 inches.

Scarboro Series (Sa)

These are very deep, very poorly drained soils formed in sandy glaciofluvial deposits on outwash plains, deltas, and terraces. They are nearly level soils occurring within depressions. Slopes range from 0 to 3 percent. The O horizon is commonly mucky peat or muck composed with slightly decomposed maple leaves and other plant material. This horizon is typically 0 to 8 inches thick. The A horizon is a black mucky fine sandy loam, with weak medium granular structure. There is no B horizon present. The C horizon is grayish brown loamy to gravelly sand and is structureless and loose starting around 14 inches and extending to 65 inches.

Scio Series (SeB)

These are very deep, moderately well drained soils formed in eolian, lacustrine, or alluvial sediments dominated by silt and very fine sand. These soils occur on terraces, old alluvial fans, lake plains, outwash plains and lakebeds. Slopes range from 0 to 25 percent. The A horizon is dark grayish brown silt loam with moderate fine granular structure extending from 0 to 9 inches. The B horizon is yellowish brown silt loam with weak fine to medium subangular blocky structure. The C horizon is typically brown to grayish brown silt to very gravelly loamy sand. This horizon is massive or single grain, and may have plate-like divisions

Shaker Series (Sh)

These are very deep, poorly drained soils formed in loamy over clayey sediments. They are nearly level to gently sloping soils occurring in low-lying positions on glaciolacustrine and marine terraces. Slopes range from 0 to 8 percent. The O horizon where present is commonly black hemic material extending from 0 to 2 inches. The A horizon is very dark brown fine sandy loam with weak medium granular structure from depths of 2 to 6 inches. The B horizon is light brownish gray to brown sandy loam with weak medium subangular blocky structure. The C horizon is dark yellowish brown varved silt and clay with massive separating to weak plates along varved bedding planes extending from depths of 30 to 65 inches.

Sun Series (Sn)

These are very deep, poorly drained soils formed in till derived primarily from limestone and sandstone with smaller amounts of schist, shale, and granite in some areas. These soils occur in low areas or depressions on till plains. Slopes range from 0 to 3 percent. The A horizon is very dark gray loam with weak coarse granular structure extending from 0 to 9 inches. The B horizon is gray to brown gravelly fine sandy loam with weak medium subangular blocky structure. The C horizon is brown gravelly fine sandy loam with 30 percent rock fragments; common medium and fine faint yellowish-brown masses of iron accumulation extending from depths of 36 to 72 inches.

Sutton Series (StB)

These are very deep, moderately well drained loamy soils formed in melt-out till. They are nearly level to strongly sloping soils occurring on hills, low ridges, and ground moraines, typically on footslopes, lower backslopes and in slight depressions. Slopes range from 0 to 15 percent. The O horizon where present is commonly black moderately decomposed forest plant material extending from 0 to 1 inch. The A horizon is very dark brown fine sandy loam with weak medium granular structure from depths of 1 to 6 inches. In some instances, a thin E horizon below the A horizon is present with structure, and consistency like that of the A horizon. The B horizon is brown to yellowish brown fine sandy loam with weak fine and medium subangular blocky structure. The C horizon is brown to light olive brown gravelly fine sandy loam with weak plates extending from depths of 28 to 65 inches.

Teel Series (Te)

These are very deep, moderately well drained soils formed in nearly level, silty alluvial deposits. They occur on floodplains. Slopes range from 0 to 3 percent. The A horizon is very dark grayish brown silt loam with moderate medium granular structure from depths of 0 to 10 inches. The B horizon is dark grayish brown to brown silt loam with weak or moderate subangular blocky or prismatic structure. The C horizon is dark grayish brown silt loam with massive or plate like divisions from fine stratification extending from depths of 38 to 72 inches.

Tioga Series (Tg)

These are very deep, well drained soils formed in alluvium on higher positions in flood plains. Slopes range from 0 to 3 percent. The A horizon is dark grayish brown silt loam with moderate medium granular structure from depths of 0 to 8 inches. The B horizon is brown to yellowish brown silt loam with weak or moderate subangular blocky, prismatic, or granular structure. The C horizon is dark yellowish brown silt loam with massive too few fine roots extending from depths of 36 to 50 inches.

Udipsamments Series (Ud)

These are very deep, nearly level to undulating, moderately well drained to excessively drained soils formed in dredged materials. Slopes range from 0 to 8 percent. Typically, the texture of the material is loamy sand or sand, with layers of silty material or gravel at varying depths. Subsurface layers are weakly stratified due to occasional new deposits on the surface.

Udorthents Series (Ue)

These are very deep, nearly level to gently sloping areas of well drained loamy soils that are a result of man-made cuts and fills in loamy upland soils. Slopes range from 0 to 8 percent. Typically, the surface layer is dark brown silt loam extending to 5 inches. Layers below the surface are brown and yellowish-brown silt loam containing up to 80 percent rock fragments to a depth of 72 inches or more.

Unadilla Series (UnB & UnC)

These are deep and very deep, well drained soils formed in silty, lacustrine sediments or old alluvial deposits. They typically are found occurring on valley terraces and lacustrine plains. Slopes range from 0 to 50 percent. The A horizon is brown silt loam with moderate fine and very fine granular structure extending from 0 to 8 inches. The B horizon is yellowish brown silt loam with moderate medium subangular blocky structure. The C horizon is dark grayish brown stratified very gravelly sand. The C horizon has massive, single grain, weak to moderate plate-like divisions extending from 42 to 65 inches.

Wallington Series (Wa)

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

Wareham Series (Wa)

These are very deep, poorly, and somewhat poorly drained sandy soils formed in outwash on plains, deltas, and terraces. Slopes range from 0 to 8 percent. The O horizon where present is black highly decomposed plant material extending from 0 to 1 inch although has the possibility of being up to 5 inches thick. The A horizon is very dark grayish brown loamy sand with weak medium granular structure from depths of 1 to 7 inches. The B horizon is yellowish brown loamy coarse sand with weak fine or medium granular or subangular blocky. The C horizon is light brownish gray to pale olive loamy coarse sand to coarse sand with loose; many medium and coarse prominent light olive brown masses of iron accumulations from depths of 17 to 60 inches.

Windsor Series (OeE, WnA, WnB and WnC)

These are very deep, excessively drained soils formed in sandy outwash or eolian deposits. They are nearly level through very steep soils occurring on glaciofluvial landforms. Slopes range from

0 to 60 percent. The O horizon where present is black moderately decomposed forest plant material with many very fine and fine roots extending from 0 to 1 inch. The A horizon is very dark grayish brown loamy sand with weak medium granular structure from depths of 1 to 3 inches. The B horizon is strong brown to yellowish brown loamy sand with weak granular or weak subangular blocky structure. The C horizon is pale brown and light brownish gray sand with massive or single grain and consistency and is very friable or loose from depths of 25 to 65 inches.

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. A small pond also occurs. Stream communities include artificial ditches, intermittent streams, and perennial streams that are tributaries to the Champlain Canal and the Hudson River.

Land use in the study area is diverse, ranging from rural, agricultural, and forested areas to more developed areas. In general, because the Project Corridor is routed along existing railroad corridors, 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 ROW and more natural vegetated wetland communities that are present adjacent to the railroad right-of-way. The wetland boundaries in the Project Corridor are most often defined by the edge of the soil fill for the railroad 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 Package 3 are regulated by USACE (Section 10/404) and NYSDEC (Article 24). Streams and other waterbodies are regulated by USACE (Section 10/404) and NYSDEC (Article 15). Based on review of the NYSDEC wetland mapping, thirty-one (31) delineated wetland areas are identified as regulated under Article 24. These wetlands correspond to eleven mapped wetlands (HF-1, F-20, F-7, Q-32, GA-20, Q-11, S-7, S-19, S-20, S-21, and S-50) regulated by NYSDEC. It is anticipated that USACE will take jurisdiction over all the mapped wetlands within the Project Corridor and NYSDEC will take jurisdiction over the thirty-one

wetlands associated with the NYSDEC freshwater will be made by the respective agencies.	wetlands. Final jurisdictional determinations
CHPE Wetland Delineation Report	CHPE Segments 4 & 5 Package 3

6.0 REFERENCES

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- 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.
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- 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

U.S. Army Corps of Engineers

WETLAND DETERMINATION DATA SHEET – Northcentral and Northeast Region

See ERDC/EL TR-12-1; the proponent agency is CECW-CO-R

OMB Control #: 0710-0024, Exp: 11/30/2024 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)

Project/Site: CHPE Package 3	City/County: Fort Ed	ward/Saratoga	Sampling Date: 3-28-2023		
Applicant/Owner: TDI		State: NY	Sampling Point: Wet P3-0		
Investigator(s): C. Scrivner & C. Einstein	Section, Tov	vnship, Range:			
	relief (concave, conve		Slope %: 0		
Subregion (LRR or MLRA): LRR R Lat: 43.282362 N		-73.568399 W	Datum: WGS 84		
Soil Map Unit Name: Wa: Wallington silt loam, sandy substratum		NWI classification:			
					
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes X	<u> </u>	explain in Remarks.)		
Are Vegetation, Soil, or Hydrologysignificantly distur		nal Circumstances" prese	ent? Yes X No		
Are Vegetation, Soil, or Hydrologynaturally problems	atic? (If needed	l, explain any answers in	Remarks.)		
SUMMARY OF FINDINGS – Attach site map showing san	npling point loca	tions, transects, i	mportant features, etc.		
Hydrophytic Vegetation Present? Yes X No	Is the Sampled Ar	ea			
Hydric Soil Present? Yes X No	within a Wetland?	Yes X	No		
Wetland Hydrology Present? Yes X No	If yes, optional We	tland Site ID: Near flag	g P3-O-3		
Remarks: (Explain alternative procedures here or in a separate report.)					
Common reed marsh and pond. NO upland was collected due to being a m	naintained road for the	composting facility with	no vegetation or hydrology.		
HYDROLOGY					
Wetland Hydrology Indicators:		Secondary Indicators (r	minimum of two required)		
Primary Indicators (minimum of one is required; check all that apply)		Surface Soil Cracks			
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 (
Sediment Deposits (B2) Oxidized Rhizospheres					
Drift Deposits (B3) Presence of Reduced Iro					
Algal Mat or Crust (B4) Recent Iron Reduction in	in Tilled Soils (C6) Geomorphic Position (D2)				
Iron Deposits (B5) Thin Muck Surface (C7)		X Shallow Aquitard ([D3)		
X Inundation Visible on Aerial Imagery (B7) Other (Explain in Remar	ks)Microtopographic Relief (D4)				
Sparsely Vegetated Concave Surface (B8)		X FAC-Neutral Test (D5)		
Field Observations:					
Surface Water Present? Yes X No Depth (inches):	48				
Water Table Present? Yes X No Depth (inches):					
Saturation Present? Yes X No Depth (inches):	: 0 Wetland	d Hydrology Present?	Yes X No		
(includes capillary fringe)					
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:					
Remarks:					

VEGETATION – Use scientific names of plants.

<u>Tree Stratum</u> (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:		
1. Acer negundo	3	No No	FAC			
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		
6.				That Are OBL, FACW, or FAC: 100.0% (A/B)		
7				Prevalence Index worksheet:		
	3	=Total Cover		Total % Cover of: Multiply by:		
Sapling/Shrub Stratum (Plot size:15')				OBL species 5 x 1 = 5		
1. Salix alba	3	No	FACW	FACW species 63 x 2 = 126		
2.				FAC species 3 x 3 = 9		
3.		· <u></u>		FACU species 12 x 4 = 48		
4.				UPL species 2 x 5 = 10		
5.				Column Totals: 85 (A) 198 (B)		
6.				Prevalence Index = B/A = 2.33		
7.				Hydrophytic Vegetation Indicators:		
	3	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation		
Herb Stratum (Plot size: 5')				X 2 - Dominance Test is >50%		
Phragmites australis	45	Yes	FACW	X 3 - Prevalence Index is ≤3.0 ¹		
Solidago gigantea	15	No	FACW	4 - Morphological Adaptations ¹ (Provide supporting		
Solidago canadensis	10	No	FACU	data in Remarks or on a separate sheet)		
Lythrum salicaria	5	No	OBL	Problematic Hydrophytic Vegetation ¹ (Explain)		
5. Arctium minus	2	No	FACU			
6. Hieracium canadense	2	No No	UPL	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.		
7.				Definitions of Vegetation Strata:		
8.						
9.				Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.		
10				Sapling/shrub – Woody plants less than 3 in. DBH		
11.				and greater than or equal to 3.28 ft (1 m) tall.		
12				Herb – All herbaceous (non-woody) plants, regardless		
	79	=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.		· <u></u>				
3.				Hydrophytic		
4.				Vegetation Present? Yes X No		
		=Total Cover				
Remarks: (Include photo numbers here or on a separa	ate sheet)					
Tremands. (morade priote manifestation of on a separt	ato oricot.)					

Sampling Point:

Wet P3-O

SOIL Sampling Point: Wet P3-O

Profile Desci Depth	ription: (Describe to Matrix	the de		ment th k Featur		or or co	nfirm the absence of in	dicators.)		
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks		
0-6	10YR 2/1	100					Mucky Sand			
0-0	1011(2)1	100					Wideky Garia			
		,								
1							2			
	ncentration, D=Depleti	on, RM	l=Reduced Matrix, M	S=Mask	ed Sand	Grains.		Problematic Matrix.		
Hydric Soil II			V. Dark Curfoss /	27)				Problematic Hydric Soils ³ :		
Histosol (X Dark Surface (S	•	o (S9) (I	DD D	2 cm Muck (A10) (LRR K, L, MLRA			
Black His	pedon (A2)		MLRA 149B)		,e (36) (L	.KK K,	Coast Prairie Redox (A16) (LRR K, L, 5 cm Mucky Peat or Peat (S3) (LRR K			
	Sulfide (A4)		Thin Dark Surfa		(LRR R.	MLRA 1				
· ·	Layers (A5)		High Chroma S							
	Below Dark Surface (A11)	Loamy Mucky N							
	rk Surface (A12)	,	Loamy Gleyed			. ,	Piedmont Floodplain Soils (F19) (MLRA			
	odic (A17)		Depleted Matrix	(F3)			Red Parent Material (F21) (outside			
(MLR	A 144A, 145, 149B)		Redox Dark Su	rface (F	6)		Very Shall	ow Dark Surface (F22)		
X Sandy Mu	ucky Mineral (S1)		Depleted Dark	Surface	(F7)		Other (Exp	olain in Remarks)		
Sandy GI	eyed Matrix (S4)		Redox Depressions (F8)							
Sandy Re	edox (S5)		Marl (F10) (LRR K, L)				³ Indicators of hydrophytic vegetation and			
Stripped Matrix (S6)			Red Parent Ma	terial (F2	21) (MLR	A 145)	45) wetland hydrology must be prese			
							unless d	listurbed or problematic.		
	ayer (if observed):									
Type:	Rock/Sto	ne								
Depth (in	ches):	6					Hydric Soil Present?	? Yes <u>X</u> No		
Remarks:										



Wetland P3-O - View facing west



Wetland P3-O - Soils

SITE PHOTOGRAPHS

Segment 4 and 5 – Package 3

Champlain Hudson Power Express



Upland P3-O - View facing north



Upland P3-O - Soils

Segment 4 and 5 – Package 3

SITE PHOTOGRAPHS

Champlain Hudson Power Express

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: CHPE - CP Rail - Fort Edward to Milton Section	City/County: Washington Sampling Date: 11/22/21			
Applicant/Owner: CHPE	State: NY Sampling Point: GR-TT-Wet			
Investigator(s): KW, KS	Section, Township, Range: Fort Edward			
- '/	relief (concave, convex, none): Concave Slope %: 0			
Subregion (LRR or MLRA): LRR R, MLRA 144A Lat: 43°,16',50.74"N	Long: 73°,34',06.05"W Datum:			
Soil Map Unit Name: Claverack Loamy Fine Sand	NWI classification: PFO			
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes X No (If no, explain in Remarks.)			
Are Vegetation, Soil, or Hydrology significantly disturb				
Are Vegetation, Soil, or Hydrologynaturally problema	atic? (If needed, explain any answers in Remarks.)			
SUMMARY OF FINDINGS – Attach site map showing sam	pling point locations, transects, important features, etc.			
Hydrophytic Vegetation Present? Yes X No	Is the Sampled Area			
Hydric Soil Present? Yes X No	within a Wetland? Yes X No			
Wetland Hydrology Present? Yes X No	If yes, optional Wetland Site ID:			
HYDROLOGY				
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)			
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)			
X Surface Water (A1) X Water-Stained Leaves (E	39) X Drainage Patterns (B10)			
High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)			
X Saturation (A3) Marl Deposits (B15)	Dry-Season Water Table (C2)			
X 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)	· · · · · · · · · · · · · · · · · · ·			
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 X No Depth (inches):				
Water Table Present? Yes No X Depth (inches):				
Saturation Present? Yes X No Depth (inches):	<u>2</u> Wetland Hydrology Present? Yes X No			
(includes capillary fringe)				
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	vious inspections), if available:			
Remarks:				
Remarks.				

roo Stratum (Plot size: 20' \	Absolute	Dominant Species?	Indicator	Dominance Test worksheet:
ree Stratum (Plot size: 30')	% Cover	Species?	Status	Dominance Test worksheet:
Acer negundo Populus deltoides	20	Yes	FAC	Number of Dominant Species
Populus deltoides	20	Yes	<u>FAC</u>	That Are OBL, FACW, or FAC:4 (A)
				Total Number of Dominant
				Species Across All Strata: 7 (B)
				Percent of Dominant Species
				That Are OBL, FACW, or FAC: 57.1% (A/E
				Prevalence Index worksheet:
	40	=Total Cover		Total % Cover of: Multiply by:
apling/Shrub Stratum (Plot size:15')				OBL species x 1 =
Lonicera tatarica	20	Yes	FACU	FACW species x 2 =
				FAC species x 3 =
				FACU species x 4 =
				UPL species x 5 =
				Column Totals: (A)
<u> </u>				Prevalence Index = B/A =
				Hydrophytic Vegetation Indicators:
	20	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
erb Stratum (Plot size: 5')		•		X 2 - Dominance Test is >50%
Toxicodendron radicans	5	Yes	FAC	3 - Prevalence Index is ≤3.0 ¹
Symphyotrichum novae-angliae	5	Yes	FACW	4 - Morphological Adaptations ¹ (Provide supporti
Symphyotrichum novae-angliae Solidago canadensis	5	Yes	FACU	data in Remarks or on a separate sheet)
condago canadornos		100	17.00	Problematic Hydrophytic Vegetation ¹ (Explain)
·				1
		·		¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
				Definitions of Vegetation Strata:
. <u> </u>				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
1.	-			and greater than or equal to 3.28 ft (1 m) tall.
2.				
	15	=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: 15')				
. Celastrus orbiculatus	15	Yes	UPL	Woody vines – All woody vines greater than 3.28 ft height.
		165	OF L	neight.
·				Hydrophytic
				Vegetation
				Present? Yes X No
	15	=Total Cover		

SOIL Sampling Point: GR-TT-Wet

Profile Desc	cription: (Describe	to the de	pth needed to docu	ıment t	he indica	tor or c	onfirm the absence o	f indicators.)
Depth	Matrix			x Featu				
(inches)	Color (moist)	%	Color (moist)	<u>%</u>	Type ¹	Loc ²	Texture	Remarks
0-14	7.5YR 2.5/1	97	7.5YR 5/6	3	С	М	Mucky Loam/Clay	Prominent redox concentrations
								_
								_
								_
1 _{Type:} C=C	oncentration, D=Depl	Lotion DA	4-Poducod Matrix N			Croine	² l continu	L=Pore Lining, M=Matrix.
Hydric Soil		ellon, Riv	/i-Reduced Matrix, N	15-Mas	sked Sand	i Grains.		or Problematic Hydric Soils ³ :
Histosol			Polyvalue Belo	w Surfa	re (S8) (I	RR R		ick (A10) (LRR K, L, MLRA 149B)
	pipedon (A2)		MLRA 149B		(00) (1	-ixix ix,		rairie Redox (A16) (LRR K, L, R)
	istic (A3)		Thin Dark Surfa	•) (LRR R	MLRA		icky Peat or Peat (S3) (LRR K, L, R)
	en Sulfide (A4)		High Chroma S					e Below Surface (S8) (LRR K, L)
	d Layers (A5)		Loamy Mucky I					rk Surface (S9) (LRR K, L)
	d Below Dark Surface	e (A11)	Loamy Gleyed					nganese Masses (F12) (LRR K, L, R)
Thick Da	ark Surface (A12)		Depleted Matri				Piedmor	nt Floodplain Soils (F19) (MLRA 149B)
Sandy N	/lucky Mineral (S1)		X Redox Dark Su	ırface (F	- 6)		Mesic S	podic (TA6) (MLRA 144A, 145, 149B)
Sandy G	Gleyed Matrix (S4)		Depleted Dark	Surface	e (F7)		Red Par	ent Material (F21)
Sandy F	Redox (S5)		Redox Depress	sions (F	8)			allow Dark Surface (F22)
	l Matrix (S6)		Marl (F10) (LR	R K, L)			Other (E	xplain in Remarks)
Dark Su	rface (S7)							
2								
			vetland hydrology mu	ıst be p	resent, ur	iless dis	turbed or problematic.	
	Layer (if observed):							
Type:								
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/F3	ב_טטנ	SOMENT	S/Hrcs 12	12p2_051293.docx)	



Wetland G-R-TT- View facing South



Wetland G-R-TT- Soils

SITE PHOTOGRAPHS

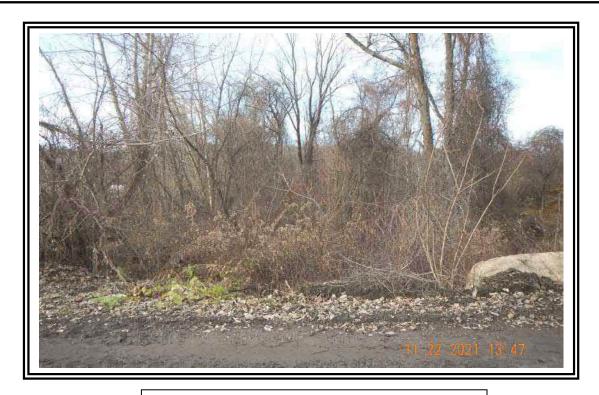
WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: CHPE - CP Rail - Fort Edward to Milton Section	City/County: Washington Sampling Date: 11/22/21
Applicant/Owner: CHPE	State: NY Sampling Point: GR-TT-Up
Investigator(s): KW, KS	Section, Township, Range: Fort Edward
Landform (hillside, terrace, etc.): Lake Plains Local	relief (concave, convex, none): Concave Slope %: 10
Subregion (LRR or MLRA): LRR R, MLRA 144A Lat: 43°,16',50.74"N	Long: 73°,34',06.05"W Datum:
Soil Map Unit Name: Claverack Loamy Fine Sand	NWI classification: None
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes X No (If no, explain in Remarks.)
Are Vegetation , Soil , or Hydrology significantly disturb	
Are Vegetation , Soil , or Hydrology naturally problema	
SUMMARY OF FINDINGS – Attach site map showing sam	
Hydrophytic Vegetation Present? Yes No X	Is the Sampled Area
Hydric Soil Present? Yes No X	within a Wetland? Yes No X
Wetland Hydrology Present? Yes No X	If yes, optional Wetland Site ID:
Remarks: (Explain alternative procedures here or in a separate report.)	
HYDROLOGY	
	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) Surface Soil Cracks (B6)
Surface Water (A1) Water-Stained Leaves (E	
High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)
Saturation (A3) Marl Deposits (B15)	Dry-Season Water Table (C2)
Water Marks (B1) Hydrogen Sulfide Odor (
Sediment Deposits (B2) Oxidized Rhizospheres of	· · · · · · · · · · · · · · · · · · ·
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	evious inspections), if available:
Remarks:	

35 115 50	Species? Yes Yes Total Cover	Status FAC FAC	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: 3 (A) Total Number of Dominant Species Across All Strata: 8 (B) Percent of Dominant Species That Are OBL, FACW, or FAC: 37.5% (A/B)
50	Yes		That Are OBL, FACW, or FAC: 3 (A) Total Number of Dominant Species Across All Strata: 8 (B) Percent of Dominant Species
50		FAC	That Are OBL, FACW, or FAC: 3 (A) Total Number of Dominant Species Across All Strata: 8 (B) Percent of Dominant Species
-	=Total Cover		Species Across All Strata: 8 (B) Percent of Dominant Species
-	=Total Cover		Species Across All Strata: 8 (B) Percent of Dominant Species
-	=Total Cover		
-	=Total Cover		
-	=Total Cover		<u> </u>
-	=Total Cover		Prevalence Index worksheet:
10			Total % Cover of: Multiply by:
10			OBL species x 1 =
10	Yes	UPL	FACW species x 2 =
10	Yes	FACU	FAC species x 3 =
			FACU species x 4 =
			UPL species x 5 =
			Column Totals: (A) (B
			Prevalence Index = B/A =
			Hydrophytic Vegetation Indicators:
20	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
			2 - Dominance Test is >50%
5	Yes	FACU	3 - Prevalence Index is ≤3.0 ¹
15	Yes	FACU	4 - Morphological Adaptations ¹ (Provide supportin
			data in Remarks or on a separate sheet)
			Problematic Hydrophytic Vegetation ¹ (Explain)
	· 		¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
			Definitions of Vegetation Strata:
			Tree – Woody plants 3 in. (7.6 cm) or more in
			diameter at breast height (DBH), regardless of height.
			Sapling/shrub – Woody plants less than 3 in. DBH
			and greater than or equal to 3.28 ft (1 m) tall.
			Harb. All bank account (non-unadus) plante, regardles
20	=Total Cover		Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
			Manaka di ana Allamanka di ana manaka dha a 2 20 ft in
5	No	FAC	Woody vines – All woody vines greater than 3.28 ft ir height.
10	Yes	FAC	- C
25	Yes	UPL	Hydrophytic
			Vegetation Present? Yes No X
10	=Total Cover		
	5 15 20 5	5 Yes 15 Yes 20 =Total Cover 5 No 10 Yes 25 Yes 40 =Total Cover	5

SOIL Sampling Point: GR-TT-Up

Depth	matrix	o the de		ı ment tı k Featur		itor or co	onfirm the absence of	indicators.)		
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture		Remarks	3
0-5	10YR 5/2	100					Sandy			
5-12	10YR 3/2	100					Loamy/Clayey			
							_			
¹ Type: C=Co	oncentration, D=Depl	etion, RM	 1=Reduced Matrix, M	IS=Mas	ked Sand	d Grains.	² Location: PL	.=Pore Linin	g, M=Matri	х.
Hydric Soil			·				Indicators fo			
Histosol			Polyvalue Belo		ce (S8) (I	LRR R,	2 cm Mud	k (A10) (LR	R K, L, MI	_RA 149B)
	pipedon (A2)		MLRA 149B					airie Redox (
Black Hi			Thin Dark Surfa							LRR K, L, R)
	n Sulfide (A4)		High Chroma S					Below Surf		
	l Layers (A5) d Below Dark Surface	(Δ11)	Loamy Mucky I			K K, L)		Surface (S		(LRR K, L, R)
	ark Surface (A12)	(A11)	Depleted Matri:		1 2)					(LKK K, L, K)) (MLRA 149B)
	lucky Mineral (S1)		Redox Dark Su		·6)					A, 145, 149B)
	leyed Matrix (S4)		Depleted Dark					nt Material (,
Sandy R	edox (S5)		Redox Depress	sions (F	8)		Very Sha	llow Dark Sເ	ırface (F22	2)
Stripped	Matrix (S6)		Marl (F10) (LR	R K, L)			Other (Ex	plain in Ren	narks)	
Dark Su	rface (S7)									
³ Indicators of	f hydrophytic vegetati	on and w	otland bydrology my	ict ho ni	ocont ur	aloce diet	urbed or problematic			
	Layer (if observed):	on and w	reliand hydrology mi	ist be pr	esent, ur	iless dist	arbed or problematic.			
Type:	zayor (ii oboorvou).									
Depth (ir	nches):						Hydric Soil Presen	t? Y	es	No X
Remarks:	,									
rtomants.										



Upland G-R-TT- View facing West



Upland G-R-TT- View from East

SITE PHOTOGRAPHS

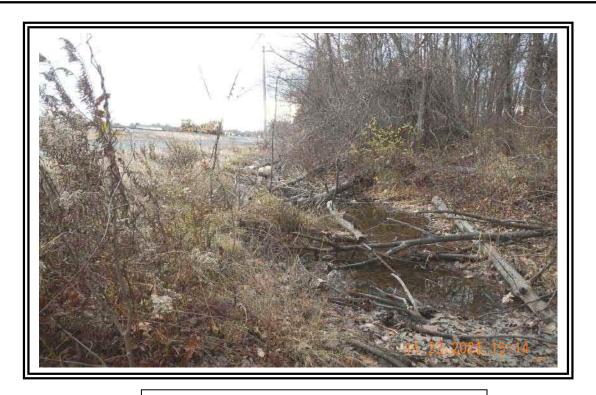
WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: CHPE - CP Rail - Fort Edward to Milton Section	City/County: Washington Sampling Date: 11/22/21					
Applicant/Owner: CHPE	State: NY Sampling Point: GR-UU-Wet					
Investigator(s): KW, KS	Section, Township, Range: Fort Edward					
- ' '	relief (concave, convex, none): Concave Slope %: 0					
Subregion (LRR or MLRA): LRR R, MLRA 144A Lat: 43°,16',43.00"N	Long: 73°,34',16.50"W Datum:					
Soil Map Unit Name: Wallington Silt Loam	NWI classification: PFO					
Are climatic / hydrologic conditions on the site typical for this time of year?						
Are Vegetation, Soil, or Hydrologysignificantly disturb						
Are Vegetation, Soil, or Hydrologynaturally problema						
SUMMARY OF FINDINGS – Attach site map showing samp						
Hydrophytic Vegetation Present? Yes X No	Is the Sampled Area					
Hydrophytic Vegetation Present? Yes X No Hydric Soil Present? Yes X No	within a Wetland? Yes X No					
Wetland Hydrology Present? Yes X No	If yes, optional Wetland Site ID:					
East side of wetland along tracks disturbed by railroad yard activities - ballate	st, ties, placed, etc					
HYDROLOGY						
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)					
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)					
X Surface Water (A1) X Water-Stained Leaves (B	39) X Drainage Patterns (B10)					
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) 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)	FAC-Neutral Test (D5)					
Field Observations:						
Surface Water Present? Yes X No Depth (inches):						
Water Table Present? Yes No X Depth (inches):						
Saturation Present? Yes No X Depth (inches):	Wetland Hydrology Present? Yes X No					
(includes capillary fringe)						
Describe Recorded Data (stream gauge, monitoring well, aerial photos, prev	vious inspections), ii available:					
Remarks:						
Tromano.						

	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
Populus deltoides	20	Yes	FAC	Number of Deminant Cresics
. Acer negundo	20	Yes	FAC	Number of Dominant Species That Are OBL, FACW, or FAC: 6 (A)
Ulmus americana	15	Yes	FACW	
				Total Number of Dominant Species Across All Strata: 9 (B)
				Percent of Dominant Species That Are OBL, FACW, or FAC: 66.7% (A/B
	-			Prevalence Index worksheet:
	 55	=Total Cover		Total % Cover of: Multiply by:
apling/Shrub Stratum (Plot size: 15')		Total Gover		OBL species x 1 =
. Cornus racemosa	10	Yes	FAC	FACW species x 2 =
	10	Yes	FACU	
		168	FACU	<u> </u>
				FACU species x 4 =
·	-			UPL species x 5 =
·				Column Totals: (A) (B
·				Prevalence Index = B/A =
·				Hydrophytic Vegetation Indicators:
	20	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
erb Stratum (Plot size:5')				X 2 - Dominance Test is >50%
Carex stricta	5	Yes	OBL	3 - Prevalence Index is ≤3.0 ¹
Phalaris arundinacea	5	Yes	FACW	4 - Morphological Adaptations ¹ (Provide supporting
				data in Remarks or on a separate sheet)
· <u></u>				Problematic Hydrophytic Vegetation ¹ (Explain)
·				¹ Indicators of hydric soil and wetland hydrology must
				be present, unless disturbed or problematic.
· <u></u>				Definitions of Vegetation Strata:
				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.				Hards All bank and a conformation of the state of the sta
	10	=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: 15')				
. Celastrus orbiculatus	15	Yes	UPL	Woody vines – All woody vines greater than 3.28 ft in height.
Rubus allegheniensis	10	Yes	FACU	no gra
indus allegitetiletisis	10	103	17.00	Hydrophytic
				Vegetation Present? Yes X No
		-Tetal Cause		Present? Yes X No
	25	=Total Cover		

SOIL Sampling Point: GR-UU-Wet

Profile Desc	cription: (Describe	to the de	pth needed to docu	ıment t	he indica	tor or c	onfirm the absence o	f indicators.)
Depth	Matrix			k Featu	res			
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-6	10YR 4/2	100					Loamy/Clayey	
6-14	10YR 5/1	97	10YR 5/6	3	<u>C</u>	<u>M</u>	Mucky Loam/Clay	Prominent redox concentrations
	· 							
1								
¹ Type: C=C	oncentration, D=Dep	letion, RN	1=Reduced Matrix, N	1S=Mas	ked Sand	d Grains.		PL=Pore Lining, M=Matrix.
Hydric Soil	Indicators:							or Problematic Hydric Soils ³ :
Histosol			Polyvalue Belo		ce (S8) (LRR R,		uck (A10) (LRR K, L, MLRA 149B)
	pipedon (A2)		MLRA 149B)					rairie Redox (A16) (LRR K, L, R)
	istic (A3)		Thin Dark Surfa					ucky Peat or Peat (S3) (LRR K, L, R)
	en Sulfide (A4) d Layers (A5)		High Chroma S Loamy Mucky I					ue Below Surface (S8) (LRR K, L) rk Surface (S9) (LRR K, L)
	d Below Dark Surface	- (Δ11)	Loamy Gleyed			K K, L)		nganese Masses (F12) (LRR K, L, R)
	ark Surface (A12)	(/(11)	X Depleted Matrix		(1 <i>2)</i>			nt Floodplain Soils (F19) (MLRA 149B)
	/ucky Mineral (S1)		Redox Dark Su		- 6)			podic (TA6) (MLRA 144A, 145, 149B)
	Gleyed Matrix (S4)		Depleted Dark	•				rent Material (F21)
Sandy F	Redox (S5)		Redox Depress	sions (F	8)		Very Sh	allow Dark Surface (F22)
Stripped	d Matrix (S6)		Marl (F10) (LR	R K, L)			Other (E	explain in Remarks)
Dark Su	ırface (S7)							
³ Indicators o	f hydronbytic vocatat	ion and w	etland budralage me	ot bo n	rocent u	alooo dia	turbad ar problematic	
	Layer (if observed):		reliand hydrology mic	ist be p	resent, ur	iless dis	turbed or problematic.	
Type:	Layer (ii observea).							
Depth (i	nches):						Hydric Soil Prese	nt? Yes X No
							Tryunc 3011 Frese	165 <u>/</u> NO
Remarks:	rm is revised from No	rthcontra	and Northeast Pegi	onal Su	nnlement	t Version	2 0 to include the NP(CS Field Indicators of Hydric Soils,
	2015 Errata. (http://w							55 Field Indicators of Frydric Solls,
·	` '		o .	_			,	



Wetland G-R-UU- View facing xx



Wetland G-R-UU- Soils

SITE PHOTOGRAPHS

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: CHPE - CP Rail - Fort Edward to Milton Section	City/County: Washington Sampling Date: 11/22/21
Applicant/Owner: CHPE	State: NY Sampling Point: GR-UU-Up
Investigator(s): KW, KS	Section, Township, Range: Fort Edward
- ' '	relief (concave, convex, none): Concave Slope %: 5
Subregion (LRR or MLRA): LRR R, MLRA 144A Lat: 43°,16',43.00"N	Long: 73°,34',16.50"W Datum:
Soil Map Unit Name: Wallington Silt Loam	NWI classification: None
Are climatic / hydrologic conditions on the site typical for this time of year?	
	
Are Vegetation X, Soil , or Hydrology significantly disturb	
Are Vegetation, Soil, or Hydrologynaturally problema	
SUMMARY OF FINDINGS – Attach site map showing sam	pling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes 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:
Surrounding areas all disturbed with railyard stockpiles and ties.	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) Water-Stained Leaves (E	· · · · · · · · · · · · · · · · · · ·
High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)
Saturation (A3)Marl Deposits (B15)	Dry-Season Water Table (C2)
Water Marks (B1) Hydrogen Sulfide Odor (· · · · · · · · · · · · · · · · · · ·
Sediment Deposits (B2) Oxidized Rhizospheres of Particular Partic	
Presence of Reduced Iro	
Algal Mat or Crust (B4) Recent Iron Reduction in This Must Surface (C7)	· , · · · · · · · · · · · · · · · · ·
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):	
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	
Describe Necorded Data (stream gauge, monitoring well, aerial protos, pre	vious inspections), ii available.
Remarks:	

	Absolute	Dominant	Indicator	<u> </u>
Free Stratum (Plot size: 30')	% Cover	Species?	Status	Dominance Test worksheet:
Populus deltoides	5	No	FAC	Number of Dominant Species
. Acer negundo	5	No	FAC	That Are OBL, FACW, or FAC: 0 (A)
. Fraxinus americana	10	Yes	FACU	Total Number of Dominant
. Acer saccharum	10	Yes	FACU	Species Across All Strata:6 (B)
i.				Percent of Deminant Species
i				Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B
				Prevalence Index worksheet:
	30	=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15')				OBL species x 1 =
Lonicera tatarica	5	Yes	FACU	FACW species x 2 =
. Rubus allegheniensis	5	Yes	FACU	FAC species x 3 =
				FACU species x 4 =
				UPL species x 5 =
				Column Totals: (A) (B
	,			Prevalence Index = B/A =
				Hydrophytic Vegetation Indicators:
·	10	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
l <u>erb Stratum</u> (Plot size: 5')		- Total Cover		2 - Dominance Test is >50%
	5	No	UPL	3 - Prevalence Index is ≤3.0 ¹
Centaurea stoebe		No No		4 - Morphological Adaptations ¹ (Provide supportin
Daucus carota	5	No No	UPL	data in Remarks or on a separate sheet)
Setaria faberi	25	Yes	FACU	
·				Problematic Hydrophytic Vegetation ¹ (Explain)
i i				¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
•				Definitions of Vegetation Strata:
				Tree – Woody plants 3 in. (7.6 cm) or more in
				diameter at breast height (DBH), regardless of height.
0.				Sapling/shrub – Woody plants less than 3 in. DBH
1.				and greater than or equal to 3.28 ft (1 m) tall.
2.				Harle All hards a constant of the state of t
	35	=Total Cover		Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
Voody Vine Stratum (Plot size: 15')				
. Celastrus orbiculatus	15	Yes	UPL	Woody vines – All woody vines greater than 3.28 ft in height.
				no gra
·				Hydrophytic
	-			Vegetation Present? Yes No
·.	15	=Total Cover		Present? Yes No
		= LOTAL COVER		

SOIL Sampling Point: GR-UU-Up

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.	Depth	ription: (Describe t Matrix	o the de		ument tr x Featur		itor or co	onfirm the absence of indi	cators.)	
"Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. "Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, Histosol (A1) Polyvalue Below Surface (S8) (LRR R, Cast Prairie Redox (A16) (LRR K, L, R) Coast Prairie Redox (A16) (LRR K, L, R) Coast Prairie Redox (A16) (LRR K, L, R) Polyvalue Below Surface (S9) (LRR R, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Polyvalue Below Surface (S9) (LRR R, L) Polyvalue Below Surface (S9) (LRR K, L, R) Polyvalue Below Surface (S9) (LRR K, L) Polyvalue Below Surface (S9) (LR			%				Loc ²	Texture	Remar	ks
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) High Chroma Sands (S1) (LRR R, L) High Chroma Sands (S11) (LRR K, L) Depleted Below Dark Surface (A11) Depleted Below Dark Surface (A11) Loamy Mileyed Matrix (F3) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Redox Dark Surface (A12) Depleted Matrix (F3) Piedmont Floodplain Soils (F19) (MLRA K, L) Find Dark Surface (A12) Depleted Matrix (F3) Redox Dark Surface (A12) Sandy Mucky Mineral (S1) Redox Dark Surface (F7) Redox Dark Surface (F7) Redox Dark Surface (F7) Redox Dark Surface (F7) Sandy Redox (S5) Marl (F10) (LRR K, L) Dark Surface (F7) Mesic Spoilor (TA6) (MLRA 144A, 145, 149B) Dark Surface (F7) Stripped Matrix (S6) Marl (F10) (LRR K, L) Dark Surface (F7) Mesic Spoilor (TA6) (MLRA 144A, 145, 149B) Dark Surface (F7) Stripped Matrix (S6) Marl (F10) (LRR K, L) Dark Surface (F7) Marl (F10) (LRR K, L) Dark Surface (F7) Marl (F10) (LRR K, L) Dark Surface (F7) Were Shallow Dark Surface (F22) Stripped Matrix (S6) Dark Surface (F7) Were Shallow Dark Surface (F7) All (F10) (LRR K, L) Dark Surface (F7) Were Shallow Dark Surface (F22) Stripped Matrix (S6) Dark Surface (F7) Were Shallow Dark Surface (F72) Were S	0-4	10YR 4/3	100					Sandy		
"Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) High Chroma Sands (S1) (LRR R, L) High Chroma Sands (S1) (LRR K, L) Depleted Below Dark Surface (A11) Depleted Below Dark Surface (A11) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1	4-10	10YR 3/2	100					Loamy/Clayey		
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Histosol (A1)			elion, raiv	I-Reduced Matrix, N	113-IVIAS	keu San	d Grains.			•
Black Histic (A3)	-			Polyvalue Belo	w Surfa	ce (S8) (LRR R,		-	
Hydrogen Sulfide (A4) High Chroma Sands (S11) (LRR K, L) Stratified Layers (A5) Loamy Mucky Mineral (F1) (LRR K, L) Depleted Below Dark Surface (S9) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L, R) Thick Dark Surface (A12) Depleted Matrix (F2) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Depleted Dark Surface (F7) Sandy Redox (S5) Redox Depressions (F8) Stripped Matrix (S6) Dark Surface (S7) Marl (F10) (LRR K, L) Other (Explain in Remarks) Joak Surface (S7) Restrictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes No X	Histic Ep	pipedon (A2)		MLRA 149B)			Coast Prairie	Redox (A16) (LF	RR K, L, R)
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) Thick Dark Surface (A12) Depleted Matrix (F3) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Depleted Dark Surface (F7) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) Marl (F10) (LRR K, L) Other (Explain in Remarks) Type: Depth (inches): Hydric Soil Present? Yes No X	Black Hi	stic (A3)						5 cm Mucky F	eat or Peat (S3)	(LRR K, L, R)
Depleted Below Dark Surface (A11) Loamy Gleyed Matrix (F2) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Depleted Dark Surface (F6) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) Stripped Matrix (S6) Dark Surface (S7) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Depth (inches): Type: Depth (inches): Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Mesic Spodic (TA6) (MLRA 144A, 145										
Thick Dark Surface (A12) Depleted Matrix (F3) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Depleted Dark Surface (F7) Red Parent Material (F21) Sandy Redox (S5) Redox Depressions (F8) Stripped Matrix (S6) Dark Surface (S7) Marl (F10) (LRR K, L) Other (Explain in Remarks) Jandicators 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							R K, L)			
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Stripped Matrix (S6)										22)
Dark Surface (S7) 3Indicators 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						-,			· ·	,
Restrictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes No X		• •			, ,				,	
Restrictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes No X										
Type:		, , , ,	ion and w	∕etland hydrology mι	ust be pr	esent, ur	nless dist	urbed or problematic.		
Depth (inches): Hydric Soil Present? Yes No X		Layer (if observed):								
	•									
Remarks:	Depth (ii	nches):						Hydric Soil Present?	Yes	NoX
	Remarks:									



Upland G-R-UU- View facing East



Upland G-R-UU- View from Southeast

SITE PHOTOGRAPHS

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: CHPE - Package 3 - Trius Inc MP 134.1	City/County: Saratoga Sampling Date: 08/03/22					
Applicant/Owner: CHPE	State: NY Sampling Point: G-P3-C_WET					
Investigator(s): KW, KS	Section, Township, Range: Saratoga					
Landform (hillside, terrace, etc.): Footslope Local r	relief (concave, convex, none): Concave Slope %: 0					
Subregion (LRR or MLRA): LRR R, MLRA 144A Lat: 43°,16',34.32"N	Long: 73°,34',27.18"W Datum:					
Soil Map Unit Name: Kingsbury Silty Clay	NWI classification: PFO					
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes X No (If no, explain in Remarks.)					
Are Vegetation, Soil, or Hydrology significantly disturb						
Are Vegetation , Soil , or Hydrology naturally problema						
SUMMARY OF FINDINGS – Attach site map showing samp						
The second secon						
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) X 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)						
X Water Marks (B1) Hydrogen Sulfide Odor (
Sediment Deposits (B2) Oxidized Rhizospheres of						
Drift Deposits (B3) Presence of Reduced Iro						
Algal Mat or Crust (B4) Recent Iron Reduction in						
Iron Deposits (B5) Thin Muck Surface (C7)	Shallow Aquitard (D3)					
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remark						
	X FAC-Neutral Test (D5)					
Sparsely Vegetated Concave Surface (B8)	A FAC-Neutral Test (D5)					
Field Observations:						
Surface Water Present? Yes No X Depth (inches):						
Water Table Present? Yes No X Depth (inches):						
Saturation Present? Yes X No Depth (inches):	10 Wetland Hydrology Present? Yes X No					
(includes capillary fringe)						
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	vious inspections), if available:					
Remarks:						
I .						

ree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator	Deminance Test worksheet
	% Cover	Species?	Status	Dominance Test worksheet:
Acer negundo	20	Yes	FAC	Number of Dominant Species
2. Fraxinus americana	10	Yes	FACU	That Are OBL, FACW, or FAC:5 (A)
3. <u>Ulmus americana</u>	15	Yes	FACW	Total Number of Dominant
1				Species Across All Strata: 8 (B)
5.				Percent of Dominant Species
5.				That Are OBL, FACW, or FAC: 62.5% (A/B)
7				Prevalence Index worksheet:
C. I'm (Ohmit Ohmitum (Plot size) 15'	45	_=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15')	15	Von	- A O\A/	OBL species x 1 =
1. Cornus amomum	15	Yes	FACU	FACW species x 2 =
2. Lonicera tatarica	15	Yes	FACU	FACT species x 3 =
3. Rhamnus cathartica	5	No	<u>FAC</u>	FACU species x 4 =
4.				UPL species x 5 = (A)
5.				Column Totals: (A) (B)
6.				Prevalence Index = B/A =
7				Hydrophytic Vegetation Indicators:
	35	_=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5')			3=1	X 2 - Dominance Test is >50%
1. Lythrum salicaria	10	Yes	OBL	3 - Prevalence Index is ≤3.0 ¹
2. Phragmites australis	<u>15</u>	Yes	FACW	4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
3. Impatiens capensis	5	No	FACW	
4. Eupatorium perfoliatum	5	No	FACU	Problematic Hydrophytic Vegetation ¹ (Explain)
5. Circaea canadensis	5	No	FACU	¹ Indicators of hydric soil and wetland hydrology must
6. Epilobium coloratum	5	No	OBL	be present, unless disturbed or problematic.
7.				Definitions of Vegetation Strata:
8		<u> </u>		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
	45	=Total Cover		of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size: 15')				Woody vines – All woody vines greater than 3.28 ft in
Parthenocissus quinquefolia	5	Yes	FACU	height.
2.				Hydrophytic
3.				Vegetation
4				Present? Yes X No No
	5	=Total Cover		

Profile Desc Depth	cription: (Describe to Matrix	the de	-	ıment tl x Featur		ator or c	onfirm the absence o	f indicators.)
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-14	7.5YR 2.5/1	97	10YR 4/6	3	С	M	Mucky Loam/Clay	Prominent redox concentrations
1- 0.0							21	
Type: C=Co	oncentration, D=Deple	etion, RI	/I=Reduced Matrix, N	/IS=Mas	ked San	d Grains.		CL=Pore Lining, M=Matrix. or Problematic Hydric Soils ³ :
Histosol			Polyvalue Belo	w Surfa	ce (S8) (LRR R,		uck (A10) (LRR K, L, MLRA 149B)
	pipedon (A2)		MLRA 149B		` /\	,		rairie Redox (A16) (LRR K, L, R)
Black Hi	stic (A3)		Thin Dark Surf	ace (S9)	(LRR R	, MLRA	149B) 5 cm Mu	ucky Peat or Peat (S3) (LRR K, L, R)
Hydroge	n Sulfide (A4)		High Chroma S	Sands (S	611) (LR I	R K, L)	Polyvalu	ie Below Surface (S8) (LRR K, L)
Stratified	d Layers (A5)		Loamy Mucky	Mineral	(F1) (LR	R K, L)	Thin Da	rk Surface (S9) (LRR K, L)
Depleted	d Below Dark Surface	(A11)	Loamy Gleyed	Matrix (F2)		Iron-Mai	nganese Masses (F12) (LRR K, L, R)
Thick Da	ark Surface (A12)		Depleted Matri	x (F3)			Piedmor	nt Floodplain Soils (F19) (MLRA 149B)
Sandy M	lucky Mineral (S1)		X Redox Dark Su	ırface (F	6)		Mesic S	podic (TA6) (MLRA 144A, 145, 149B)
Sandy G	Gleyed Matrix (S4)		Depleted Dark	Surface	(F7)			ent Material (F21)
	ledox (S5)		Redox Depress		8)			allow Dark Surface (F22)
	Matrix (S6)		Marl (F10) (LR	R K , L)			Other (E	explain in Remarks)
Dark Su	rface (S7)							
³ Indicators of	f hydrophytic vegetation	on and v	vetland hydrology mu	ıst be pr	esent, ui	nless dis	turbed or problematic.	
	Layer (if observed):							
Type:	a a b a a \						Hudria Cail Dragge	nt2 Van V Na
Depth (ir	iches).						Hydric Soil Prese	nt? Yes X No
Remarks:	m is revised from Nor	thcentra	I and Northeast Regi	ional Su	nnlemen	t Version	2 0 to include the NR0	CS Field Indicators of Hydric Soils,
	2015 Errata. (http://ww							50 Ficial maloators of Fryario cons,
	oit possible due to soli						, = ,	



Wetland G-P3-C



Wetland G-P3-C- Soils

SITE PHOTOGRAPHS

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: CHPE - Package 3 - Trius Inc MP 134.1	City/County: Saratoga Sampling Date: 08/03/22
Applicant/Owner: CHPE	State: NY Sampling Point: G-P3-C_UP
Investigator(s): KW, KS	Section, Township, Range: Saratoga
Landform (hillside, terrace, etc.): Footslope Local r	relief (concave, convex, none): Concave Slope %: 0
Subregion (LRR or MLRA): LRR R, MLRA 144A Lat: 43°,16',34.32"N	Long: 73°,34',27.18"W Datum:
Soil Map Unit Name: Kingsbury Silty Loam	NWI classification: None
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	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.)	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) Water-Stained Leaves (E	
High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)
Saturation (A3) Marl Deposits (B15)	Dry-Season Water Table (C2)
Water Marks (B1) Hydrogen Sulfide Odor (
Sediment Deposits (B2) Oxidized Rhizospheres of	
Drift Deposits (B3) Presence of Reduced Iro	
Algal Mat or Crust (B4) Recent Iron Reduction in	Tilled Soils (C6) Geomorphic Position (D2)
Iron Deposits (B5) Thin Muck Surface (C7)	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7) Other (Explain in 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:	
I .	

	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:			
ree Stratum (Plot size: 30') . Acer negundo	% Cover 15	Yes	FAC				
Fraxinus americana	10	Yes	FACU	Number of Dominant Species That Are OBL, FACW, or FAC: 3 (A)			
Traxillus americana		165	FACO	That Ale Obl., I ACW, OF I AC(A)			
				Total Number of Dominant Species Across All Strata: 7 (B)			
				Species Across All Strata: 7 (B)			
·		· ——		Percent of Dominant Species			
·	-	· ——		That Are OBL, FACW, or FAC: 42.9% (A/E			
· ,	25	=Total Cover					
anling/Shruh Stratum (Diat size: 15')		- Total Covel		Total % Cover of: Multiply by:			
apling/Shrub Stratum (Plot size: 15') Rhamnus cathartica	10	Vaa	FAC	OBL species x 1 =			
Rhamnus cathartica	10	Yes	FAC	FACW species x 2 =			
Lonicera tatarica	15	Yes	FACU	FAC species x 3 =			
				FACU species x 4 =			
	-	· ——		UPL species x 5 =			
		· ——		Column Totals: (A) (E			
				Prevalence Index = B/A =			
		·		Hydrophytic Vegetation Indicators:			
	25	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation			
erb Stratum (Plot size: 5')				2 - Dominance Test is >50%			
Centaurea stoebe	15	Yes	UPL	3 - Prevalence Index is ≤3.0 ¹			
Lythrum salicaria	5	No	OBL	4 - Morphological Adaptations ¹ (Provide supporti data in Remarks or on a separate sheet)			
Phragmites australis	10	Yes	FACW				
Solidago altissima	10	Yes	FACU	Problematic Hydrophytic Vegetation ¹ (Explair			
·				¹ Indicators of hydric soil and wetland hydrology must			
·				be present, unless disturbed or problematic.			
· <u></u>				Definitions of Vegetation Strata:			
·				Tree – Woody plants 3 in. (7.6 cm) or more in			
·				diameter at breast height (DBH), regardless of heigh			
0				Sapling/shrub – Woody plants less than 3 in. DBH			
1				and greater than or equal to 3.28 ft (1 m) tall.			
2				Herb – All herbaceous (non-woody) plants, regardles			
	40	=Total Cover		of size, and woody plants less than 3.28 ft tall.			
/oody Vine Stratum (Plot size: 15')				Woody vines – All woody vines greater than 3.28 ft			
(1 lot 6/26.				height.			
				Hadaaa kada			
·				Hydrophytic Vegetation			
				Vegetation Present? Yes No X			

SOIL Sampling Point G-P3-C_UP

		o the de				tor or co	onfirm the absence of in	dicators.)
Depth	Matrix	0/		x Featur		1 - 2	T 4	Demonde
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-12	10YR 4/2	100					Loamy/Clayey	
								_
								_
								_
1Typo: C=C	oncentration, D=Depl	otion PN	4-Poducod Matrix N	 19-Mas	kod Sand		² Location: DL=	Pore Lining, M=Matrix.
Hydric Soil	•	etion, ixiv	1-Iteduced Matrix, I	/IO-IVIAS	Keu Gand	Oranis.		Problematic Hydric Soils ³ :
Histosol			Polyvalue Belo	w Surfa	ce (S8) (I	DD D		(A10) (LRR K, L, MLRA 149B)
	pipedon (A2)		MLRA 149B		ce (30) (I	LIXIX IX,		ie Redox (A16) (LRR K, L, R)
Black Hi			Thin Dark Surf	•	(I PP P	MI DA 1		Peat or Peat (S3) (LRR K, L, R)
	n Sulfide (A4)		High Chroma S		-		· —	selow Surface (S8) (LRR K, L)
	I Layers (A5)		Loamy Mucky					Surface (S9) (LRR K, L)
	l Layers (A3) I Below Dark Surface	(//11)	Loamy Gleyed			₹ (₹, ∟)		nese Masses (F12) (LRR K, L, R)
	rk Surface (A12)	: (A11)			F2)			
	lucky Mineral (S1)		Depleted Matri Redox Dark St		.e)			loodplain Soils (F19) (MLRA 149B)
	ileyed Matrix (S4)		Depleted Dark		-			lic (TA6) (MLRA 144A, 145, 149B) Material (F21)
	edox (S5)		Redox Depres					w Dark Surface (F22)
	Matrix (S6)		Marl (F10) (LR		0)			ain in Remarks)
	face (S7)		IVIAIT (I*10) (LK	K K, L)			Other (Expi	alli ili Nelliaiks)
Dark Sui	race (S7)							
³ Indicators of	f hydronhytic yegetati	ion and w	etland hydrology mi	ist he nr	esent ur	nlace dieti	urbed or problematic.	
	_ayer (if observed):	on and w	retiand flydrology me	ast be pi	CSCIII, UI	iicaa diati	arbed or problematic.	
Type:	-ayor (oboo. voa).							
•								,
Depth (ir	ncnes):						Hydric Soil Present?	Yes No <u>X</u>
Remarks:								
								Field Indicators of Hydric Soils,
	2015 Errata. (http://w oit possible due to sol					S/nrcs14	2p2_051293.docx)	
No son test p	iit possible due to soi	เน รนมรแจ	ate of copple and die	euge IIIa	ileriai.			

U.S. Army Corps of Engineers

WETLAND DETERMINATION DATA SHEET – Northcentral and Northeast Region

See ERDC/EL TR-12-1; the proponent agency is CECW-CO-R

OMB Control #: 0710-0024, Exp: 11/30/2024 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)

Project/Site: CHPE - Package 3	City/Count	ty: Fort Edward / Washington County	Sampling Date: 07-19-22			
Applicant/Owner: TDI		State: NY	Sampling Point: Wet_P3-A-2			
Investigator(s): C. Scrivner & J. Greaves	S	ection, Township, Range:				
Landform (hillside, terrace, etc.): Depression		ave, convex, none): Concave	Slope %: 2			
Subregion (LRR or MLRA): LRR R Lat: 43.		Long: -73.58155	Datum: WGS 84			
Soil Map Unit Name: Claverack loamy fine sand, 0 to 2 per		NWI classification:	PFO1			
Are climatic / hydrologic conditions on the site typical for this	· · · · · · · · · · · · · · · · · · ·		explain in Remarks.)			
• •	•					
Are Vegetation, Soil, or Hydrologysig		Are "Normal Circumstances" prese				
Are Vegetation, Soil, or Hydrologynat		(If needed, explain any answers in	,			
SUMMARY OF FINDINGS – Attach site map s	howing sampling po	oint locations, transects, in	nportant features, etc.			
Hydrophytic Vegetation Present? Yes X N	lo Is the Sa	ampled Area				
Hydric Soil Present? Yes X N	lo within a	Wetland? Yes X	No			
Wetland Hydrology Present? Yes X N	lo If yes, op	otional Wetland Site ID: Near flag	P3-A-2			
Silver maple-ash swamp.						
HYDROLOGY						
Wetland Hydrology Indicators:		Secondary Indicators (m	ninimum of two required)			
Primary Indicators (minimum of one is required; check all the	at apply)	Surface Soil Cracks	s (B6)			
Surface Water (A1) X Water-St	ained Leaves (B9)	X Drainage Patterns (B10)			
 -	Fauna (B13)		Moss Trim Lines (B16)			
	osits (B15)	Dry-Season Water				
Water Marks (B1) Hydroger	n Sulfide Odor (C1)	Crayfish Burrows (C	28)			
	Rhizospheres on Living Ro		n Aerial Imagery (C9)			
	e of Reduced Iron (C4)	n (C4) Stunted or Stressed Plants (D1)				
<u> </u>	on Reduction in Tilled Soils	· · · · · · · · · · · · · · · · · · ·				
<u> </u>	ck Surface (C7)	Shallow Aquitard (D3)				
<u> </u>	xplain in Remarks)	Microtopographic R				
Sparsely Vegetated Concave Surface (B8)		X FAC-Neutral Test (I	D5)			
Field Observations:						
	Depth (inches):					
	Depth (inches):		V V Na			
	Depth (inches):	Wetland Hydrology Present?	Yes <u>X</u> No			
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, as	arial photoe previous inens	sotional if available:				
Describe Necorded Data (stream gauge, monitoring won, ac	mai priotos, provious mopo	ections), ii availabic.				
Devente						
Remarks:						

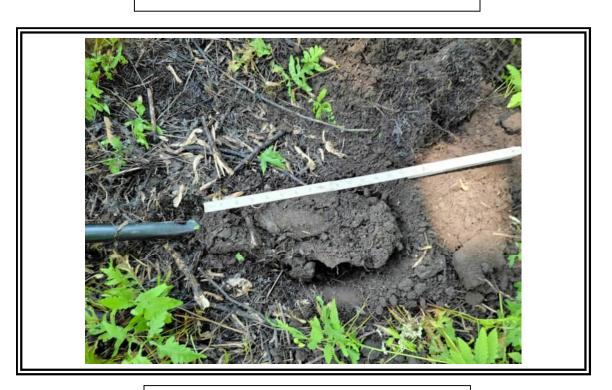
EGETATION – Use scientific names of pla	ants.			Sampling Point: Wet_P3-A-				
Tree Stratum (Plot size:)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:				
1. Acer saccharinum	75	Yes	FACW	- Number of Dominant Species				
2. Fraxinus pennsylvanica	10	No	FACW	That Are OBL, FACW, or FAC: 5 (A				
3. Ulmus americana	5	No	FACW	Total Number of Dominant				
4. Acer rubrum	2	No	FAC	Species Across All Strata: 6 (E				
5. Quercus bicolor	2	No	FACW	Percent of Dominant Species				
5.				That Are OBL, FACW, or FAC: 83.3% (A				
7.				Prevalence Index worksheet:				
	94	=Total Cover	(<u> </u>	Total % Cover of: Multiply by:				
Sapling/Shrub Stratum (Plot size: 15')				OBL species $0 x 1 = 0$				
. Fraxinus pennsylvanica	10	Yes	FACW	FACW species 160 x 2 = 320				
2. Acer saccharinum	8	Yes	FACW	FAC species 7 x 3 = 21				
3. Acer rubrum	5	Yes	FAC	FACU species 5 x 4 = 20				
1.	-			UPL species 0 x 5 = 0				
5.				Column Totals: 172 (A) 361				
5.				Prevalence Index = B/A = 2.10				
·	-	<u> </u>		Hydrophytic Vegetation Indicators:				
	23	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation				
Herb Stratum (Plot size: 5')		= Total Cover		X 2 - Dominance Test is >50%				
	40	Vaa		<u> </u>				
1. Onoclea sensibilis	40	Yes	FACW	 X 3 - Prevalence Index is ≤3.0¹ 4 - Morphological Adaptations¹ (Provide supporting 				
2. Impatiens capensis	5	No No	FACW	data in Remarks or on a separate sheet)				
3. Acer saccharinum	5	No	FACW					
1.				Problematic Hydrophytic Vegetation ¹ (Explain)				
5 6.				 Indicators of hydric soil and wetland hydrology must present, unless disturbed or problematic. 				
7.				Definitions of Vegetation Strata:				
3.				Troe Woody plants 3 in /7.5 cm) or more in diam				
9.				Tree – Woody plants 3 in. (7.6 cm) or more in diam at breast height (DBH), regardless of height.				
10.								
11.				Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.				
12.								
	50	=Total Cover		Herb – All herbaceous (non-woody) plants, regardl of size, and woody plants less than 3.28 ft tall.				
Woody Vine Stratum (Plot size: 30')		_						
Celastrus orbiculatus	5	Yes	FACU	Woody vines – All woody vines greater than 3.28 f height.				
			17.00					
3.		· ——		Hydrophytic				
				Vegetation				
4.				Present? Yes X No No				
	5	=Total Cover						

SOIL Sampling Point: Wet_P3-A-2

Profile Descripe Depth	ription: (Describe to Matrix	o the de		ment th x Featur		tor or co	nfirm the absence of	indicators.)	
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks	
0-3	10YR 2/1	100					Loamy/Clayey	with organics	
3-16	10YR 3/1	75	5YR 4/6	5	С	PL	Loamy/Clayey	Prominent redox concentrations	
			7.5YR 4/4	15	С	М		Prominent redox concentrations	
			2.5YR 3/6	5	С	М		Prominent redox concentrations	
¹ Type: C=Co	ncentration D=Deple	etion RM	l=Reduced Matrix, M	S=Mask	ed Sand	Grains	² I ocation: Pl	L=Pore Lining, M=Matrix.	
Hydric Soil Ir		ouon, reiv	-reduced Matrix, IVI	J-IVIASK	ca Garia	Oranis.		or Problematic Hydric Soils ³ :	
Histosol (Dark Surface (S7)				ick (A10) (LRR K, L, MLRA 149B)	
Histic Epi	pedon (A2)		Polyvalue Belo	w Surfac	ce (S8) (I	LRR R,		rairie Redox (A16) (LRR K, L, R)	
Black His	tic (A3)		MLRA 149B))			5 cm Mu	icky Peat or Peat (S3) (LRR K, L, R)	
Hydroger	Sulfide (A4)		Thin Dark Surfa	ace (S9)	(LRR R	, MLRA 1	49B) Polyvalu	e Below Surface (S8) (LRR K, L)	
Stratified	Layers (A5)		High Chroma S	ands (S	11) (LRF	R K, L)	Thin Dar	rk Surface (S9) (LRR K, L)	
Depleted	Below Dark Surface	(A11)	Loamy Mucky I	√lineral (F1) (LRF	R K, L)	Iron-Manganese Masses (F12) (LRR		
Thick Dai	k Surface (A12)		Loamy Gleyed	Matrix (F	F2)		Piedmont Floodplain Soils (F19) (MLRA 1		
	odic (A17)		Depleted Matrix	` '				ent Material (F21) (outside MLRA 145)	
,	A 144A, 145, 149B)		X Redox Dark Su	,	•			allow Dark Surface (F22)	
	ucky Mineral (S1)		Depleted Dark		` '		Other (E	xplain in Remarks)	
	eyed Matrix (S4)		X Redox Depress	•	3)		3, ,,		
Sandy Re	, ,		Marl (F10) (LR		04) (84) E			ors of hydrophytic vegetation and	
Stripped I	Matrix (S6)		Red Parent Ma	terial (F2	21) (MLF	RA 145)		nd hydrology must be present, s disturbed or problematic.	
Restrictive L	ayer (if observed):						umoss	raistanboa of problematic.	
Type:									
Depth (in	ches):						Hydric Soil Presen	nt? Yes X No	
Remarks:									



Wetland P3-A - View facing southwest



Wetland P3-A - Soils

SITE PHOTOGRAPHS

Segment 4 and 5 – Package 3

U.S. Army Corps of Engineers

WETLAND DETERMINATION DATA SHEET – Northcentral and Northeast Region

See ERDC/EL TR-12-1; the proponent agency is CECW-CO-R

OMB Control #: 0710-0024, Exp: 11/30/2024 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)

Project/Site: CHPE - Package 3	City/County:	Fort Edward / Washington County	Sampling Date: 07-19-22
Applicant/Owner: TDI		State: NY	Sampling Point: Upl_P3-A-2
Investigator(s): C. Scrivner & J. Greaves	Sect	tion, Township, Range:	<u> </u>
Landform (hillside, terrace, etc.): Hillslope		e, convex, none): Convex	Slope %: 10
Subregion (LRR or MLRA): LRR R Lat: 43.	•	Long: -73.58143	Datum: WGS 84
Soil Map Unit Name: Claverack loamy fine sand, 0 to 2 per		NWI classification:	NA
Are climatic / hydrologic conditions on the site typical for this t	•		explain in Remarks.)
Are Vegetation, Soil, or Hydrologysig	nificantly disturbed? Ar	re "Normal Circumstances" prese	nt? Yes X No
Are Vegetation, Soil, or Hydrologynat	urally problematic? (If	f needed, explain any answers in l	Remarks.)
SUMMARY OF FINDINGS – Attach site map sh	owing sampling point	locations, transects, imp	oortant features, etc.
Lhidrahidia Vandelias Brassida	la tha Cam	unla d Ausa	
	lo X Is the Sam		No. V
	lo X within a W		No X
, , ,		onal Wetland Site ID:	
Remarks: (Explain alternative procedures here or in a sepa			
Adjacent upland hillslope. Directly adjacent to the CP Rail ba	illast ROW.		
LIVERGLOOV			
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Indicators (m	inimum of two required)
Primary Indicators (minimum of one is required; check all that	at apply)	Surface Soil Cracks	(B6)
Surface Water (A1) Water-St	ained Leaves (B9)	Drainage Patterns (I	310)
High Water Table (A2) Aquatic F	auna (B13)	Moss Trim Lines (B1	16)
Saturation (A3) Marl Dep	osits (B15)	Dry-Season Water T	able (C2)
Water Marks (B1)Hydroger	n Sulfide Odor (C1)	Crayfish Burrows (C	8)
	Rhizospheres on Living Roots	s (C3) Saturation Visible or	Aerial Imagery (C9)
l -	e of Reduced Iron (C4)	Stunted or Stressed	Plants (D1)
Algal Mat or Crust (B4)Recent Ir	on Reduction in Tilled Soils (C	C6) Geomorphic Position	n (D2)
Iron Deposits (B5) Thin Muc	k Surface (C7)	Shallow Aquitard (D	3)
Inundation Visible on Aerial Imagery (B7) Other (Ex	rplain in Remarks)	Microtopographic Re	elief (D4)
Sparsely Vegetated Concave Surface (B8)		FAC-Neutral Test (D	05)
Field Observations:			
Surface Water Present? Yes No _X	Depth (inches):		
	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, ae	rial photos, previous inspection	ons), 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:(A)				
	<u> </u>			Total Number of Dominant				
				Species Across All Strata: 5 (B)				
· <u> </u>				Percent of Dominant Species				
				That Are OBL, FACW, or FAC: 20.0% (A/B				
				Prevalence Index worksheet:				
		=Total Cover		Total % Cover of: Multiply by:				
apling/Shrub Stratum (Plot size: 15')			OBL species 0 x 1 = 0				
Rhus typhina	15	Yes	UPL	FACW species 60 x 2 = 120				
Acer platanoides	5	Yes	UPL	FAC species 0 x 3 = 0				
·				FACU species 30 x 4 = 120				
				UPL species 25 x 5 = 125				
				Column Totals: 115 (A) 365 (B				
				Prevalence Index = B/A = 3.17				
				Hydrophytic Vegetation Indicators:				
	20	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation				
erb Stratum (Plot size: 5')				2 - Dominance Test is >50%				
. Impatiens capensis	60	Yes	FACW	3 - Prevalence Index is ≤3.0 ¹				
. Parthenocissus quinquefolia	15	No	FACU	4 - Morphological Adaptations ¹ (Provide supporting				
. Acer platanoides	5	No	UPL	data in Remarks or on a separate sheet)				
. Phytolacca americana	5	No	FACU	Problematic Hydrophytic Vegetation ¹ (Explain)				
				 Indicators of hydric soil and wetland hydrology must present, unless disturbed or problematic. 				
				Definitions of Vegetation Strata:				
				Torre Westerlands (7.0 cm) as a consist franct				
				Tree – Woody plants 3 in. (7.6 cm) or more in diamet at breast height (DBH), regardless of height.				
0.				Continue to the state of the Continue of the C				
1.				Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.				
2.								
	85	=Total Cover		Herb – All herbaceous (non-woody) plants, regardles of size, and woody plants less than 3.28 ft tall.				
Voody Vine Stratum (Plot size: 30')							
. Celastrus orbiculatus	5	Yes	FACU	Woody vines – All woody vines greater than 3.28 ft in height.				
. Vitis aestivalis	5	Yes	FACU	- 1 3				
vine doctivane				Hydrophytic				
				Vegetation Present? Yes No X				
	10	=Total Cover		165				
	10	= rotal Cover						

SOIL Sampling Point: Upl_P3-A-2

Profile Desc Depth	ription: (Describe to Matrix	the dept		ment th c Featur		or or co	nfirm the absence	of indicat	tors.)	
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture		Rema	rks
0-16	10YR 2/1	100					Sandy		Filled with roo	cks/gravel
										one, g. en er
										,
								_		
¹ Type: C=Co	oncentration, D=Deplet	ion, RM=I	Reduced Matrix, MS	S=Mask	ed Sand	Grains.	² Location	: PL=Pore	Lining, M=Ma	trix.
Hydric Soil I	ndicators:						Indicator	s for Prob	lematic Hydri	ic Soils³:
Histosol	(A1)	_	Dark Surface (S	S7)			2 cm	Muck (A1	0) (LRR K, L, I	MLRA 149B)
	ipedon (A2)	_	Polyvalue Belov		ce (S8) (L	.RR R,			edox (A16) (LF	
Black His	` '		MLRA 149B)							(LRR K, L, R)
· ·	n Sulfide (A4)	_	Thin Dark Surfa	, ,			· —		v Surface (S8)	
	Layers (A5)		High Chroma S						ace (S9) (LRR	
	l Below Dark Surface (Irk Surface (A12)		Loamy Mucky N Loamy Gleyed			K K, L)		-		2) (LRR K, L, R) 9) (MLRA 149B)
	podic (A17)	-	Depleted Matrix	•	2)					itside MLRA 145)
	A 144A, 145, 149B)	_	Redox Dark Su		6)				ark Surface (F	
	lucky Mineral (S1)	_	Depleted Dark						n Remarks)	,
	leyed Matrix (S4)	_	Redox Depress					` '	,	
Sandy R	edox (S5)	_	Marl (F10) (LRI	R K, L)			³ Indio	ators of hy	drophytic vege	etation and
Stripped	Matrix (S6)	_	Red Parent Ma	terial (F2	21) (MLR	A 145)	we	tland hydro	ology must be	present,
							un	ess disturl	oed or problem	natic.
	_ayer (if observed):									
Type:										
Depth (ir	nches):						Hydric Soil Pre	sent?	Yes	NoX
Remarks:										



Upland P3-A - View facing north



Upland P3-A - Soils

SITE PHOTOGRAPHS

U.S. Army Corps of Engineers

WETLAND DETERMINATION DATA SHEET – Northcentral and Northeast Region

See ERDC/EL TR-12-1; the proponent agency is CECW-CO-R

OMB Control #: 0710-0024, Exp: 11/30/2024 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)

Project/Site: CHPE		City/County: Fort Ed	lward/Washington	Sampling Date: 10/11/22			
Applicant/Owner: TDI			State: NY	Sampling Point: P3- D2-2 wet			
Investigator(s): N. Frazer & J. Greaves		Section, To	wnship, Range:				
Landform (hillside, terrace, etc.): depression	n Local re	elief (concave, conve	ex, none): concave	Slope %: 0			
Subregion (LRR or MLRA): LRR R	Lat: 43-15-45.66N	•	73-35-23.70W	 Datum: WGS84			
Soil Map Unit Name: Limerick-Saco complex			NWI classification:	PFO			
Are climatic / hydrologic conditions on the site		Yes x	<u> </u>	explain in Remarks.)			
Are Vegetation , Soil , or Hydro			(ii fio, nal Circumstances" prese	,			
			·				
Are Vegetation, Soil, or Hydro SUMMARY OF FINDINGS – Attach			d, explain any answers in tions, transects, im	,			
Hydrophytic Vegetation Present?	Yes X No	Is the Sampled A					
Hydric Soil Present?	Yes X No No	within a Wetland		No			
Wetland Hydrology Present?	Yes X No	If yes, optional We	etiand Site ID				
Remarks: (Explain alternative procedures he Floodplain forest.	ere or in a separate report.)						
rioodpiain iorest.							
HYDROLOGY							
Wetland Hydrology Indicators:			Secondary Indicators (n	ninimum of two required)			
Primary Indicators (minimum of one is require	ed; check all that apply)		Surface Soil Cracks	s (B6)			
Surface Water (A1)	Water-Stained Leaves (B	9)	Drainage Patterns ((B10)			
High Water Table (A2)	Aquatic Fauna (B13)		Moss Trim Lines (B	·			
Saturation (A3)	Marl Deposits (B15)		Dry-Season Water	· ·			
Water Marks (B1)	Hydrogen Sulfide Odor (C	· ·	Crayfish Burrows (C				
Sediment Deposits (B2)	Oxidized Rhizospheres or			n Aerial Imagery (C9)			
Drift Deposits (B3)	Presence of Reduced Iron	` '	Stunted or Stressed				
Algal Mat or Crust (B4)	Recent Iron Reduction in Thin Muck Surface (C7)	Tilled Solls (Cb)	· · · · · · · · · · · · · · · · · · ·				
Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7		(c)	Shallow Aquitard (D Microtopographic R	,			
Sparsely Vegetated Concave Surface (B	· —	.5)	X FAC-Neutral Test (I	` '			
Field Observations:			<u> </u>				
Surface Water Present? Yes	No x Depth (inches):						
Water Table Present? Yes	No x Depth (inches):						
Saturation Present? Yes	No x Depth (inches):		d Hydrology Present?	Yes X No			
(includes capillary fringe)	<u> </u>						
Describe Recorded Data (stream gauge, mor	nitoring well, aerial photos, prev	vious inspections), if	available:				
Remarks:							
Adjacent to the Hudson River.							

<u>Tree Stratum</u> (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
Acer saccharinum	50	Yes	FACW	Dominance Test worksheet.
	40	Yes	FACW	Number of Dominant Species That Are OBL, FACW, or FAC: 4 (A)
2. Fraxinus pennsylvanica	40	165	FACV	That Are OBL, FACW, or FAC:4 (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: 80.0% (A/B)
7				Prevalence Index worksheet:
	90	=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15')				OBL species 0 x1 = 0
1. Fraxinus pennsylvanica	10	Yes	<u>FACW</u>	FACW species 115 x 2 = 230
2. Berberis thunbergii	5	Yes	FACU	FAC species65 x 3 =195
3				FACU species 5 x 4 = 20
4				UPL species0 x 5 =0
5				Column Totals: 185 (A) 445 (B)
6				Prevalence Index = B/A =2.41
7				Hydrophytic Vegetation Indicators:
	15	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size:5')				X 2 - Dominance Test is >50%
Matteuccia struthiopteris	45	Yes	FAC	X 3 - Prevalence Index is ≤3.0 ¹
2. Onoclea sensibilis	15	No	FACW	4 - Morphological Adaptations (Provide supporting
3. Persicaria virginiana	5	No	FAC	data in Remarks or on a separate sheet)
4. Menispermum canadense	15	No	FAC	Problematic Hydrophytic Vegetation ¹ (Explain)
5.				¹ Indicators of hydric soil and wetland hydrology must
6.				be present, unless disturbed or problematic.
7.				Definitions of Vegetation Strata:
8				Tree – Woody plants 3 in. (7.6 cm) or more in
9.				diameter at breast height (DBH), regardless of height.
10				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
	80	=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 Present? Yes X No
		=Total Cover		
Demonstrate (Include whate women are home as an account	-414 \	•		
Remarks: (Include photo numbers here or on a separ	ate sneet.)			

Sampling Point: P3- D-2 wet

SOIL Sampling Point P3- D-2 wet

Depth	Matrix			x Featur			onfirm the absence o	
(inches)	Color (moist)	%	Color (moist)	%_	Type ¹	Loc ²	Texture	Remarks
0-7	10YR 4/2	93	10YR 3/1	5	<u> </u>	M	Loamy/Clayey	Faint redox concentrations
			10YR 5/6	2	C	M		Prominent redox concentrations
7-16	10YR 4/1	95	10YR 3/4	5	<u>C</u>	M	Sandy	Distinct redox concentrations
-								
	ncentration, D=Deple	etion, RM	=Reduced Matrix, N	/IS=Mas	ked Sand	d Grains.		L=Pore Lining, M=Matrix.
Hydric Soil In Histosol (Dark Surface ((97)				or Problematic Hydric Soils ³ : ack (A10) (LRR K, L, MLRA 149B)
	ipedon (A2)		Polyvalue Belo		ce (S8) (LRR R.		rairie Redox (A16) (LRR K, L, R)
Black His			MLRA 149B		00 (00) (icky Peat or Peat (S3) (LRR K, L, R)
	n Sulfide (A4)		Thin Dark Surf	,	(LRR R	, MLRA 1		e Below Surface (S8) (LRR K, L)
Stratified	Layers (A5)		High Chroma S	Sands (S	S11) (LRI	R K, L)	Thin Dar	rk Surface (S9) (LRR K, L)
Depleted	Below Dark Surface	(A11)	Loamy Mucky	Mineral	(F1) (LR	R K, L)	Iron-Mar	nganese Masses (F12) (LRR K, L, R)
	rk Surface (A12)		Loamy Gleyed	Matrix (F2)		Piedmor	nt Floodplain Soils (F19) (MLRA 149B)
Macia Sr	odic (A17)		X Depleted Matri	ix (F3)				ent Material (F21) (outside MLRA 145)
(MLR	A 144A, 145, 149B)		Redox Dark Su		-			allow Dark Surface (F22)
(MLR/	A 144A, 145, 149B) ucky Mineral (S1)		Depleted Dark	Surface	(F7)			allow Dark Surface (F22) xplain in Remarks)
Sandy Mo	A 144A, 145, 149B) ucky Mineral (S1) leyed Matrix (S4)		Depleted Dark Redox Depres	Surface sions (F	(F7)		Other (E	xplain in Remarks)
(MLR/ Sandy Mi Sandy Gl Sandy Re	A 144A, 145, 149B) ucky Mineral (S1) leyed Matrix (S4) edox (S5)		Depleted Dark Redox Depress Marl (F10) (LR	Surface sions (Fa	(F7) 8)	24.445\	Other (E	explain in Remarks)
Sandy Mi Sandy Gl Sandy Re	A 144A, 145, 149B) ucky Mineral (S1) leyed Matrix (S4)		Depleted Dark Redox Depres	Surface sions (Fa	(F7) 8)	RA 145)	Other (E 3Indicate wetlar	explain in Remarks) ors of hydrophytic vegetation and and hydrology must be present,
(MLR/ Sandy Mi Sandy Gi Sandy Re Stripped	A 144A, 145, 149B) ucky Mineral (S1) leyed Matrix (S4) edox (S5) Matrix (S6)		Depleted Dark Redox Depress Marl (F10) (LR	Surface sions (Fa	(F7) 8)	RA 145)	Other (E 3Indicate wetlar	explain in Remarks)
(MLR/ Sandy Mi Sandy Gi Sandy Re Stripped	A 144A, 145, 149B) ucky Mineral (S1) leyed Matrix (S4) edox (S5)	e	Depleted Dark Redox Depress Marl (F10) (LR	Surface sions (Fa	(F7) 8)	RA 145)	Other (E 3Indicate wetlar	explain in Remarks) ors of hydrophytic vegetation and and hydrology must be present,
Sandy Mi Sandy Gi Sandy Re Stripped	A 144A, 145, 149B) ucky Mineral (S1) leyed Matrix (S4) edox (S5) Matrix (S6) ayer (if observed):	е	Depleted Dark Redox Depress Marl (F10) (LR	Surface sions (Fa	(F7) 8)	RA 145)	Other (E 3Indicate wetlar	explain in Remarks) ors of hydrophytic vegetation and hydrology must be present, a disturbed or problematic.
Sandy Mi Sandy Gl Sandy Re Stripped Restrictive L Type:	A 144A, 145, 149B) ucky Mineral (S1) leyed Matrix (S4) edox (S5) Matrix (S6) ayer (if observed):	е	Depleted Dark Redox Depress Marl (F10) (LR	Surface sions (Fa	(F7) 8)	RA 145)	Other (E ³ Indicate wetlar unless	explain in Remarks) ors of hydrophytic vegetation and hydrology must be present, a disturbed or problematic.
Sandy Mi Sandy Gi Sandy Re Stripped Restrictive L Type: Depth (in	A 144A, 145, 149B) ucky Mineral (S1) leyed Matrix (S4) edox (S5) Matrix (S6) ayer (if observed):	е	Depleted Dark Redox Depress Marl (F10) (LR	Surface sions (Fa	(F7) 8)	RA 145)	Other (E ³ Indicate wetlar unless	explain in Remarks) ors of hydrophytic vegetation and hydrology must be present, a disturbed or problematic.
Sandy Mi Sandy Gi Sandy Re Stripped Restrictive L Type: Depth (in	A 144A, 145, 149B) ucky Mineral (S1) leyed Matrix (S4) edox (S5) Matrix (S6) ayer (if observed):	е	Depleted Dark Redox Depress Marl (F10) (LR	Surface sions (Fa	(F7) 8)	RA 145)	Other (E ³ Indicate wetlar unless	explain in Remarks) ors of hydrophytic vegetation and hydrology must be present, a disturbed or problematic.
Sandy Mi Sandy Gi Sandy Re Stripped Restrictive L Type: Depth (in	A 144A, 145, 149B) ucky Mineral (S1) leyed Matrix (S4) edox (S5) Matrix (S6) ayer (if observed):	e	Depleted Dark Redox Depress Marl (F10) (LR	Surface sions (Fa	(F7) 8)	RA 145)	Other (E ³ Indicate wetlar unless	explain in Remarks) ors of hydrophytic vegetation and hydrology must be present, a disturbed or problematic.
Sandy Mi Sandy Gi Sandy Re Stripped Restrictive L Type: Depth (in	A 144A, 145, 149B) ucky Mineral (S1) leyed Matrix (S4) edox (S5) Matrix (S6) ayer (if observed):	е	Depleted Dark Redox Depress Marl (F10) (LR	Surface sions (Fa	(F7) 8)	RA 145)	Other (E ³ Indicate wetlar unless	explain in Remarks) ors of hydrophytic vegetation and hydrology must be present, a disturbed or problematic.
Sandy Mi Sandy Gi Sandy Re Stripped Restrictive L Type: Depth (in	A 144A, 145, 149B) ucky Mineral (S1) leyed Matrix (S4) edox (S5) Matrix (S6) ayer (if observed):	е	Depleted Dark Redox Depress Marl (F10) (LR	Surface sions (Fa	(F7) 8)	RA 145)	Other (E ³ Indicate wetlar unless	explain in Remarks) ors of hydrophytic vegetation and hydrology must be present, a disturbed or problematic.
Sandy Mi Sandy Gi Sandy Re Stripped Restrictive L Type: Depth (in	A 144A, 145, 149B) ucky Mineral (S1) leyed Matrix (S4) edox (S5) Matrix (S6) ayer (if observed):	е	Depleted Dark Redox Depress Marl (F10) (LR	Surface sions (Fa	(F7) 8)	RA 145)	Other (E ³ Indicate wetlar unless	explain in Remarks) ors of hydrophytic vegetation and hydrology must be present, a disturbed or problematic.
Sandy Mi Sandy Gi Sandy Re Stripped Restrictive L Type: Depth (in	A 144A, 145, 149B) ucky Mineral (S1) leyed Matrix (S4) edox (S5) Matrix (S6) ayer (if observed):	e	Depleted Dark Redox Depress Marl (F10) (LR	Surface sions (Fa	(F7) 8)	RA 145)	Other (E ³ Indicate wetlar unless	explain in Remarks) ors of hydrophytic vegetation and hydrology must be present, a disturbed or problematic.
Sandy Mi Sandy Gi Sandy Re Stripped Restrictive L Type: Depth (in	A 144A, 145, 149B) ucky Mineral (S1) leyed Matrix (S4) edox (S5) Matrix (S6) ayer (if observed):	е	Depleted Dark Redox Depress Marl (F10) (LR	Surface sions (Fa	(F7) 8)	RA 145)	Other (E ³ Indicate wetlar unless	explain in Remarks) ors of hydrophytic vegetation and hydrology must be present, a disturbed or problematic.
Sandy Mi Sandy Gi Sandy Re Stripped Restrictive L Type: Depth (in	A 144A, 145, 149B) ucky Mineral (S1) leyed Matrix (S4) edox (S5) Matrix (S6) ayer (if observed):	е	Depleted Dark Redox Depress Marl (F10) (LR	Surface sions (Fa	(F7) 8)	RA 145)	Other (E ³ Indicate wetlar unless	explain in Remarks) ors of hydrophytic vegetation and hydrology must be present, a disturbed or problematic.
Sandy Mi Sandy Gi Sandy Re Stripped Restrictive L Type: Depth (in	A 144A, 145, 149B) ucky Mineral (S1) leyed Matrix (S4) edox (S5) Matrix (S6) ayer (if observed):	e	Depleted Dark Redox Depress Marl (F10) (LR	Surface sions (Fa	(F7) 8)	RA 145)	Other (E ³ Indicate wetlar unless	explain in Remarks) ors of hydrophytic vegetation and hydrology must be present, a disturbed or problematic.
Sandy Mi Sandy Gi Sandy Re Stripped Restrictive L Type: Depth (in	A 144A, 145, 149B) ucky Mineral (S1) leyed Matrix (S4) edox (S5) Matrix (S6) ayer (if observed):	e	Depleted Dark Redox Depress Marl (F10) (LR	Surface sions (Fa	(F7) 8)	RA 145)	Other (E ³ Indicate wetlar unless	explain in Remarks) ors of hydrophytic vegetation and hydrology must be present, a disturbed or problematic.
Sandy Mi Sandy Gi Sandy Re Stripped Restrictive L Type: Depth (in	A 144A, 145, 149B) ucky Mineral (S1) leyed Matrix (S4) edox (S5) Matrix (S6) ayer (if observed):	9	Depleted Dark Redox Depress Marl (F10) (LR	Surface sions (Fa	(F7) 8)	RA 145)	Other (E ³ Indicate wetlar unless	explain in Remarks) ors of hydrophytic vegetation and hydrology must be present, a disturbed or problematic.



Wetland P3-D2-2- View facing southeast



Wetland P3-D2-2- Soils

SITE PHOTOGRAPHS

U.S. Army Corps of Engineers

WETLAND DETERMINATION DATA SHEET – Northcentral and Northeast Region

See ERDC/EL TR-12-1; the proponent agency is CECW-CO-R

OMB Control #: 0710-0024, Exp: 11/30/2024 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)

Project/Site: CHPE		City/County: Fort Ed	ward/Washington	Sampling Date: 10/11/22		
Applicant/Owner: TDI			State: NY	Sampling Point: P3-D2-2 wet		
Investigator(s): N. Frazer & J. Greaves		Section, To	wnship, Range:			
Landform (hillside, terrace, etc.): hillslope	Local re	——— elief (concave, conve	ex, none): none	Slope %: 2		
Subregion (LRR or MLRA): LRR R	Lat: 43-15-45.16N	•	73-35-24.33W	 Datum: WGS84		
Soil Map Unit Name: Limerick-Saco complex		5	NWI classification:	n/a		
Are climatic / hydrologic conditions on the site		Yes x		explain in Remarks.)		
			`	,		
Are Vegetation, Soil, or Hydrol			nal Circumstances" prese			
Are Vegetation, Soil, or Hydrol	·		d, explain any answers in	·		
SUMMARY OF FINDINGS – Attach	site map showing samp	pling point loca	tions, transects, im	nportant features, etc.		
Hydrophytic Vegetation Present?	Yes X No	Is the Sampled A	rea			
Hydric Soil Present?	Yes No X	within a Wetland	? Yes	No X		
Wetland Hydrology Present?	Yes No X	If yes, optional We	etland Site ID:			
Remarks: (Explain alternative procedures he	ere or in a separate report.)					
Forested upland.						
HYDROLOGY						
Wetland Hydrology Indicators:				ninimum of two required)		
Primary Indicators (minimum of one is require	ed; check all that apply) Water-Stained Leaves (B		Surface Soil Cracks			
Surface Water (A1)						
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	•	Crayfish Burrows (C8)			
Sediment Deposits (B2)	Oxidized Rhizospheres or					
Drift Deposits (B3)	Presence of Reduced Iron Recent Iron Reduction in	` '	· · · · · · · · · · · · · · · · · · ·			
Algal Mat or Crust (B4) Iron Deposits (B5)	Thin Muck Surface (C7)	Tilleu Solis (Co)	lled Soils (C6) Geomorphic Position (D2) Shallow Aquitard (D3)			
Inundation Visible on Aerial Imagery (B7)		re)	Microtopographic R	·		
Sparsely Vegetated Concave Surface (B	· 	.3)	FAC-Neutral Test (I			
Field Observations:	<u> </u>					
Surface Water Present? Yes	No x Depth (inches):					
Water Table Present? Yes	No x Depth (inches):					
Saturation Present? Yes	No x Depth (inches):		d Hydrology Present?	Yes No _ X		
(includes capillary fringe)	<u></u> - , , _		4,			
Describe Recorded Data (stream gauge, mor	nitoring well, aerial photos, prev	vious inspections), if	available:			
Remarks:						

ree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:		
		· 		Dominance rest worksheet.		
. Acer saccharum	90	Yes	<u>FACU</u>	Number of Dominant Species		
·				That Are OBL, FACW, or FAC:3 (A)		
·				Total Number of Dominant		
·				Species Across All Strata: 5 (B)		
·				Percent of Dominant Species		
·	-	·		That Are OBL, FACW, or FAC: 60.0% (A/B)		
·				Prevalence Index worksheet:		
	90	=Total Cover		Total % Cover of: Multiply by:		
apling/Shrub Stratum (Plot size:15')				OBL species0 x1 =0		
Carpinus caroliniana	25	Yes	FAC_	FACW species 0 x 2 = 0		
·				FAC species 37 x 3 =111		
·		·		FACU species110 x 4 =440		
·				UPL species0 x 5 =0		
·				Column Totals: 147 (A) 551 (B)		
				Prevalence Index = B/A = 3.75		
				Hydrophytic Vegetation Indicators:		
	25	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation		
lerb Stratum (Plot size:5')				X 2 - Dominance Test is >50%		
. Adiantum pedatum	15	Yes	FACU	3 - Prevalence Index is ≤3.0 ¹		
. Parthenocissus quinquefolia	2	No	FACU	4 - Morphological Adaptations ¹ (Provide supporting		
. Toxicodendron radicans	2	No	FAC	data in Remarks or on a separate sheet)		
. Carpinus caroliniana	5	Yes	FAC	Problematic Hydrophytic Vegetation ¹ (Explain)		
. Acer saccharum	3	No	FACU	¹ Indicators of hydric soil and wetland hydrology must		
. Menispermum canadense	5	Yes	FAC	be present, unless disturbed or problematic.		
		· <u></u>		Definitions of Vegetation Strata:		
				Tana Manda danta 2 in 77 Cama) an mana in		
				Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.		
0.						
1.				Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.		
2.						
	32	=Total Cover		Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.		
Voody Vine Stratum (Plot size: 30')		- Total Gover				
				Woody vines – All woody vines greater than 3.28 ft in		
·				height.		
·				Hydrophytic		
·	-	·		Vegetation		
·				Present?		
		=Total Cover				

SOIL Sampling Point P3-D-2 wet

Profile Desc Depth	cription: (Describe to Matrix	o the de		cument th ox Featur		ator or co	onfirm the absence of inc	dicators.)	
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remark	(S
0-11	10YR 4/1	100	· · · · · · · · · · · · · · · · · · ·				Loamy/Clayey		
11-16	10YR 4/3	70	10YR 5/4	20	С	М	Loamy/Clayey	Faint redox cond	centrations
			10YR 3/1	10	С	М		Distinct redox con	ncentrations
									_
	-								
¹Type: C=Co	oncentration, D=Deple	etion RM	=Reduced Matrix	. —— MS=Mas	ked Sand	d Grains	² l ocation: PL =F	Pore Lining, M=Mati	rix
Hydric Soil		ouon, rav	T TOURS WILLIAM,	WIC WIGO	nou our	a Oramo.		roblematic Hydric	•
Histosol			Dark Surface	(S7)				(A10) (LRR K, L, M	
Histic Ep	pipedon (A2)		Polyvalue Bel	ow Surfa	ce (S8) (LRR R,	Coast Prairie	e Redox (A16) (LR	R K, L, R)
Black Hi	stic (A3)		MLRA 1498	3)			5 cm Mucky	Peat or Peat (S3)	(LRR K, L, R)
	n Sulfide (A4)		Thin Dark Sur					elow Surface (S8) (•
	Layers (A5)		High Chroma					urface (S9) (LRR K	•
	Below Dark Surface	(A11)	Loamy Mucky			R K, L)		nese Masses (F12)	
	ark Surface (A12)		Loamy Gleyed		F2)			oodplain Soils (F19	
	podic (A17) A 144A, 145, 149B)		Depleted Mate		- 6)			Material (F21) (out w Dark Surface (F2	
	lucky Mineral (S1)		Depleted Dark	-	-			ain in Remarks)	,
	Sleyed Matrix (S4)		Redox Depres					,	
	ledox (S5)		Marl (F10) (Li		,		³ Indicators o	of hydrophytic vege	tation and
Stripped	Matrix (S6)		Red Parent M	laterial (F	21) (ML I	RA 145)	wetland h	ydrology must be p	resent,
							unless dis	turbed or problema	atic.
	Layer (if observed):								
Type:	none	9							
Depth (ir	nches):						Hydric Soil Present?	Yes	No X
Remarks:									



Upland P3-D2-2- View facing east



Upland P3-D2-2- Soils

SITE PHOTOGRAPHS

WETLAND DETERMINATION DATA SHEET – Northcentral and Northeast Region

See ERDC/EL TR-12-1; the proponent agency is CECW-CO-R

Project/Site: CHPE	City/County: Fort Edward/Washington	Sampling Date: 10/11/22
Applicant/Owner: TDI	State: NY	Sampling Point: P3-C2-19 wet
Investigator(s): N. Frazer & J. Greaves	Section, Township, Range:	
Landform (hillside, terrace, etc.): hillslope Local	cal relief (concave, convex, none): none	Slope %: 0
Subregion (LRR or MLRA): LRR R Lat: 43-15-38.59N	Long: 73-35-29.98W	Datum: WGS84
Soil Map Unit Name: Hudson silt loam (HuB)	NWI classification:	PEM
Are climatic / hydrologic conditions on the site typical for this time of year	r? Yes x No (If no, e	explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly dist		,
Are Vegetation , Soil , or Hydrology naturally proble		
SUMMARY OF FINDINGS – Attach site map showing sa		•
Hydrophytic Vegetation Present? Yes X No	Is the Sampled Area within a Wetland? If yes, optional Wetland Site ID:	No
Remarks: (Explain alternative procedures here or in a separate report.)		
Shallow emergent marsh.		
HYDROLOGY		
Wetland Hydrology Indicators:	Secondary Indicators (m	· · · · ·
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks	
X Surface Water (A1) X Water-Stained Leaves X High Water Table (A2) Aquatic Fauna (B13)	<u>—</u>	
X High Water Table (A2) Aquatic Fauna (B13) X Saturation (A3) Marl Deposits (B15)	Dry-Season Water T	·
Water Marks (B1) Hydrogen Sulfide Odd		
		n Aerial Imagery (C9)
Drift Deposits (B3) Presence of Reduced	· / <u>—</u>	= : : :
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		•
Sparsely Vegetated Concave Surface (B8)	X FAC-Neutral Test (D	
Field Observations:		
Surface Water Present? Yes x No Depth (inches	es): 3	
Water Table Present? Yes x No Depth (inches		
Saturation Present? Yes x No Depth (inches		Yes X No
(includes capillary fringe)		
Describe Recorded Data (stream gauge, monitoring well, aerial photos,	previous inspections), if available:	
Remarks:		
Nonano.		

<u>Tree Stratum</u> (Plot size:30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
 Populus tremuloides Populus tremuloides 	5	Yes	FACU	Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)
2				That Are OBL, I ACW, OF I AC.
4.				Total Number of Dominant Species Across All Strata: 4 (B)
5.				Percent of Dominant Species
6.				That Are OBL, FACW, or FAC:(A/B)
7				Prevalence Index worksheet:
	5	=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size:)				OBL species60 x 1 =60
1. Salix bebbiana	25	Yes	FACW	FACW species 34 x 2 = 68
2				FAC species0 x 3 =0
3				FACU species 5 x 4 = 20
4.				UPL species0 x 5 =0
5.				Column Totals: 99 (A) 148 (B)
6.				Prevalence Index = B/A = 1.49
7.				Hydrophytic Vegetation Indicators:
	25	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5')		-		2 - Dominance Test is >50%
1. Lythrum salicaria	45	Yes	OBL	X 3 - Prevalence Index is ≤3.0 ¹
Sphagnum species	85	Yes		4 - Morphological Adaptations ¹ (Provide supporting
3. Phragmites australis	2	No	FACW	data in Remarks or on a separate sheet)
Typha angustifolia	15	No	OBL	Problematic Hydrophytic Vegetation ¹ (Explain)
5. Salix bebbiana	5	No	FACW	
6. Eupatorium perfoliatum	2	No	FACW	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
7.			TACW	Definitions of Vegetation Strata:
8.				Deminions of Vegetation Strata.
		· ——		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
	154	=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: P3-C-19 wet

SOIL Sampling Point P3-C-19 wet

		o the de				tor or co	onfirm the absence of i	indicators.)
Depth	Matrix			x Featur		. 2	- .	
(inches)	Color (moist)		Color (moist)		Type ¹	Loc ²	Texture	Remarks
0-3	10YR 2/2	100					Loamy/Clayey	
3-16	10YR 4/1	100					Sandy	with gravel
								_
¹ Type: C=Co	ncentration, D=Deple	etion RM	======================================	 IS=Masl	ed Sand	Grains	2l ocation: PI:	=Pore Lining, M=Matrix.
Hydric Soil II		, , , , , , , , , , , , , , , , , , ,						Problematic Hydric Soils ³ :
Histosol (Dark Surface (S7)				k (A10) (LRR K, L, MLRA 149B)
Histic Epi	ipedon (A2)		Polyvalue Belo	w Surfa	ce (S8) (I	_RR R,	Coast Pra	irie Redox (A16) (LRR K, L, R)
Black His	stic (A3)		MLRA 149B)			5 cm Muc	ky Peat or Peat (S3) (LRR K, L, R)
	n Sulfide (A4)		Thin Dark Surfa		-			Below Surface (S8) (LRR K, L)
	Layers (A5)		High Chroma S					Surface (S9) (LRR K, L)
	Below Dark Surface	(A11)	Loamy Mucky			R K, L)		anese Masses (F12) (LRR K, L, R)
	rk Surface (A12)		Loamy Gleyed		F2)			Floodplain Soils (F19) (MLRA 149B)
	odic (A17)		Depleted Matri		·6)			nt Material (F21) (outside MLRA 145) low Dark Surface (F22)
	A 144A, 145, 149B) ucky Mineral (S1)		Redox Dark Su Depleted Dark		-			plain in Remarks)
_	leyed Matrix (S4)		Redox Depress				_X_Other (EX	Sam in remarks)
Sandy Re			Marl (F10) (LR		-,		³ Indicators	s of hydrophytic vegetation and
	Matrix (S6)		Red Parent Ma		21) (MLF	RA 145)		hydrology must be present,
			_			_	unless o	disturbed or problematic.
Restrictive L	ayer (if observed):							
Type: _	none	9						
Depth (in	ches):						Hydric Soil Present	? Yes <u>X</u> No
Remarks:								
This wetland	is at the toe of slope,	is inund	ated and contains d	ominant	s that are	OBL and	d FACW. Therefore, soi	ls are not required.



Wetland P3-C2-19- View facing southwest



Wetland P3-C2-19- Soils

SITE PHOTOGRAPHS

WETLAND DETERMINATION DATA SHEET – Northcentral and Northeast Region

See ERDC/EL TR-12-1; the proponent agency is CECW-CO-R

Project/Site: CHPE		City/County: Fort Ed	lward/Washington	Sampling Date: 10/11/22
Applicant/Owner: TDI			State: NY	Sampling Point: P3-C2-19 upl
Investigator(s): N. Frazer & J. Greaves		Section, To	wnship, Range:	
Landform (hillside, terrace, etc.): flat	Local re	elief (concave, conve	ex, none): none	Slope %: 0
Subregion (LRR or MLRA): LRR R	Lat: 43-15-38.78N	•	73-35-30.28W	 Datum: WGS84
Soil Map Unit Name: Hudson silt loam (HuB)			NWI classification:	
Are climatic / hydrologic conditions on the site		Yes x		explain in Remarks.)
			 `	,
Are Vegetation, Soil, or Hydrol			mal Circumstances" prese	
Are Vegetation, Soil, or Hydrol	' <u></u>		d, explain any answers in	•
SUMMARY OF FINDINGS – Attach	site map snowing samp	pling point loca	tions, transects, in	iportant features, etc.
Hydrophytic Vegetation Present?	Yes No _X	Is the Sampled A	rea	
Hydric Soil Present?	Yes X No	within a Wetland	? Yes	No X
Wetland Hydrology Present?	Yes No X	If yes, optional We	etland Site ID:	
Remarks: (Explain alternative procedures he	ere or in a separate report.)			
successional old field				
HYDROLOGY				
Wetland Hydrology Indicators:			Secondary Indicators (n	minimum of two required)
Primary Indicators (minimum of one is require	ed; check all that apply)		Surface Soil Cracks	s (B6)
Surface Water (A1)	Water-Stained Leaves (B	39)	Drainage Patterns (
—— High Water Table (A2)	Aquatic Fauna (B13)		Moss Trim Lines (B	·
Saturation (A3)	Marl Deposits (B15)		Dry-Season Water	
Water Marks (B1)	— Hydrogen Sulfide Odor (C	•	Crayfish Burrows (C	
Sediment Deposits (B2)	Oxidized Rhizospheres or	= : :		on Aerial Imagery (C9)
Drift Deposits (B3)	Presence of Reduced Iron	` ,	Stunted or Stressed	
Algal Mat or Crust (B4) Iron Deposits (B5)	Recent Iron Reduction in Thin Muck Surface (C7)	Tilled Solis (Co)	Geomorphic Position	
Inundation Visible on Aerial Imagery (B7)		(e)	Shallow Aquitard (D Microtopographic R	•
Sparsely Vegetated Concave Surface (B.	· — · · · · ·	.5)	FAC-Neutral Test (I	
Field Observations:	<u> </u>			
Surface Water Present? Yes	No x Depth (inches):			
Water Table Present? Yes	No x Depth (inches):			
Saturation Present? Yes	No x Depth (inches):		nd Hydrology Present?	Yes No _ X _
(includes capillary fringe)				
Describe Recorded Data (stream gauge, mor	nitoring well, aerial photos, prev	vious inspections), if	available:	
Remarks:				

Tree Stratum (Plot size:30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. Pinus strobus	5	Yes	FACU	
2.				Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)
3.				
i.				Total Number of Dominant Species Across All Strata: 6 (B)
5.				Develop of Deminant Species
5.				Percent of Dominant Species That Are OBL, FACW, or FAC: 16.7% (A/B
· .				Prevalence Index worksheet:
	5	=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15')		•		OBL species 0 x 1 = 0
. Pinus strobus	25	Yes	FACU	FACW species 5 x 2 = 10
. Cornus racemosa	15	Yes	FAC	FAC species 16 x 3 = 48
Lonicera tatarica	5	No	FACU	FACU species 133 x 4 = 532
. ————————————————————————————————————				UPL species 12 x 5 = 60
i				Column Totals: 166 (A) 650 (B
i.				Prevalence Index = B/A = 3.92
				Hydrophytic Vegetation Indicators:
	45	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
lerb Stratum (Plot size: 5')		•		2 - Dominance Test is >50%
. Daucus carota	2	No	UPL	3 - Prevalence Index is ≤3.0 ¹
Symphyotrichum cordifolium	10	No	UPL	4 - Morphological Adaptations ¹ (Provide supporting
S. Solidago canadensis	25	Yes	FACU	data in Remarks or on a separate sheet)
. Rosa multiflora	5	No	FACU	Problematic Hydrophytic Vegetation ¹ (Explain)
. Pinus strobus	10	No	FACU	
Symphyotrichum novae-angliae	5	No	FACW	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
Lotus corniculatus	50	Yes	FACU	Definitions of Vegetation Strata:
3. Prunella vulgaris	1	No	FAC	
				Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height
0.				
1.				Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
2.				
	108	=Total Cover		Herb – All herbaceous (non-woody) plants, regardles of size, and woody plants less than 3.28 ft tall.
Voody Vine Stratum (Plot size: 30')		•		
. Celastrus orbiculatus	8	Yes	FACU	Woody vines – All woody vines greater than 3.28 ft i height.
L				<u> </u>
3.				Hydrophytic
				Vegetation Present? Yes No X
	8	=Total Cover		
		. 10101 00101		

SOIL Sampling Point P3-C-19 upl

Depth	cription: (Describe to Matrix	tne ae		ı ment tr k Featur		itor or co	ontirm the absence o	it indicators.)	
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remark	(S
0-16	10YR 4/2	95	10YR 3/6	5	С	M	Loamy/Clayey	Prominent redox co	oncentrations
¹ Type: C=Ce	oncentration, D=Deple	—— tion, RM	=Reduced Matrix, M	IS=Mas	ked Sand	Grains.	² Location: P		rix.
Hydric Soil								or Problematic Hydric	
Histosol	(A1)		Dark Surface (37)			2 cm Mu	uck (A10) (LRR K, L, M	ILRA 149B)
Histic Ep	pipedon (A2)		Polyvalue Belo	w Surfa	ce (S8) (LRR R,	Coast P	rairie Redox (A16) (LR	R K, L, R)
Black Hi	stic (A3)		MLRA 149B))			5 cm Mu	ucky Peat or Peat (S3)	(LRR K, L, R)
Hydroge	n Sulfide (A4)		Thin Dark Surfa	ace (S9)	(LRR R	, MLRA 1	l 49B) Polyvalu	ie Below Surface (S8) ((LRR K, L)
Stratified	l Layers (A5)		High Chroma S	ands (S	611) (LRI	R K, L)	Thin Da	rk Surface (S9) (LRR K	(, L)
Depleted	d Below Dark Surface	(A11)	Loamy Mucky I	Mineral ((F1) (LR I	R K, L)	Iron-Mar	nganese Masses (F12)	(LRR K, L, R)
Thick Da	ark Surface (A12)		Loamy Gleyed	Matrix (F2)		—— Piedmor	nt Floodplain Soils (F19	9) (MLRA 149B)
Mesic S	podic (A17)		X Depleted Matrix	к (F3)			Red Par	ent Material (F21) (out	side MLRA 145)
— (MLR	A 144A, 145, 149B)		Redox Dark Su	rface (F	6)		Very Sh	allow Dark Surface (F2	2)
Sandy M	lucky Mineral (S1)		Depleted Dark	Surface	(F7)		Other (E	Explain in Remarks)	
Sandy G	leyed Matrix (S4)		Redox Depress	sions (F	8)				
	ledox (S5)		Marl (F10) (LR	RK,L)			³ Indicato	ors of hydrophytic veget	tation and
	Matrix (S6)		Red Parent Ma		21) (MLF	RA 145)	wetlar	nd hydrology must be p	resent,
Restrictive	Layer (if observed):						di iliooc	s diotarbod or probleme	
Type:	none								
Depth (ii	nches):						Hydric Soil Prese	nt? Yes X	No
Remarks:									



Upland P3-C2-19- View facing northeast



Upland P3-C2-19- Soils

SITE PHOTOGRAPHS

WETLAND DETERMINATION DATA SHEET – Northcentral and Northeast Region

See ERDC/EL TR-12-1; the proponent agency is CECW-CO-R

Project/Site: CHPE	(City/County: Fort Ed	ward/Washington	Sampling Date: 10/11/22
Applicant/Owner: TDI			State: NY	Sampling Point: P3-B2-9 wet
Investigator(s): N. Frazer & J. Greaves		Section, To	——— wnship, Range:	
Landform (hillside, terrace, etc.): depression	n Local re	elief (concave, conve	ex, none): concave	Slope %: 0
Subregion (LRR or MLRA): LRR R	Lat: 43-15-33.95N	•	73-35-31.42W	 Datum: WGS84
Soil Map Unit Name: Hudson silt loam (HuB)			NWI classification:	PSS
Are climatic / hydrologic conditions on the site		Vac v		explain in Remarks.)
		Yes X	, ,	,
Are Vegetation, Soil, or Hydrol			nal Circumstances" prese 	
Are Vegetation, Soil, or Hydrol			d, explain any answers in	•
SUMMARY OF FINDINGS – Attach	site map showing samp	oling point locat	tions, transects, im	portant features, etc.
Hydrophytic Vegetation Present?	Yes X No	Is the Sampled A	rea	
	Yes X No	within a Wetland?	? Yes X	No
Wetland Hydrology Present?	Yes X No	If yes, optional We	tland Site ID:	
Remarks: (Explain alternative procedures he	re or in a separate report.)			
Shrub swamp.				
HYDROLOGY				
			C L Ludiantana (o.	· · · · · · · · · · · · · · · · · · ·
Wetland Hydrology Indicators:				ninimum of two required)
Primary Indicators (minimum of one is require			Surface Soil Cracks	
Surface Water (A1) High Water Table (A2)	X Water-Stained Leaves (B9 Aquatic Fauna (B13)	9)	Drainage Patterns (I	· ·
Saturation (A3)	Marl Deposits (B15)		Dry-Season Water	•
Water Marks (B1)	Hydrogen Sulfide Odor (C	:1)	Crayfish Burrows (C	
Sediment Deposits (B2)	Oxidized Rhizospheres on	•		n Aerial Imagery (C9)
Drift Deposits (B3)	Presence of Reduced Iron		Stunted or Stressed	=
Algal Mat or Crust (B4)	Recent Iron Reduction in	Tilled Soils (C6)	X Geomorphic Positio	
Iron Deposits (B5)	Thin Muck Surface (C7)		Shallow Aquitard (D	3)
Inundation Visible on Aerial Imagery (B7)		s)	X Microtopographic Re	elief (D4)
Sparsely Vegetated Concave Surface (Bi	8)		FAC-Neutral Test (E	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 Wetlan	d Hydrology Present?	YesX No
(includes capillary fringe)	-thering well cariel photos prov	devia inapportions) if	ailahla:	
Describe Recorded Data (stream gauge, mor	illoring well, aerial priolos, previ	Tous irispections), ii	avaliable.	
Remarks:				

	Abaaluta	Dominant	Indicator	
Tree Stratum (Plot size:30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
·				Number of Dominant Species
· <u></u>				That Are OBL, FACW, or FAC:3 (A)
. <u>.</u>				Total Number of Dominant
				Species Across All Strata: 6 (B)
				Percent of Dominant Species That Are OBL, FACW, or FAC: 50.0% (A/I
				Prevalence Index worksheet:
		-Tatal Causan		
apling/Shrub Stratum (Plot size: 15')		=Total Cover		Total % Cover of: Multiply by: OBL species 0 x 1 = 0
Cornus racemosa	45	Yes	FAC	FACW species 55 x 2 = 110
Salix bebbiana	50	Yes	FACW	FAC species 70 x 3 = 210
. Ulmus americana	5	No	FACW	FACU species 7 x 4 = 28
Rhus typhina		No	UPL	UPL species 2 x 5 = 10
				'
·				
				Prevalence Index = B/A = 2.67
				Hydrophytic Vegetation Indicators:
	102	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
erb Stratum (Plot size:5')				2 - Dominance Test is >50%
Cornus racemosa	25	Yes	FAC	X 3 - Prevalence Index is ≤3.0 ¹
Sphagnum species	10	Yes		4 - Morphological Adaptations ¹ (Provide support
·				data in Remarks or on a separate sheet)
·				Problematic Hydrophytic Vegetation ¹ (Explain)
				¹ Indicators of hydric soil and wetland hydrology mus
				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
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, regardle
Voody Vine Stratum (Plot size: 30')	35	=Total Cover		of size, and woody plants less than 3.28 ft tall.
	5	Yes	FACU	Woody vines – All woody vines greater than 3.28 ft height.
	2			neight.
		Yes	<u>FACU</u>	Hydrophytic
				Vegetation
·				Present? Yes X No No
	7	=Total Cover		

SOIL Sampling Point P3-B-9 wet

Depth	Matrix	.o ine ue	•	x Featur		01 00	onfirm the absence o	i maicators.,
(inches)	Color (moist)	%	Color (moist)	%_	Type ¹	Loc ²	Texture	Remarks
0-6	10YR 4/2	80	10YR 4/6	_20_	C	M	Sandy	Prominent redox concentrations
6-16	10YR 4/2	50	10YR 5/8	_50_	<u>C</u>	M	Sandy	Prominent redox concentrations
		<u> </u>		<u> </u>	<u> </u>	<u> </u>		
¹ Type: C=Co	oncentration, D=Depl	etion RM	——————————————————————————————————————	 2SM=2N	 ked Sand		2l ocation: P	PL=Pore Lining, M=Matrix.
Hydric Soil I Histosol Histic Ep Black His Hydroge Stratified Depleted Thick Da Mesic Sp (MLR Sandy M Sandy G X Sandy R Stripped	ndicators: (A1) pipedon (A2) stic (A3) n Sulfide (A4) I Layers (A5) I Below Dark Surface ark Surface (A12) podic (A17) A 144A, 145, 149B) lucky Mineral (S1) leyed Matrix (S4) edox (S5) Matrix (S6) Layer (if observed):	e (A11)	Dark Surface (Polyvalue Belo MLRA 149B Thin Dark Surface (High Chroma S Loamy Mucky Loamy Gleyed Depleted Matri Redox Dark Su Depleted Dark Redox Depress Marl (F10) (LR Red Parent Ma	S7) www Surfa) ace (S9) Sands (S Mineral Matrix (x (F3) urface (F Surfaces sions (F R K, L)	ce (S8) (I) (LRR R S11) (LRI (F1) (LRI (F2) F6) e (F7) 8)	LRR R, , MLRA 1 R K, L) R K, L)	Indicators for 2 cm Mu 2 cm Mu Coast Pr 5 cm Mu Polyvalu Thin Dar Iron-Mar Piedmor Red Par Very Sha Other (E	or Problematic Hydric Soils ³ : Juck (A10) (LRR K, L, MLRA 149B) rairie Redox (A16) (LRR K, L, R) Jucky Peat or Peat (S3) (LRR K, L, R) Jucky Peat or Peat (S8) (LRR K, L) Jucky Peat or Peat (S8) (LRR K, L) Jucky Peat or Peat (S9) (LRR K, L) Jucky Peat or Peat (S9) (LRR K, L, R) Jucky Peat or Peat (S9) (LRR K, L, R) Jucky Peat or Peat (S9) (LRR K, L, R) Jucky Peat or Peat (S9) (LRR K, L) Jucky Peat or Peat (S9) (MLRA 149B) Jucky Peat or Peat (S9) (MLRA 145) Jucky Peat or Peat (S9) (MLRA 149B) Jucky Peat or Peat (S9) (MLRA 149B) Jucky Peat or Peat (S9) (LRR K, L, R) Jucky Peat or Peat (S9) (LRR K, L) Jucky Peat or
Type: _ Depth (ir	non nches):	e					Hydric Soil Presei	nt? Yes <u>X</u> No
Remarks:								



Wetland P3-B2-9- View facing east



Wetland P3-B2-9- Soils

SITE PHOTOGRAPHS

WETLAND DETERMINATION DATA SHEET – Northcentral and Northeast Region

See ERDC/EL TR-12-1; the proponent agency is CECW-CO-R

Project/Site: CHPE		City/County: Fort Ed	ward/Washington	Sampling Date: 10/11/22
Applicant/Owner: TDI			State: NY	Sampling Point: P3-B2-9 upl
Investigator(s): N. Frazer & J. Greaves		Section, To	wnship, Range:	
Landform (hillside, terrace, etc.): flat	Local re	elief (concave, conve	ex, none): none	Slope %: 0
Subregion (LRR or MLRA): LRR R	Lat: 43-15-34.12N	•	73-35-32.10W	 Datum: WGS84
Soil Map Unit Name: Hudson silt loam (HuB)		~	NWI classification:	
Are climatic / hydrologic conditions on the site		Yes x		explain in Remarks.)
Are Vegetation , Soil , or Hydrol			nal Circumstances" prese	•
Are Vegetation, Soil, or Hydrol	· <u>······</u>		d, explain any answers in	·
SUMMARY OF FINDINGS – Attach	site map snowing samp	pling point loca	tions, transects, im	nportant reatures, etc.
Hydrophytic Vegetation Present?	Yes No _X	Is the Sampled A	rea	
Hydric Soil Present?	Yes No X	within a Wetland		No X
Wetland Hydrology Present?	Yes No _X	If yes, optional We	etland Site ID:	
Remarks: (Explain alternative procedures he	ere or in a separate report.)			
Gravel filled area.				
HYDROLOGY				
Wetland Hydrology Indicators:			Secondary Indicators (n	minimum of two required)
Primary Indicators (minimum of one is require	ed; check all that apply)		Surface Soil Cracks	s (B6)
Surface Water (A1)	Water-Stained Leaves (B	9)	Drainage Patterns (
—— High Water Table (A2)	Aquatic Fauna (B13)		Moss Trim Lines (B	·
Saturation (A3)	Marl Deposits (B15)		Dry-Season Water	
Water Marks (B1)	Hydrogen Sulfide Odor (C	•	Crayfish Burrows (C	,
Sediment Deposits (B2)	Oxidized Rhizospheres or			on Aerial Imagery (C9)
Drift Deposits (B3)	Presence of Reduced Iron	` '	Stunted or Stressed	
Algal Mat or Crust (B4) Iron Deposits (B5)	Recent Iron Reduction in Thin Muck Surface (C7)	Tilled Solis (Co)	Geomorphic Position	
Inundation Visible on Aerial Imagery (B7		re)	Shallow Aquitard (D Microtopographic R	·
Sparsely Vegetated Concave Surface (B	· —	.5)	FAC-Neutral Test (I	
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):		d Hydrology Present?	Yes No _ X _
(includes capillary fringe)				
Describe Recorded Data (stream gauge, mor	nitoring well, aerial photos, pre	vious inspections), if	available:	
Remarks:				

Free Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator	Dominance Test worksheet:
		Species?	Status	Dominance rest worksneet:
Robinia pseudoacacia	10	Yes	FACU	Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)
				mat Ale OBL, FACW, OFFAC.
				Total Number of Dominant Species Across All Strata: 5 (B)
				Species Across All Strata: 5 (B)
				Percent of Dominant Species That Are OBL, FACW, or FAC:(A/E
·				Prevalence Index worksheet:
	10	=Total Cover		Total % Cover of: Multiply by:
apling/Shrub Stratum (Plot size:15')				OBL species0 x 1 =0
Cornus racemosa	15	Yes	FAC	FACW species 0 x 2 = 0
Lonicera tatarica	10	Yes	FACU_	FAC species 20 x 3 = 60
				FACU species 67 x 4 = 268
				UPL species 5 x 5 = 25
				Column Totals: 92 (A) 353 (E
				Prevalence Index = B/A = 3.84
				Hydrophytic Vegetation Indicators:
	25	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
erb Stratum (Plot size: 5')				2 - Dominance Test is >50%
Lotus corniculatus	35	Yes	FACU	3 - Prevalence Index is ≤3.0 ¹
Galium boreale	5	No	FAC	4 - Morphological Adaptations ¹ (Provide supporti
Fragaria virginiana	2	No	FACU	data in Remarks or on a separate sheet)
Centaurea stoebe	5	No	UPL	Problematic Hydrophytic Vegetation ¹ (Explain)
				¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
·				Definitions of Vegetation Strata:
·				Tree – Woody plants 3 in. (7.6 cm) or more in
				diameter at breast height (DBH), regardless of heigh
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
	47	=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
Celastrus orbiculatus	10	Yes	FACU	height.
				Hydrophytic
				Vegetation Present? Yes No _X

SOIL Sampling Point P3-B-9 upl

Profile Desc	ription: (Describe t	to the de	pth needed to docu	ument th	ne indica	tor or co	onfirm the absence of	indicators.)	
Depth	Matrix			x Featur					
(inches)	Color (moist)		Color (moist)		Type ¹	Loc ²	Texture	Rema	arks
		<u> </u>					_		_
1- 0.0							2, ,, ,,		
	ncentration, D=Depl	etion, RN	I=Reduced Matrix, N	/IS=Masi	ked Sand	Grains.		=Pore Lining, M=M	
Hydric Soil I			D 1 0 1 1	07)				r Problematic Hyd	
— Histosol (•		Dark Surface ((00) (ck (A10) (LRR K, L ,	·
	ipedon (A2)		Polyvalue Belo		ce (S8) (I	LKK K,		airie Redox (A16) (L	•
Black His			MLRA 149B	•				cky Peat or Peat (S	
	Sulfide (A4)		Thin Dark Surf		-			Below Surface (S8	
	Layers (A5)	(* 4 4)	High Chroma S					Surface (S9) (LRF	
	Below Dark Surface	e (A11)	Loamy Mucky			R K, L)		ganese Masses (F1	
	rk Surface (A12)		Loamy Gleyed		F2)			t Floodplain Soils (F	
	odic (A17)		Depleted Matri						utside MLRA 145)
-	A 144A, 145, 149B)		Redox Dark Su		-			llow Dark Surface (F22)
	ucky Mineral (S1)		Depleted Dark				Other (Ex	plain in Remarks)	
	eyed Matrix (S4)		Redox Depress		3)		3, ,,		
	edox (S5)		Marl (F10) (LR					s of hydrophytic ve	
Stripped	Matrix (S6)		Red Parent Ma	iterial (F	21) (MLF	RA 145)		d hydrology must be	
							unless	disturbed or proble	matic.
	ayer (if observed):								
Type: _	grav	el							
Depth (in	ches):	0					Hydric Soil Presen	t? Yes	NoX
Remarks:									
No soils- grav	el fill present.								



Upland P3-B2-9- View facing northeast



Upland P3-B2-9- Gravel

SITE PHOTOGRAPHS

WETLAND DETERMINATION DATA SHEET – Northcentral and Northeast Region

See ERDC/EL TR-12-1; the proponent agency is CECW-CO-R

Project/Site: CHPE	(City/County: Fort Ed	ward/Washington	Sampling Date: 10/11/22
Applicant/Owner: TDI			State: NY	Sampling Point: P3-A2-3 wet
Investigator(s): N. Frazer & J. Greaves		Section, To	wnship, Range:	
Landform (hillside, terrace, etc.): ditch	Local re	 lief (concave, conve	ex, none): concave	Slope %: 1
Subregion (LRR or MLRA): LRR R	Lat: 43-15-27.78N	•	73-35-36.41W	 Datum: WGS84
Soil Map Unit Name: Unadilla very fine sandy			NWI classification:	PEM
Are climatic / hydrologic conditions on the site	· · · · · · · · · · · · · · · · · · ·	Yes x		explain in Remarks.)
Are Vegetation , Soil , or Hydrol	,		nal Circumstances" prese	
			•	
Are Vegetation, Soil, or Hydrol	' <u></u>		d, explain any answers in	•
SUMMARY OF FINDINGS – Attach	Site map snowing samp	oling point loca	tions, transects, iiii	iportant features, etc.
Hydrophytic Vegetation Present?	Yes X No	Is the Sampled A	rea	
Hydric Soil Present?	Yes X No	within a Wetland		No
Wetland Hydrology Present?	Yes X No	If yes, optional We	etland Site ID:	
Remarks: (Explain alternative procedures he	re or in a separate report.)			
Vegetated roadside ditch.				
HYDROLOGY				
Wetland Hydrology Indicators:			Secondary Indicators (m	ninimum of two required)
Primary Indicators (minimum of one is require	ed: check all that apply)		Surface Soil Cracks	
X Surface Water (A1)	Water-Stained Leaves (B9	9)	Drainage Patterns (
High Water Table (A2)	Aquatic Fauna (B13)	,	Moss Trim Lines (B	·
Saturation (A3)	Marl Deposits (B15)		Dry-Season Water	·
Water Marks (B1)	Hydrogen Sulfide Odor (C	:1)	Crayfish Burrows (C	
Sediment Deposits (B2)	Oxidized Rhizospheres on	Living Roots (C3)	Saturation Visible of	n Aerial Imagery (C9)
Drift Deposits (B3)	Presence of Reduced Iron	n (C4)	Stunted or Stressed	d Plants (D1)
X Algal Mat or Crust (B4)	Recent Iron Reduction in	Tilled Soils (C6)	X Geomorphic Positio	n (D2)
Iron Deposits (B5)	Thin Muck Surface (C7)		Shallow Aquitard (D	03)
Inundation Visible on Aerial Imagery (B7)	Other (Explain in Remarks	s)	Microtopographic R	elief (D4)
Sparsely Vegetated Concave Surface (B	8)		X FAC-Neutral Test (D5)
Field Observations:				
Surface Water Present? Yes x	No Depth (inches): _	0.5		
Water Table Present? Yes	No x Depth (inches):			
Saturation Present? Yes x	No Depth (inches): _	10 Wetlan	d Hydrology Present?	Yes <u>X</u> No
(includes capillary fringe)	W. C. W. C. W. Laborator Branch	· · · · · · · · · · · · · · · · · · ·	9.11.	
Describe Recorded Data (stream gauge, mor	nitoring well, aerial photos, prev	vious inspections), ii	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:(A)
3. 4.				Total Number of Dominant Species Across All Strata: 2 (B)
5.6.				Percent of Dominant Species That Are OBL, FACW, or FAC:(A/B)
7				Prevalence Index worksheet:
		=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size:15')				OBL species 0 x 1 = 0
1.				FACW species 45 x 2 = 90
2.				FAC species 52 x 3 = 156
3.				FACU species 0 x 4 = 0
4.				UPL species 0 x 5 = 0
5.				Column Totals: 97 (A) 246 (B)
6.				Prevalence Index = B/A = 2.54
7.				Hydrophytic Vegetation Indicators:
		=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5')				X 2 - Dominance Test is >50%
1. Equisetum hyemale	50	Yes	FAC	X 3 - Prevalence Index is ≤3.0 ¹
Phalaris arundinacea	45	Yes	FACW	4 - Morphological Adaptations ¹ (Provide supporting
3. Setaria pumila	2	No	FAC	data in Remarks or on a separate sheet)
4				Problematic Hydrophytic Vegetation ¹ (Explain)
5				
6				¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
7				Definitions of Vegetation Strata:
				-
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
	97	=Total Cover		of size, and woody plants less than 3.28 ft tall.
<u>Woody Vine Stratum</u> (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 separ	rata abaat \	- Total Gover		
	,			

Sampling Point: P3-A-3 wet

SOIL Sampling Point P3-A-3 wet

Profile Desc Depth	cription: (Describe to Matrix	o tne de		ument tl x Featur		ator or co	onfirm the absence of	rindicators.)
(inches)	Color (moist)	%	Color (moist)	_ %	Type ¹	Loc ²	Texture	Remarks
0-6	10YR 3/1	90	10YR 3/6	10	С	M	Sandy	Prominent redox concentrations
6-16	10YR 4/1	65	10YR 2/2	30	C	M	Sandy	Faint redox concentrations
			10YR 5/3	5	C	M		Distinct redox concentrations
¹Type: C=Co	oncentration, D=Deple	etion, RM	——————————————————————————————————————	—— иS=Mas	ked San	d Grains.	² Location: Pl	L=Pore Lining, M=Matrix.
Hydric Soil	Indicators:						Indicators fo	or Problematic Hydric Soils ³ :
Histosol	(A1)		Dark Surface ((S7)			2 cm Mu	ick (A10) (LRR K, L, MLRA 149B)
—— Histic Ep	oipedon (A2)		Polyvalue Belo	w Surfa	ce (S8) (LRR R,	Coast Pr	rairie Redox (A16) (LRR K, L, R)
Black Hi			MLRA 149B		, , ,			icky Peat or Peat (S3) (LRR K, L, R)
	n Sulfide (A4)		Thin Dark Surf	,	(LRR R	, MLRA 1		e Below Surface (S8) (LRR K, L)
	l Layers (A5)		High Chroma S					k Surface (S9) (LRR K, L)
	d Below Dark Surface	(A11)	Loamy Mucky	-				nganese Masses (F12) (LRR K, L, R)
	ark Surface (A12)	(,	Loamy Gleyed			, -,		nt Floodplain Soils (F19) (MLRA 149E
	podic (A17)		Depleted Matri		,			ent Material (F21) (outside MLRA 14
	A 144A, 145, 149B)		Redox Dark Su		6)			allow Dark Surface (F22)
	lucky Mineral (S1)		Depleted Dark	-	-			xplain in Remarks)
	Gleyed Matrix (S4)		Redox Depres					Apidin in remarks)
X Sandy R			Marl (F10) (LR		0)		³ Indicator	rs of hydrophytic vegetation and
	Matrix (S6)		Red Parent Ma	-	21\ (ML I	DA 145\		id hydrology must be present,
	. ,		Red Parent Wa	Tieriai (F	21) (IVILI	XA 145)		s disturbed or problematic.
	Layer (if observed):	_						
Type:	none	3						
Depth (ir	nches):						Hydric Soil Presen	nt? Yes X No
Remarks:								



Wetland P3-A2-3- View facing southeast



Wetland P3-A2-3- Soils

SITE PHOTOGRAPHS

WETLAND DETERMINATION DATA SHEET – Northcentral and Northeast Region

See ERDC/EL TR-12-1; the proponent agency is CECW-CO-R

Project/Site: CHPE	(City/County: Fort Ed	ward/Washington	Sampling Date: 10/11/22
Applicant/Owner: TDI			State: NY	Sampling Point: P3-A2-3 upl
Investigator(s): N. Frazer & J. Greaves		Section, To	wnship, Range:	<u> </u>
Landform (hillside, terrace, etc.): flat	Local re	elief (concave, conve	ex. none): none	Slope %: 0
Subregion (LRR or MLRA): LRR R	Lat: 43-15-27.87N	•	73-35-36.50W	Datum: WGS84
Soil Map Unit Name: Unadilla very fine sand		==: 5	NWI classification:	n/a
Are climatic / hydrologic conditions on the site		Yes x		explain in Remarks.)
, ,	•		 `	,
Are Vegetation, Soil, or Hydrol			nal Circumstances" prese	
Are Vegetation, Soil, or Hydrol	<u> </u>		d, explain any answers in	•
SUMMARY OF FINDINGS – Attach	site map showing samp	pling point loca	tions, transects, im	portant features, etc.
Hydrophytic Vegetation Present?	Yes X No	Is the Sampled A	rea	
Hydric Soil Present?	Yes No X	within a Wetland	? Yes	No X
Wetland Hydrology Present?	Yes No X	If yes, optional We	etland Site ID:	
Remarks: (Explain alternative procedures he	ere or in a separate report.)			
Railroad ballast.				
HYDROLOGY				
Wetland Hydrology Indicators:				ninimum of two required)
Primary Indicators (minimum of one is require			Surface Soil Cracks	
Surface Water (A1)	Water-Stained Leaves (B	59)	Drainage Patterns (•
High Water Table (A2)	Aquatic Fauna (B13)		Moss Trim Lines (B	·
Saturation (A3)	Marl Deposits (B15)		Dry-Season Water	· ·
Water Marks (B1)	Hydrogen Sulfide Odor (C	•	Crayfish Burrows (C	·
Sediment Deposits (B2)	Oxidized Rhizospheres or			n Aerial Imagery (C9)
Drift Deposits (B3)	Presence of Reduced Iron	` '	Stunted or Stressed	· ·
Algal Mat or Crust (B4)	Recent Iron Reduction in	Tilled Soils (Cb)	Geomorphic Position	
Iron Deposits (B5)	Thin Muck Surface (C7)		Shallow Aquitard (D	•
Inundation Visible on Aerial Imagery (B7)	· · · · ·	is)	Microtopographic R	
Sparsely Vegetated Concave Surface (B	8)		FAC-Neutral Test (I	D5)
Field Observations:	Nonth (inches)			
Surface Water Present? Yes	No x Depth (inches):			
Water Table Present? Saturation Present? Yes Yes	No x Depth (inches): _ No x Depth (inches): _		d Hydrology Present?	Voc. No. V
Saturation Present? Yes (includes capillary fringe)	No x Depth (inches):		a hydrology rieselli:	Yes No _X_
Describe Recorded Data (stream gauge, mor	nitoring well aerial photos prev	vious inspections) if	available.	
Booking (Carami gang),	mtoring mon, dona. prictor, p. 1.	vious mopestis.is,,	avanasio.	
Remarks:				

	Absolute	Dominant	Indicator	
ree Stratum (Plot size:)	% Cover	Species?	Status	Dominance Test worksheet:
				Number of Dominant Species
				That Are OBL, FACW, or FAC:1 (A)
				Total Number of Demain and
				Total Number of Dominant Species Across All Strata: 1 (B)
				(2)
				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 species0 x 1 =0
				FACW species 0 x 2 = 0
				FAC species 10 x 3 = 30
				FACU species 0 x 4 = 0
				UPL species 0 x 5 = 0
				Column Totals: 10 (A) 30 (E
				Prevalence Index = B/A = 3.00
				Hydrophytic Vegetation Indicators:
		=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
erb Stratum (Plot size: 5')				X 2 - Dominance Test is >50%
Equisetum hyemale	10	Yes	FAC	3 - Prevalence Index is ≤3.0 ¹
				4 - Morphological Adaptations ¹ (Provide supporti
				data in Remarks or on a separate sheet)
·		·		Problematic Hydrophytic Vegetation ¹ (Explain)
·				¹ Indicators of hydric soil and wetland hydrology must
·				be present, unless disturbed or problematic.
·				Definitions of Vegetation Strata:
				Tree – Woody plants 3 in. (7.6 cm) or more in
				diameter at breast height (DBH), regardless of heigh
				Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
				and greater than or equal to 3.20 ft (1 m) tall.
2				Herb – All herbaceous (non-woody) plants, regardles
	10	=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
				height.
				Hydrophytic
				Vegetation Present? Yes X No
		=Total Cover		

SOIL Sampling Point P3-A-3 upl

Profile Desc	ription: (Describe t	to the de	pth needed to docu	ıment th	ne indica	tor or co	onfirm the absence of	indicators.)	
Depth	Matrix			x Featur					
(inches)	Color (moist)		Color (moist)		Type ¹	Loc ²	Texture	Rem	arks
									_
1- 0.0							2		•
	ncentration, D=Depl	etion, RIV	I=Reduced Matrix, N	IS=Masi	ked Sand	Grains.		_=Pore Lining, M=N	
Hydric Soil I			D 1 0 1 /	07)				r Problematic Hyd	
— Histosol (Dark Surface ((00) (ck (A10) (LRR K, L	•
	ipedon (A2)		Polyvalue Belo		ce (S8) (I	LKK K,		airie Redox (A16) (•
Black His			MLRA 149B	•				cky Peat or Peat (S	
	Sulfide (A4)		Thin Dark Surf		-			e Below Surface (S	
	Layers (A5)		High Chroma S					k Surface (S9) (LR I	
	Below Dark Surface	e (A11)	Loamy Mucky			R K, L)		ganese Masses (F	
	rk Surface (A12)		Loamy Gleyed		F2)				F19) (MLRA 149B)
	odic (A17)		Depleted Matri						outside MLRA 145)
_	A 144A, 145, 149B)		Redox Dark Su		-			llow Dark Surface	(F22)
	ucky Mineral (S1)		Depleted Dark				Other (Ex	kplain in Remarks)	
	leyed Matrix (S4)		Redox Depress		8)		2		
	edox (S5)		Marl (F10) (LR					rs of hydrophytic ve	•
Stripped	Matrix (S6)		Red Parent Ma	iterial (F	21) (MLF	RA 145)		d hydrology must b	
							unless	disturbed or proble	matic.
	ayer (if observed):								
Type: _	balla	ıst							
Depth (in	ches):	0					Hydric Soil Presen	t? Yes	NoX
Remarks:									
	ent- railroad ballast.								



Upland P3-A2-3- View facing northeast

SITE PHOTOGRAPHS

WETLAND DETERMINATION DATA SHEET – Northcentral and Northeast Region

See ERDC/EL TR-12-1; the proponent agency is CECW-CO-R

Project/Site: CHPE	(City/County: Fort Ed	ward/Washington	Sampling Date: 10/11/22
Applicant/Owner: TDI			State: NY	Sampling Point: P3-E2-4 wet
Investigator(s): N. Frazer & J. Greaves		Section, To	wnship, Range:	
Landform (hillside, terrace, etc.): depression	n Local re	elief (concave, conve	ex, none): concave	Slope %: 0
Subregion (LRR or MLRA): LRR R	 Lat:	Long:	· ,	 Datum:
Soil Map Unit Name: Unadilla very fine sand		~	NWI classification:	PEM
Are climatic / hydrologic conditions on the site		Yes x	No (If no, e	explain in Remarks.)
Are Vegetation , Soil , or Hydrol	,,		nal Circumstances" prese	
				
Are Vegetation, Soil, or Hydrol SUMMARY OF FINDINGS – Attach	<u> </u>		d, explain any answers in	•
SUMMART OF FINDINGS - ALLACIT	Site map snowing same			iportant leatures, etc.
Hydrophytic Vegetation Present?	Yes X No	Is the Sampled A		
Hydric Soil Present?	Yes X No	within a Wetland?		No
Wetland Hydrology Present?	Yes X No	If yes, optional We	etland Site ID:	
Remarks: (Explain alternative procedures he	ere or in a separate report.)			
Shallow emergent marsh.				
HYDROLOGY				
Wetland Hydrology Indicators:			Secondary Indicators (n	ninimum of two required)
Primary Indicators (minimum of one is require	ed; check all that apply)		Surface Soil Cracks	
Surface Water (A1)	Water-Stained Leaves (BS	9)	Drainage Patterns (
X High Water Table (A2)	Aquatic Fauna (B13)		Moss Trim Lines (B	16)
X Saturation (A3)	Marl Deposits (B15)		Dry-Season Water	Table (C2)
—— Water Marks (B1)	Hydrogen Sulfide Odor (C	•	Crayfish Burrows (C	·
Sediment Deposits (B2)	Oxidized Rhizospheres or			n Aerial Imagery (C9)
Drift Deposits (B3)	Presence of Reduced Iron		Stunted or Stressed	
Algal Mat or Crust (B4)	Recent Iron Reduction in	Tilled Soils (Co)	X Geomorphic Positio	` '
Iron Deposits (B5)	Thin Muck Surface (C7) Other (Explain in Remarks	·a1	Shallow Aquitard (D	•
Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B	· 	s)	Microtopographic R X FAC-Neutral Test (I	
Field Observations:	0)			
Surface Water Present? Yes	No x Depth (inches):			
Water Table Present? Yes x	No Depth (inches):	9		
Saturation Present? Yes x	No Depth (inches):		d Hydrology Present?	Yes X No
(includes capillary fringe)			,	· · · · · · · · · · · · · · · · · · ·
Describe Recorded Data (stream gauge, mor	nitoring well, aerial photos, prev	vious inspections), if	available:	
Remarks:				

EGETATION – Use scientific names of pla		Daminant	Indicator	Sampling Point: P3-E-4 wet
Free Stratum (Plot size:30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
·				Number of Dominant Species
				That Are OBL, FACW, or FAC: 2 (A)
i				Total Number of Dominant
				Species Across All Strata: 3 (B)
j				Percent of Dominant Species
j				That Are OBL, FACW, or FAC: 66.7% (A/B)
				Prevalence Index worksheet:
		=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size:15')				OBL species0 x 1 =0
. Alnus incana	20	Yes	FACW	FACW species 115 x 2 = 230
2. Lonicera tatarica	5	Yes	FACU	FAC species 5 x 3 = 15
3.				FACU species 7 x 4 = 28
l				UPL species0 x 5 =0
5				Column Totals: 127 (A) 273 (B)
S				Prevalence Index = B/A = 2.15
·		<u> </u>		Hydrophytic Vegetation Indicators:
	25	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5')				X 2 - Dominance Test is >50%
1. Bidens frondosa	80	Yes	FACW	X 3 - Prevalence Index is ≤3.0 ¹
2. Impatiens capensis	15	No	FACW	4 - Morphological Adaptations ¹ (Provide supportin
3. Solanum dulcamara	5	No	FAC	data in Remarks or on a separate sheet)
4.				Problematic Hydrophytic Vegetation ¹ (Explain)
5 6.		· <u> </u>		¹ 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
8 9			<u> </u>	Tree – Woody plants 3 in. (7.6 cm) or more in
8				
8				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.
8		=Total Cover		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
8		=Total Cover		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.
8		=Total Cover	FACU	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
8	100		FACU	Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardles of size, and woody plants less than 3.28 ft tall. Woody vines – All woody vines greater than 3.28 ft in
8	100		FACU	Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardles of size, and woody plants less than 3.28 ft tall. Woody vines – All woody vines greater than 3.28 ft in height. Hydrophytic
8	100		FACU	Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardles of size, and woody plants less than 3.28 ft tall. Woody vines – All woody vines greater than 3.28 ft i height. Hydrophytic Vegetation
8.	2		FACU	Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardles of size, and woody plants less than 3.28 ft tall. Woody vines – All woody vines greater than 3.28 ft i height. Hydrophytic Vegetation

SOIL Sampling Point P3-E-4 wet

Profile Desc Depth	ription: (Describe t Matrix	to the de	•	ıment tl ∢Featur		ator or co	onfirm the absence of	f indicators.)	
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Ren	narks
0-18	10YR 3/1	90	7.5YR 3/4	10	С	М	Loamy/Clayey	Prominent redo	ox concentrations
									_
									_
	oncentration, D=Depl	etion, RN	/I=Reduced Matrix, M	IS=Masl	ked San	d Grains.		L=Pore Lining, M=	
Hydric Soil I			5	a=\				or Problematic Hy	
— Histosol			Dark Surface (,	oo (CO) (LDDD		ick (A10) (LRR K, I	•
Black His	ipedon (A2)		Polyvalue Belo MLRA 149B		ce (58) (LKK K,		rairie Redox (A16) cky Peat or Peat (3	
	n Sulfide (A4)		Thin Dark Surfa		(LRR R	. MLRA 1		e Below Surface (S	
	Layers (A5)		High Chroma S		-			k Surface (S9) (LR	
	Below Dark Surface	(A11)	Loamy Mucky I	-					12) (LRR K, L, R)
Thick Da	rk Surface (A12)		Loamy Gleyed	Matrix (F2)		Piedmor	nt Floodplain Soils	(F19) (MLRA 149B)
Mesic Sp	oodic (A17)		Depleted Matrix	x (F3)			Red Pare	ent Material (F21) ((outside MLRA 145)
	A 144A, 145, 149B)		X Redox Dark Su		-			allow Dark Surface	
	ucky Mineral (S1)		Depleted Dark				Other (E	xplain in Remarks)	
_	leyed Matrix (S4)		Redox Depress		8)		31		
	edox (S5) Matrix (S6)		Marl (F10) (LR Red Parent Ma	-	21\ (MI I	DA 145\		rs of hydrophytic v	=
Stripped	Matrix (50)		TREGIT ALERT WA	teriai (i	21) (IVILI	(A 140)		disturbed or probl	
Restrictive L	ayer (if observed):								
Type:	none	е							
Depth (ir	nches):						Hydric Soil Preser	nt? Yes_	X No
Remarks:							!		



Wetland P3-E2-4- View facing northeast



Wetland P3-E2-4- Soils

SITE PHOTOGRAPHS

WETLAND DETERMINATION DATA SHEET – Northcentral and Northeast Region

See ERDC/EL TR-12-1; the proponent agency is CECW-CO-R

Project/Site: CHPE		City/County: Fort Ed	ward/Washington	Sampling Date: 10/11/22
Applicant/Owner: TDI			State: NY	Sampling Point: P3-E2-4 upl
Investigator(s): N. Frazer & J. Greaves		Section, To	wnship, Range:	
Landform (hillside, terrace, etc.): hillslope	Local re	elief (concave, conve	ex, none): none	Slope %: 3
Subregion (LRR or MLRA): LRR R	 Lat:	Long:	· ,	 Datum:
Soil Map Unit Name: Unadilla very fine sandy		~	NWI classification:	
Are climatic / hydrologic conditions on the site		Yes x	No (If no,	explain in Remarks.)
Are Vegetation, Soil, or Hydrol	,,		nal Circumstances" prese	•
Are Vegetation, Soil, or Hydrol			d, explain any answers in	•
SUMMARY OF FINDINGS – Attach	site map snowing samp	pling point loca	tions, transects, iii	iportant reatures, etc.
Hydrophytic Vegetation Present?	Yes No _X_	Is the Sampled A	rea	
Hydric Soil Present?	Yes No X	within a Wetland		No X
Wetland Hydrology Present?	Yes No _X	If yes, optional We	tland Site ID:	
Remarks: (Explain alternative procedures he	ere or in a separate report.)			
railroad ballast				
HYDROLOGY				
Wetland Hydrology Indicators:			Secondary Indicators (n	minimum of two required)
Primary Indicators (minimum of one is require	ed; check all that apply)		Surface Soil Cracks	s (B6)
Surface Water (A1)	Water-Stained Leaves (B	9)	Drainage Patterns (
—— High Water Table (A2)	Aquatic Fauna (B13)		Moss Trim Lines (B	·
Saturation (A3)	Marl Deposits (B15)		Dry-Season Water	
Water Marks (B1)	Hydrogen Sulfide Odor (C	•	Crayfish Burrows (C	,
Sediment Deposits (B2)	Oxidized Rhizospheres or	• , ,		on Aerial Imagery (C9)
Drift Deposits (B3)	Presence of Reduced Iron		Stunted or Stressed	
Algal Mat or Crust (B4) Iron Deposits (B5)	Recent Iron Reduction in Thin Muck Surface (C7)	Tilled Solis (Co)	Geomorphic Position	` '
Inundation Visible on Aerial Imagery (B7)		re)	Shallow Aquitard (D Microtopographic R	· ·
Sparsely Vegetated Concave Surface (Bi	· 	.5)	FAC-Neutral Test (I	
Field Observations:		<u> </u>		
Surface Water Present? Yes	No x Depth (inches):			
Water Table Present? Yes	No x Depth (inches):			
Saturation Present? Yes	No x Depth (inches):		d Hydrology Present?	Yes No _ X
(includes capillary fringe)				
Describe Recorded Data (stream gauge, mor	nitoring well, aerial photos, prev	vious inspections), if	available:	
Remarks:				

	Absolute Dominan	t Indicator	
ee Stratum (Plot size:)	% Cover Species?		Dominance Test worksheet:
			Number of Dominant Species
			That Are OBL, FACW, or FAC: (A)
			Total Number of Density and
			Total Number of Dominant Species Across All Strata: (B)
		_	(5)
			Percent of Dominant Species That Are OBL, FACW, or FAC: (A/E
		_	That Are OBL, FACW, or FAC: (A/E
	=Total Cove	er	Total % Cover of: Multiply by:
apling/Shrub Stratum (Plot size:15')			OBL species x 1 =
			FACW species x 2 =
			FAC species x 3 =
			FACU species x 4 =
			UPL species x 5 =
		_	Column Totals: (A)
			Prevalence Index = B/A =
			Hydrophytic Vegetation Indicators:
	=Total Cove	er	1 - Rapid Test for Hydrophytic Vegetation
erb Stratum (Plot size:5')			2 - Dominance Test is >50%
			3 - Prevalence Index is ≤3.0 ¹
			4 - Morphological Adaptations ¹ (Provide supporti
			data in Remarks or on a separate sheet)
			Problematic Hydrophytic Vegetation ¹ (Explain)
			Troblematiorrydrophytic vegetation (Explain)
			¹ Indicators of hydric soil and wetland hydrology must
			be present, unless disturbed or problematic.
			Definitions of Vegetation Strata:
			Tree – Woody plants 3 in. (7.6 cm) or more in
			diameter at breast height (DBH), regardless of heigh
·			Sapling/shrub – Woody plants less than 3 in. DBH
•			and greater than or equal to 3.28 ft (1 m) tall.
			Herb – All herbaceous (non-woody) plants, regardles
	=Total Cove	er	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
			height.
			Hydrophytic
			Vegetation
	=Total Cove	<u> </u>	

SOIL Sampling Point P3-E-4 upl

Profile Desc	ription: (Describe t	to the de	pth needed to docu	ument th	ne indica	tor or co	onfirm the absence of	indicators.)	
Depth	Matrix			x Featur					
(inches)	Color (moist)		Color (moist)		Type ¹	Loc ²	Texture	Re	emarks
1- 0.0							2		
	ncentration, D=Depl	etion, RN	I=Reduced Matrix, N	/IS=Masi	ked Sand	Grains.		=Pore Lining, M	
Hydric Soil I			D 1 0 1 1	07)				r Problematic H	-
— Histosol (Dark Surface ((00) (, L, MLRA 149B)
	ipedon (A2)		Polyvalue Belo		ce (S8) (I	LKK K,		airie Redox (A16	
Black His			MLRA 149B	•				-	(S3) (LRR K, L, R)
	Sulfide (A4)		Thin Dark Surf		-				(S8) (LRR K, L)
	Layers (A5)		High Chroma S					Surface (S9) (L	
	Below Dark Surface	e (A11)	Loamy Mucky			R K, L)			(F12) (LRR K, L, R)
	rk Surface (A12)		Loamy Gleyed		F2)				s (F19) (MLRA 149B)
	odic (A17)		Depleted Matri) (outside MLRA 145)
-	A 144A, 145, 149B)		Redox Dark Su		-			llow Dark Surfac	
	ucky Mineral (S1)		Depleted Dark				Other (Ex	plain in Remark	s)
	leyed Matrix (S4)		Redox Depress		3)		2		
	edox (S5)		Marl (F10) (LR					s of hydrophytic	
Stripped Matrix (S6)			Red Parent Ma	terial (F	21) (MLF	RA 145)		d hydrology mus	
							unless	disturbed or pro	olematic.
	ayer (if observed):								
Type: _	balla	st							
Depth (in	ches):	0					Hydric Soil Presen	t? Yes_	No _X_
Remarks:									
Railroad balla	ast- no soils.								



Upland P3-E2-4- View facing north



Upland P3-E2-4- Railroad ballast

SITE PHOTOGRAPHS

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: CHPE - Package 3 - South of Air Park - MP 135.8	City/County: Saratoga Sampling Date: 10/12/22
Applicant/Owner: CHPE	State: NY Sampling Point: G-P3-F_WET
Investigator(s): KW, KS	Section, Township, Range: Gaansvort
Landform (hillside, terrace, etc.): Shoulder Local	relief (concave, convex, none): Convex Slope %: 0
Subregion (LRR or MLRA): LRR R, MLRA 144A Lat: 43°,15',20.51"N	Long: 73°,35',40.08"W Datum:
Soil Map Unit Name: Unadilla Very Fine Sandy Loam	NWI classification: PFO
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes X No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly distur	
Are Vegetation , Soil , or Hydrology naturally problema	
SUMMARY OF FINDINGS – Attach site map showing sam	
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	within a Wetland? Yes X No No If yes, optional Wetland Site ID:
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
X Surface Water (A1) X Water-Stained Leaves (I	
High Water Table (A2) Aquatic Fauna (B13) And Banasite (B15)	Moss Trim Lines (B16)
Saturation (A3) Marl Deposits (B15) Wester Marks (B1)	C1) Dry-Season Water Table (C2) Crayfish Burrows (C8)
Water Marks (B1) Hydrogen Sulfide Odor (Sediment Deposits (B2) Oxidized Rhizospheres	
Drift Deposits (B3) Presence of Reduced In	
Algal Mat or Crust (B4) Algal Mat or Crust (B4) Recent Iron Reduction in	
Iron Deposits (B5) 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)
	A I AO-Neutral Test (D3)
Field Observations:	
Surface Water Present? Yes No X Depth (inches):	
Water Table Present? Yes No X Depth (inches):	
Saturation Present? Yes X No Depth (inches):	: 6 Wetland Hydrology Present? Yes X No
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	nvieus ingrestions) if available.
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	evious inspections), il avaliable:
Remarks:	
Tromano.	

Free Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:		
1. Populus deltoides	20	Yes	FAC			
2. Acer saccharinum	20	Yes	FACW	Number of Dominant Species That Are OBL, FACW, or FAC: 5 (A)		
. Ulmus americana	5	No	FACW			
	_			Total Number of Dominant Species Across All Strata: 8 (B)		
				Percent of Dominant Species That Are OBL, FACW, or FAC: 62.5% (A/B)		
	_			Prevalence Index worksheet:		
	45	=Total Cover		Total % Cover of: Multiply by:		
apling/Shrub Stratum (Plot size: 15')			OBL species x 1 =		
Cornus racemosa	., 15	Yes	FACW	FACW species x 2 =		
Lonicera tatarica	5	Yes	FACU	FAC species x 3 =		
. Rhus typhina	<u> </u>	Yes	UPL	FACU species x 4 =		
	_			UPL species x 5 =		
				Column Totals: (A) (B		
				Prevalence Index = B/A =		
				Hydrophytic Vegetation Indicators:		
	25	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation		
erb Stratum (Plot size: 5')				X 2 - Dominance Test is >50%		
,				3 - Prevalence Index is ≤3.0 ¹		
. Onoclea sensibilis	35	Yes	FACW	4 - Morphological Adaptations ¹ (Provide supportin		
. Lysimachia nummularia	15	Yes	FACW	data in Remarks or on a separate sheet)		
Solidago canadensis	10	No	FACU	Problematic Hydrophytic Vegetation ¹ (Explain)		
				<u>-</u>		
				¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.		
				Definitions of Vegetation Strata:		
·	_			Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.		
0.						
1.				Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.		
2.	_			, , ,		
	60	=Total Cover		Herb – All herbaceous (non-woody) plants, regardles of size, and woody plants less than 3.28 ft tall.		
Voody Vine Stratum (Plot size: 15')					
. Celastrus scandens	.,' 5	Yes	FACU	Woody vines – All woody vines greater than 3.28 ft in height.		
				3		
	_			Hydrophytic		
	_			Vegetation Present? Yes X No		
	- <u> </u>	=Total Cover				
Remarks: (Include photo numbers here or on a se						
terraine. (modes priote numbers here of off a se	parato dilect.)					

	-	to the de				itor or co	onfirm the absence o	f indicators.)
Depth	Matrix	0/		K Featur		. 2	- .	
(inches)	Color (moist)	%	Color (moist)	<u>%</u>	Type ¹	Loc ²	Texture	Remarks
0-14	10YR 2/2	95	10YR 5/8	5	С	M	Loamy/Clayey	Prominent redox concentrations
								-
1 T			4-Daduard Matrix N		lead Cara	0	21tion. D	I - Dana Limin at M Matrix
	oncentration, D=Depl	letion, Riv	/I=Reduced Matrix, N	i5=ivias	ked Sand	Grains.		L=Pore Lining, M=Matrix. or Problematic Hydric Soils ³ :
Hydric Soil			Dobavalua Pala	w Surfo	00 (59) (I DD D		•
Histosol	ipedon (A2)		Polyvalue Belo MLRA 149B		ce (So) (I	LKK K,		rairie Redox (A16) (LRR K, L, MLRA 149B)
Black His			Thin Dark Surfa		(I RR R	MI RA 1		icky Peat or Peat (S3) (LRR K, L, R)
	n Sulfide (A4)		High Chroma S				· —	le Below Surface (S8) (LRR K, L)
	Layers (A5)		Loamy Mucky I					k Surface (S9) (LRR K, L)
	l Below Dark Surface	e (A11)	Loamy Gleyed			, _ /		nganese Masses (F12) (LRR K, L, R)
	rk Surface (A12)	. ()	Depleted Matrix		. –,			nt Floodplain Soils (F19) (MLRA 149B)
	lucky Mineral (S1)		X Redox Dark Su		6)			podic (TA6) (MLRA 144A, 145, 149B)
	leyed Matrix (S4)		Depleted Dark					ent Material (F21)
	edox (S5)		? Redox Depress					allow Dark Surface (F22)
	Matrix (S6)		Marl (F10) (LR		•			xplain in Remarks)
Dark Sui	face (S7)							
³ Indicators of	hydrophytic vegetat	ion and v	vetland hydrology mι	ıst be pr	esent, ur	nless dist	urbed or problematic.	
Restrictive I	_ayer (if observed):							
Type:								
Depth (ir	nches):						Hydric Soil Prese	nt? Yes X No
Remarks:								
This data for								CS Field Indicators of Hydric Soils,
	2015 Errata. (http://w					S/nrcs142	2p2_051293.docx)	
No soil test p	it possible due to sol	lid substr	ate of cobble and dre	edge ma	iterial.			



Wetland G-P3-F



Wetland G-P3-F- Soils

SITE PHOTOGRAPHS

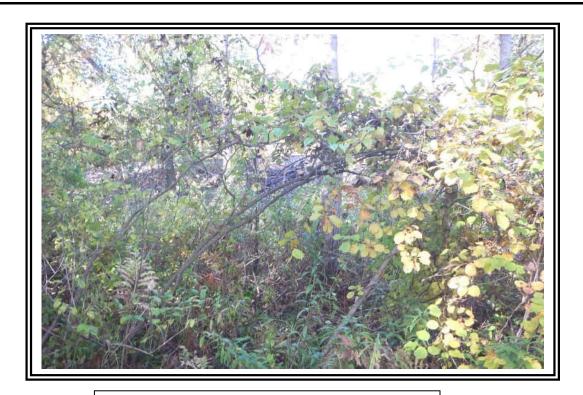
Project/Site: CHPE - Package 3 - South of Air Park - MP 13	35.8 City/County	y: Saratoga	Sampling Date: 10/12/22
Applicant/Owner: CHPE		State: NY	Sampling Point: G-P3-F_UF
Investigator(s): KW, KS	Se	ection, Township, Range: Gaansv	vort
Landform (hillside, terrace, etc.): Shoulder		ive, convex, none): Convex	Slope %: 5
Subregion (LRR or MLRA): LRR R, MLRA 144A Lat: 43'		Long: 73°,35',40.08"W	' Datum:
Soil Map Unit Name: Unadilla Very Fine Sandy Loam	,10,20.01 1	NWI classification:	
	time of year?		explain in Remarks.)
Are climatic / hydrologic conditions on the site typical for this	-		
Are Vegetation, Soil, or Hydrologysig		Are "Normal Circumstances" pres	
Are Vegetation, Soil, or Hydrologynat	turally problematic?	(If needed, explain any answers in	n Remarks.)
SUMMARY OF FINDINGS – Attach site map sh	nowing sampling poin	nt locations, transects, im	nportant features, etc.
Hydrophytic Vegetation Present? Yes	No X Is the Sa	ampled Area	
		Wetland? Yes	No X
<u> </u>		otional Wetland Site ID:	<u></u>
Remarks: (Explain alternative procedures here or in a sepa			
Themanie. (Explain alternative procedures note of in a copa	nato roporti,		
HYDROLOGY			
Wetland Hydrology Indicators:	_	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all th	at apply)	Surface Soil Crack	
	tained Leaves (B9)	Drainage Patterns	` '
<u> </u>	Fauna (B13)	Moss Trim Lines (E	` ,
l — · · · · · · · · · · · · · · · · · ·	posits (B15)	Dry-Season Water	
l 	n Sulfide Odor (C1)	Crayfish Burrows (
	Rhizospheres on Living Ro		on Aerial Imagery (C9)
	e of Reduced Iron (C4)	Stunted or Stresse	
	ron Reduction in Tilled Soils		
l —	ck Surface (C7)	Shallow Aquitard (
l 	xplain in Remarks)	Microtopographic F	•
Sparsely Vegetated Concave Surface (B8)	Aprair iii remarko)	FAC-Neutral Test	
 ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` `	T		(50)
Field Observations:	Donath (in the ca)		
	Depth (inches):		
	Depth (inches):	Wastan dillada la an Bura a asso	Waa Na V
	Depth (inches):	Wetland Hydrology Present?	Yes NoX
(includes capillary fringe)	prial photos, province inapa	otions) if quallable:	
Describe Recorded Data (stream gauge, monitoring well, as	anai priotos, previous inspet	alons), il avallable.	
Remarks:			
Remarks.			

<u>Tree Stratum</u> (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. Acer saccharum	25	Yes	FACU	Dominance rest worksheet.
Populus deltoides	15	Yes	FAC	Number of Dominant Species That Are OBL, FACW, or FAC: 3 (A)
3. Acer rubrum	5	No	FAC	
4		INO	TAC	Total Number of Dominant Species Across All Strata: 8 (B)
5.6.				Percent of Dominant Species That Are OBL, FACW, or FAC: 37.5% (A/B)
7.				Prevalence Index worksheet:
	45	=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size:15')				OBL species x 1 =
1. Rhamnus cathartica	15	Yes	FAC	FACW species x 2 =
2. Lonicera tatarica	15	Yes	FACU	FAC species x 3 =
3. Cornus amomum	5	No	FACW	FACU species x 4 =
4.				UPL species x 5 =
5.				Column Totals: (A) (B)
6.				Prevalence Index = B/A =
7.				Hydrophytic Vegetation Indicators:
	35	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5')				2 - Dominance Test is >50%
1.				3 - Prevalence Index is ≤3.0 ¹
Onoclea sensibilis	10	Yes	FACW	4 - Morphological Adaptations ¹ (Provide supporting
3. Daucus carota	10	Yes	UPL	data in Remarks or on a separate sheet)
4. Solidago canadensis	10	Yes	FACU	Problematic Hydrophytic Vegetation ¹ (Explain)
5.				¹ Indicators of hydric soil and wetland hydrology must
6.				be present, unless disturbed or problematic.
7.				Definitions of Vegetation Strata:
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	30	=Total Cover		Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size: 15')				
1. Celastrus scandens	5	Yes	FACU	Woody vines – All woody vines greater than 3.28 ft in height.
2				1100
2				Hydrophytic
Δ				Vegetation Present? Yes No X
·	5	=Total Cover		100 <u>No X</u>
Demonstrate (Include whate with one have an an an analysis		- Total Covel		
Remarks: (Include photo numbers here or on a separ	ate sneet.)			

Sampling Point: G-P3-F_UP

SOIL Sampling Point G-P3-F_UP

Profile Desc Depth	cription: (Describe t Matrix	to the de		ıment ti x Featur		itor or co	onfirm the absence of	indicators.)
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-14	10YR 3/3	100					Loamy/Clayey	
							<u> </u>	
¹ Type: C=Ce	oncentration, D=Depl	etion, RM	1=Reduced Matrix, N	/IS=Mas	ked Sand	d Grains.	² Location: PL	=Pore Lining, M=Matrix.
Hydric Soil	Indicators:						Indicators for	r Problematic Hydric Soils ³ :
Histosol			Polyvalue Belo	w Surfa	ce (S8) (I	LRR R,	2 cm Muc	k (A10) (LRR K, L, MLRA 149B)
	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					Below Surface (S8) (LRR K, L)
	l Layers (A5)	(0.44)	Loamy Mucky			R K, L)		Surface (S9) (LRR K, L)
	d Below Dark Surface ark Surface (A12)	(A11)	Loamy Gleyed Depleted Matri		F2)			ganese Masses (F12) (LRR K, L, R) Floodplain Soils (F19) (MLRA 149B)
	lucky Mineral (S1)		Redox Dark Su		:6)			odic (TA6) (MLRA 144A, 145, 149B)
	Sleyed Matrix (S4)		Depleted Dark		-			nt Material (F21)
	ledox (S5)		Redox Depress					llow Dark Surface (F22)
	Matrix (S6)		Marl (F10) (LR		,			plain in Remarks)
Dark Su	rface (S7)						<u>—</u>	
	, , , ,		etland hydrology mu	ıst be pr	esent, ur	nless dist	urbed or problematic.	
	Layer (if observed):							
Type:								
Depth (ii	nches):						Hydric Soil Present	t? Yes No_X_
Remarks:								
	m is revised from No 2015 Errata. (http://w							S Field Indicators of Hydric Soils,
	pit possible due to sol					3/11105 14/	2p2_051295.docx)	
•	•			J				



Upland G-P3-F



Upland G-P3-F- Soils

SITE PHOTOGRAPHS

Project/Site: CHPE - CP Rail - Fort Edward to Milton Section	City/County: Saratoga Sampling Date: 11/23/21
Applicant/Owner: CHPE	State: NY Sampling Point: GR-vv-wet
Investigator(s): KW, KS	Section, Township, Range: Moreau
Landform (hillside, terrace, etc.): Shoulders Local	relief (concave, convex, none): Convex Slope %: 0
Subregion (LRR or MLRA): LRR R, MLRA 144A Lat: 43°,15',12.00"N	Long: 73°,35',46.40"W Datum:
Soil Map Unit Name: Unadilla Very Fine Sandy Loam	NWI classification: PFO
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes X No (If no, explain in Remarks.)
Are Vegetation , Soil , or Hydrology significantly disturb	
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.) Vernal pool characteristics.	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
X Surface Water (A1) X Water-Stained Leaves (B	
High Water Table (A2) Aquatic Fauna (B13)	X Moss Trim Lines (B16)
X Saturation (A3) — Marl Deposits (B15)	Dry-Season Water Table (C2)
X Water Marks (B1) Hydrogen Sulfide Odor (· · · · · · · · · · · · · · · · · · ·
Sediment Deposits (B2) Oxidized Rhizospheres of Reduced Research	
Drift Deposits (B3) Presence of Reduced Iron Algal Mat or Crust (B4) Recent Iron Reduction in	
1 <u> </u>	• • • • • • • • • • • • • • • • • • • •
Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Thin Muck Surface (C7) Other (Explain in Remar	
Sparsely Vegetated Concave Surface (B8)	rks) Microtopographic Relief (D4) X FAC-Neutral Test (D5)
	A TAO-Neutral Test (D3)
Field Observations:	. 40
Surface Water Present? Yes X No Depth (inches):	
Water Table Present? Yes No X Depth (inches):	
Saturation Present? Yes X No Depth (inches): (includes capillary fringe)	: 6 Wetland Hydrology Present? Yes X No
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	
Describe Recorded Data (stream gauge, monitoring well, aerial priotos, pre	vious inspections), il avallable.
Remarks:	
Tremains.	

<u>Free Stratum</u> (Plot size:30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
. Acer rubrum	20	Yes	FAC	Newsham of Parada and On a dea
Fraxinus pennsylvanica	15	Yes	FACW	Number of Dominant Species That Are OBL, FACW, or FAC: 6 (A)
Quercus bicolor	15	Yes	FACW	
				Total Number of Dominant Species Across All Strata: 8 (B)
·				Percent of Dominant Species That Are OBL, FACW, or FAC: 75.0% (A/B
				Prevalence Index worksheet:
	50	=Total Cover		Total % Cover of: Multiply by:
apling/Shrub Stratum (Plot size: 15')				OBL species x 1 =
. Ilex verticillata	15	Yes	FACW	FACW species x 2 =
. Lonicera tatarica	10	Yes	FACU	FAC species x 3 =
. Londord tatanod		100	17100	FACU species x 4 =
·				UPL species x 5 =
·				<u> </u>
		·		
·		·		Prevalence Index = B/A =
·		-T-4-1 O		Hydrophytic Vegetation Indicators:
lank Otratana (Districts SI	25	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
lerb Stratum (Plot size: 5')				X 2 - Dominance Test is >50%
. Onoclea sensibilis	15	Yes	FACW	3 - Prevalence Index is ≤3.0¹
Toxicodendron radicans	10	Yes	FAC	4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
. Carex stricta	5	No	OBL	
·				Problematic Hydrophytic Vegetation ¹ (Explain)
·				¹ Indicators of hydric soil and wetland hydrology must
·				be present, unless disturbed or problematic.
•				Definitions of Vegetation Strata:
				Tree – Woody plants 3 in. (7.6 cm) or more in
				diameter at breast height (DBH), regardless of 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
	30	=Total Cover		of size, and woody plants less than 3.28 ft tall.
Voody Vine Stratum (Plot size:)				Woody vines – All woody vines greater than 3.28 ft in
. Parthenocissus quinquefolia	5	Yes	FACU	height.
•				
•				Hydrophytic Vegetation
				Present? Yes X No
	5	=Total Cover		

SOIL Sampling Point: GR-VV-Wet

		o the de				itor or c	onfirm the absence of	f indicators.)
Depth	Matrix	0/		K Featur		. 2	- .	
(inches)	Color (moist)	<u>%</u>	Color (moist)		Type ¹	Loc ²	Texture	Remarks
0-12	5YR 3/1	95	7.5YR 4/6	5	C	<u>M</u>	Mucky Loam/Clay	Prominent redox concentrations
								_
								-
								_
¹ Type: C=Ce	oncentration, D=Depl	etion, RN	/=Reduced Matrix, M	1S=Mas	ked Sand	d Grains.	² Location: P	L=Pore Lining, M=Matrix.
Hydric Soil			·					or Problematic Hydric Soils ³ :
Histosol	(A1)		Polyvalue Belo	w Surfa	ce (S8) (LRR R,	2 cm Mu	ick (A10) (LRR K, L, MLRA 149B)
Histic Ep	pipedon (A2)		MLRA 149B)			Coast Pi	rairie Redox (A16) (LRR K, L, R)
Black Hi	stic (A3)		Thin Dark Surfa	ace (S9)	(LRR R	, MLRA	149B) 5 cm Mu	icky Peat or Peat (S3) (LRR K, L, R)
Hydroge	n Sulfide (A4)		High Chroma S	ands (S	611) (LRI	R K, L)	Polyvalu	e Below Surface (S8) (LRR K, L)
Stratified	l Layers (A5)		Loamy Mucky I	Mineral	(F1) (LR I	R K, L)	Thin Dar	rk Surface (S9) (LRR K, L)
Depleted	d Below Dark Surface	(A11)	Loamy Gleyed	Matrix (F2)		Iron-Mar	nganese Masses (F12) (LRR K, L, R)
	ark Surface (A12)		Depleted Matrix	x (F3)			Piedmor	nt Floodplain Soils (F19) (MLRA 149B)
	lucky Mineral (S1)		X Redox Dark Su					podic (TA6) (MLRA 144A, 145, 149B)
	leyed Matrix (S4)		Depleted Dark					ent Material (F21)
	ledox (S5)		Redox Depress		8)			allow Dark Surface (F22)
	Matrix (S6)		Marl (F10) (LR	R K, L)			Other (E	xplain in Remarks)
Dark Su	rface (S7)							
³ Indicators o	f bydrophytic vogotati	on and u	otland budralagy my	ot ha ne	coont u	alooo dia	turbed or problematic	
	Layer (if observed):	on and v	retiand hydrology mic	ist be pi	esent, ui	iless dis	turbed or problematic.	
Type:	Layer (ii observed).							
•	a chaol:						Undria Cail Dragge	ot2 Yea Y No
Depth (ii	iches).						Hydric Soil Presei	nt? Yes <u>X</u> No
Remarks:	i i	41 4	l and Nambaad Davi				0.0 to in about a the NDO	CO Field Indicators of Health Colle
	m is revised πom ivor 2015 Errata. (http://w							CS Field Indicators of Hydric Soils,
			as a a i g s m i m s m s a r				,	



Wetland G-R-VV- View facing North



Wetland G-R-VV- Soils

SITE PHOTOGRAPHS

Project/Site: CHPE - CP Rail - Fort Edward to Milton Section	City/County: Saratoga Sampling Date: 11/23/21
Applicant/Owner: CHPE	State: NY Sampling Point: GR-VV-Up
Investigator(s): KW, KS	Section, Township, Range: Moreau
- ' '	relief (concave, convex, none): Convex Slope %: 15
Subregion (LRR or MLRA): LRR R, MLRA 144A Lat: 43°,15',13.46"N	Long: 73°,35',46.40"W Datum:
Soil Map Unit Name: Unadilla Very Fine Sandy Loam	NWI classification: None
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:
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply) Surface Water (A1) Water-Stained Leaves (Surface Soil Cracks (B6) B9) Drainage Patterns (B10)
High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)
Saturation (A3) Advantage (A2) Marl Deposits (B15)	Dry-Season Water Table (C2)
Water Marks (B1)	
Sediment Deposits (B2) Oxidized Rhizospheres	· · · · · · · · · · · · · · · · · · ·
Drift Deposits (B3) Presence of Reduced Ir	
Algal Mat or Crust (B4) Recent Iron Reduction is	
Iron Deposits (B5) Thin Muck Surface (C7)	
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remains)	
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:	

Other (Distriction and Col.)	Absolute	Dominant	Indicator	Barrier and Tark weedledoods
ree Stratum (Plot size: 30')	% Cover	Species?	Status	Dominance Test worksheet:
Acer rubrum	5	Yes	FAC	Number of Dominant Species
Fraxinus americana	10	Yes	FACU	That Are OBL, FACW, or FAC:(A)
Malus coronaria	3	No No	UPL	Total Number of Dominant
Pinus strobus	5	Yes	FACU	Species Across All Strata: 6 (B)
				Percent of Dominant Species That Are OBL, FACW, or FAC: 33.3% (A/B
	-			Prevalence Index worksheet:
	23	=Total Cover		Total % Cover of: Multiply by:
apling/Shrub Stratum (Plot size: 15')			OBL species x 1 =
Lonicera tatarica	, 5	Yes	FACU	FACW species x 2 =
				FAC species x 3 =
				FACU species x 4 =
				UPL species x 5 =
				Column Totals: (A) (E
				Prevalence Index = B/A =
	· ·			Hydrophytic Vegetation Indicators:
	· ·	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
erb Stratum (Plot size: 5')				2 - Dominance Test is >50%
				3 - Prevalence Index is ≤3.0 ¹
				4 - Morphological Adaptations ¹ (Provide supporti
	· ·			data in Remarks or on a separate sheet)
				Problematic Hydrophytic Vegetation ¹ (Explain)
·				¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
				Definitions of Vegetation Strata:
				Tree – Woody plants 3 in. (7.6 cm) or more in
	· ——			diameter at breast height (DBH), regardless of height
). 1.	· <u></u>			Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
2.				Harb. All barbassas (non usadu) relanta remardia
		=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: 15')			Manada da
Vitis riparia	5	Yes	FAC	Woody vines – All woody vines greater than 3.28 ft i height.
	- <u></u> 5	Yes	FACU	<u> </u>
Parthenocissus quinquefolia	·			Hydrophytic
· ·				Vegetation Present? Yes No X
	10	=Total Cover		Present? Yes No X

SOIL Sampling Point: GR-VV-Up

(inches) 0-12	Matrix		Redox	k Featur	es				
0-12	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remar	ks
	10YR 4/4	100					Loamy/Clayey		
¹ Type: C=Co	ncentration, D=Deple	tion, RM	=Reduced Matrix, M	1S=Mas	ked Sand	Grains.	² Location: PL=Pore	Lining, M=Ma	trix.
Hydric Soil Ir	ndicators:						Indicators for Prob	lematic Hydri	c Soils³:
Histosol ((A1)		Polyvalue Belo	w Surfa	ce (S8) (L	.RR R,	2 cm Muck (A10	0) (LRR K, L, N	/ILRA 149B)
Histic Epi	ipedon (A2)		MLRA 149B)			Coast Prairie R	edox (A16) (LF	RR K, L, R)
Black Hist			Thin Dark Surfa						
	Sulfide (A4)	•	High Chroma S				Polyvalue Belov		
	Layers (A5)	(6.4.4)	Loamy Mucky I			R K, L)	Thin Dark Surfa		
	Below Dark Surface	(A11)	Loamy Gleyed		F2)		Iron-Manganes		
	rk Surface (A12) ucky Mineral (S1)	•	Depleted Matrix Redox Dark Su		6)		Piedmont Flood Mesic Spodic (1		
	eyed Matrix (S4)		Depleted Dark				Red Parent Mat		14A, 143, 143D)
Sandy Re		,	Redox Depress				Very Shallow D		22)
	Matrix (S6)		Marl (F10) (LR		-,		Other (Explain i		,
Dark Surf		•		·				•	
	hydrophytic vegetation	on and w	ətland hydrology mu	ıst be pr	esent, un	less dist	urbed or problematic.		
Restrictive L	ayer (if observed):								
Type:	ches):						Hydric Soil Present?	Yes	No X
Type: Depth (inc									
Type: Depth (inc									
Type: Depth (inc									
Type: Depth (inc									
Type: Depth (inc									
Type: Depth (inc									
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Type: Depth (inc									
Type: Depth (inc									
Type: Depth (inc									



Upland G-R-VV- View facing West



Upland G-R-VV- View facing North

SITE PHOTOGRAPHS

Project/Site: CHPE - Package 3 - South of Air Park - Corn 1 - MP 136.0	City/County: Saratoga Sampling Date: 10/12/22
Applicant/Owner: CHPE	State: NY Sampling Point: G-P3-G_WET
Investigator(s): KW, KS	Section, Township, Range: Gaansvort
Landform (hillside, terrace, etc.): Shoulder Local	relief (concave, convex, none): Convex Slope %: 0
Subregion (LRR or MLRA): LRR R, MLRA 144A Lat: 43°,15',14.13"N	Long: 73°,35',34.80"W Datum:
Soil Map Unit Name: Unadilla Very Fine Sandy Loam	NWI classification: SS
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes X No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly disturb	
Are Vegetation, Soil, or Hydrology naturally problems	·
SUMMARY OF FINDINGS – Attach site map showing sam	
Hydrophytic Vegetation Present? Yes 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.) Partially within a harvested corn 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)
X 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 (
Sediment Deposits (B2) Oxidized Rhizospheres of Reduced by Processes of Reduced by	
Drift Deposits (B3) Presence of Reduced Iro Algal Mat or Crust (B4) Recent Iron Reduction ir	
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	
Sparsely Vegetated Concave Surface (B8)	X FAC-Neutral Test (D5)
Field Observations:	<u></u>
Surface Water Present? Yes X No Depth (inches):	
Water Table Present? Yes No X Depth (inches):	
Saturation Present? Yes X No Depth (inches):	
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	evious inspections), if available:
Remarks:	

Tree Stratum (Plot size:30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. Acer saccharinum	20	Yes	FACW	Number of Dominant Species
2. Acer rubrum	10	Yes	FAC	That Are OBL, FACW, or FAC: 5 (A)
3. Acer negundo	5	No	FAC	Total Niverbox of Dominant
i				Total Number of Dominant Species Across All Strata: 5 (B)
5.				Breach of Breach and On a size
5.				Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
7.				Prevalence Index worksheet:
	35	=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15')		•		OBL species x 1 =
. Cornus amomum	20	Yes	FACW	FACW species x 2 =
Lonicera tatarica	5	No	FACU	FAC species x 3 =
3. Viburnum lentago	5	No	FAC	FACU species x 4 =
. Cornus amomum	5	No	FACW	UPL species x 5 =
5.				Column Totals: (A) (B)
3.				Prevalence Index = B/A =
·	-	·		Hydrophytic Vegetation Indicators:
	35	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5')		' Total Gover		X 2 - Dominance Test is >50%
. Lythrum salicaria	20	Yes	OBL	3 - Prevalence Index is ≤3.0¹
2. Typha latifolia	10	Yes	OBL	4 - Morphological Adaptations ¹ (Provide supportin
3. Lysimachia nummularia	5	No	FACW	data in Remarks or on a separate sheet)
. Persicaria arifolia	5	No No	FACU	Problematic Hydrophytic Vegetation ¹ (Explain)
5. Juncus effusus	5	No No	OBL	Problematic Hydrophytic Vegetation (Explain)
	5		OBL	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
6. Epilobium coloratum		<u>No</u>	OBL	
		· ——		Definitions of Vegetation Strata:
3.		· ——		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.				Herb – All herbaceous (non-woody) plants, regardless
	50	=Total Cover		of size, and woody plants less than 3.28 ft tall.
Noody Vine Stratum (Plot size: 15')				Woody vines – All woody vines greater than 3.28 ft in
1				height.
2				Hydrophytic
3				Vegetation
l				Present?
		=Total Cover		

		o the de				tor or co	onfirm the absence o	f indicators.)
Depth	Matrix	0/		r Featur		1 - 2	T	Damanta
(inches)	Color (moist)	<u>%</u>	Color (moist)		Type ¹	Loc ²	Texture	Remarks
0-6	10YR 3/2	97	10YR 4/6	3	<u>C</u>	<u>M</u>	Loamy/Clayey	Prominent redox concentrations
6-14	10YR 3/2	95	10YR 4/6	5	<u> </u>	<u>M</u>	Loamy/Clayey	Prominent redox concentrations
					_	_		
		_			_	_		
¹ Type: C=C	oncentration, D=Depl	etion RM	 1=Reduced Matrix M	IS=Mas	ked Sand	Grains	² I ocation: P	L=Pore Lining, M=Matrix.
Hydric Soil Histosol Histic Ep Black Hi Hydroge Stratified Depleted Thick Da Sandy M Sandy G Stripped Dark Su	Indicators:	· (A11)	Polyvalue Belor MLRA 149B) Thin Dark Surfa High Chroma S Loamy Mucky N Loamy Gleyed Depleted Matrix X Redox Dark Su Depleted Dark Redox Depress Marl (F10) (LRI	w Surfar ace (S9) ands (S Mineral I Matrix (k (F3) rface (F Surface sions (Fa R K, L)	ce (S8) (I (LRR R (S11) (LRI (F1) (LRI (F2) (F6) (F7)	LRR R, , MLRA 1 R K, L) R K, L)	Indicators for 2 cm Mu ? Coast Pr 149B) 5 cm Mu Polyvalu Thin Dat Iron-Mar Piedmor ? Mesic S Red Par Very Sha	por Problematic Hydric Soils ³ : ack (A10) (LRR K, L, MLRA 149B) rairie Redox (A16) (LRR K, L, R) acky Peat or Peat (S3) (LRR K, L, R) ace Below Surface (S8) (LRR K, L) ack Surface (S9) (LRR K, L) anganese Masses (F12) (LRR K, L, R) at Floodplain Soils (F19) (MLRA 149B) acodic (TA6) (MLRA 144A, 145, 149B) allow Dark Surface (F22) axplain in Remarks)
Type: Depth (i			<u> </u>				Hydric Soil Prese	nt? Yes X No
Version 7.0,	rm is revised from Nor 2015 Errata. (http://w bit possible due to soli	ww.nrcs.	usda.gov/Internet/FS	E_DOC	UMENT			CS Field Indicators of Hydric Soils,



Wetland G-P3-G

Wetland G-P3-G- Soils

Segment 4 and 5 – Package 3

SITE PHOTOGRAPHS

Project/Site: CHPE - Package 3 - S. of Air Park - Corr	1 - MP 136.0 City/Cour	ty: Saratoga	Sampling Date: 10/12/22				
Applicant/Owner: CHPE		State: NY	Sampling Point: G-P3-G_UP				
Investigator(s): KW, KS	(Section, Township, Range: Gaansv	ort				
Landform (hillside, terrace, etc.): Shoulder		ave, convex, none): Convex	Slope %: 5				
Subregion (LRR or MLRA): LRR R, MLRA 144A Lat		Long: 73°,35',43.80"W	 Datum:				
Soil Map Unit Name: Unadilla Very Fine Sandy Loam		NWI classification:					
Are climatic / hydrologic conditions on the site typical for	r this time of year?		explain in Remarks.)				
Are Vegetation, Soil, or Hydrology	·	Are "Normal Circumstances" pres					
Are Vegetation , Soil , or Hydrology		(If needed, explain any answers in	n Remarks.)				
SUMMARY OF FINDINGS – Attach site ma	_	int locations, transects, im	portant features, etc.				
Hydrophytic Vegetation Present? Yes	No X Is the S	ampled Area					
Hydric Soil Present? Yes		a Wetland? Yes	No X				
Wetland Hydrology Present? Yes		ptional Wetland Site ID:					
HYDROLOGY							
Wetland Hydrology Indicators:	-11.414	· · · · · · · · · · · · · · · · · · ·	minimum of two required)				
Primary Indicators (minimum of one is required; check		Surface Soil Crack					
	er-Stained Leaves (B9) atic Fauna (B13)	99) Drainage Patterns (B10) Moss Trim Lines (B16)					
	I Deposits (B15)	Dry-Season Water Table (C2)					
	rogen Sulfide Odor (C1)	Crayfish Burrows (C8)					
1 — — — · · · · · · · · · · · · · · · ·	dized Rhizospheres on Living R						
	sence of Reduced Iron (C4)	· · · · · · · · · · · · · · · · · · ·	,				
<u> </u>	ent Iron Reduction in Tilled Soi	,					
	n Muck Surface (C7)	Shallow Aquitard (D3)					
<u> </u>	er (Explain in Remarks)						
Sparsely Vegetated Concave Surface (B8)	or (Explain in Homano)	FAC-Neutral Test (D5)					
Field Observations:		<u></u>	(23)				
	Depth (inches):						
Water Table Present? Yes No X Saturation Present? Yes No X		Wetland Hydrology Present?	Yes No X				
(includes capillary fringe)	Deptir (iriones).	Wettand Trydrology Fresent:	163NOX				
Describe Recorded Data (stream gauge, monitoring we	ell aerial photos, previous inspe	Lections) if available:					
Jesoniae riceeraea zata (etream gaage, membering m	on, aonar priotos, promoso mop	, a.					
Remarks:							

T. O (D	Absolute	Dominant	Indicator	
Tree Stratum (Plot size: 30')	% Cover	Species?	Status	Dominance Test worksheet:
1. Fraxinus americana	10	Yes	FACU	Number of Dominant Species
2. Acer negundo	10	Yes	FAC	That Are OBL, FACW, or FAC: 2 (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: 28.6% (A/B)
7				Prevalence Index worksheet:
	20	=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15')				OBL species x 1 =
1. Rhus typhina	15	Yes	UPL	FACW species x 2 =
2. Lonicera tatarica	15	Yes	FACU	FAC species x 3 =
3. Rhamnus cathartica	5	No	FAC	FACU species x 4 =
4.				UPL species x 5 =
5.				Column Totals: (A) (B)
				Prevalence Index = B/A =
7.				Hydrophytic Vegetation Indicators:
· ·	35	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5')		Total Gover		2 - Dominance Test is >50%
1.				3 - Prevalence Index is ≤3.0 ¹
	10	Vac	LIDI	4 - Morphological Adaptations ¹ (Provide supporting
2. Centaurea stoebe	10	Yes	UPL	data in Remarks or on a separate sheet)
3. Daucus carota	5	Yes	UPL	
4. Lythrum salicaria	5	Yes	OBL	Problematic Hydrophytic Vegetation ¹ (Explain)
5				¹ Indicators of hydric soil and wetland hydrology must
6.				be present, unless disturbed or problematic.
7				Definitions of Vegetation Strata:
8.				Tree – Woody plants 3 in. (7.6 cm) or more in
9.				diameter at breast height (DBH), regardless of height.
10				Sapling/shrub – Woody plants less than 3 in. DBH
11				and greater than or equal to 3.28 ft (1 m) tall.
12				Herb – All herbaceous (non-woody) plants, regardless
	20	=Total Cover		of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size: 15')				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 separ	ate sheet)	•		
Tremarks. (moldde prote nambers here of on a separ	ate sheet.)			

Sampling Point: __G-P3-G_UP

SOIL Sampling Point G-P3-G_UP

		to the de				tor or co	onfirm the absence of inc	dicators.)
Depth	Matrix	0/		x Featur		1 - 2	T 4	Demonde
(inches)	Color (moist)	%	Color (moist)	<u>%</u>	Type ¹	Loc ²	Texture	Remarks
0-12	7.5YR 4/3	100					Loamy/Clayey	
								_
¹ Type: C=Co	oncentration, D=Depl	etion RN	M=Reduced Matrix M	JS=Mas	ked Sand	I Grains	² Location: PL =F	Pore Lining, M=Matrix.
Hydric Soil		0	T TOUGOGO MALIX, I	vio ivido	Rou Guile	· Oranio.		Problematic Hydric Soils ³ :
Histosol			Polyvalue Belo	w Surfa	ce (S8) (I	RR R		(A10) (LRR K, L, MLRA 149B)
	pipedon (A2)		MLRA 149B		00 (00) (ie Redox (A16) (LRR K, L, R)
Black Hi			Thin Dark Surf	•	(LRR R	MLRA 1		Peat or Peat (S3) (LRR K, L, R)
	n Sulfide (A4)		High Chroma S		-			selow Surface (S8) (LRR K, L)
	l Layers (A5)		Loamy Mucky					Surface (S9) (LRR K, L)
	d Below Dark Surface	Δ11)	Loamy Gleyed			· · · · · · · · · · · · · · · · · · ·		nese Masses (F12) (LRR K, L, R)
	ark Surface (A12)	, (, (, , , ,	Depleted Matri		,			loodplain Soils (F19) (MLRA 149B)
	lucky Mineral (S1)		Redox Dark St		6)			lic (TA6) (MLRA 144A, 145, 149B)
	Sleyed Matrix (S4)		Depleted Dark		-			Material (F21)
	ledox (S5)		Redox Depres					w Dark Surface (F22)
	Matrix (S6)		Marl (F10) (LR		0)			ain in Remarks)
	rface (S7)			, =/				am in remaine)
Bank Bank	11400 (01)							
³ Indicators of	f hydrophytic vegetat	ion and w	etland hydrology mi	ust be pr	esent. ur	nless dist	urbed or problematic.	
	Layer (if observed):		onana nyanenegy mi	р.			and an problemation	
Type:	, (,.							
•	achae).						Uvdvia Cail Dvaaant?	Van No V
Depth (ir	iches).						Hydric Soil Present?	Yes No <u>X</u>
Remarks:								
								Field Indicators of Hydric Soils,
	2015 Errata. (http://w oit possible due to sol					5/nrcs 14.	2p2_051293.docx)	
110 0011 1001 p	ni poddibio ddo to ddi	ia capon	ato or coppie and an	ougo ma	itoriai.			



Upland G-P3-G



Upland G-P3-G- Soils

SITE PHOTOGRAPHS

Project/Site: CHPE - Package 3 - South of Air Park, Corn 2 - MP 136.1	City/County: Saratoga Sampling Date: 10/12/22					
Applicant/Owner: CHPE	State: NY Sampling Point: G-P3-H_WET					
Investigator(s): KW, KS	Section, Township, Range: Gaansvort					
• ` ` `	relief (concave, convex, none): Convex Slope %: 0					
Subregion (LRR or MLRA): LRR R, MLRA 144A Lat: 43°,15',11.70"N	Long: 73°,35',44.97"W Datum:					
Soil Map Unit Name: Unadilla Very Fine Sandy Loam	NWI classification: PFO					
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes X No (If no, explain in Remarks.)					
Are Vegetation, Soil, or Hydrology significantly distur						
Are Vegetation, Soil, or Hydrology naturally problems						
						
SUMMARY OF FINDINGS – Attach site map showing sam	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:					
Remarks: (Explain alternative procedures here or in a separate report.)						
Forest/scrub out into a harvested corn 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)					
X Surface Water (A1) X Water-Stained Leaves ((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 (
Sediment Deposits (B2) Oxidized Rhizospheres						
Drift Deposits (B3) Presence of Reduced In						
Algal Mat or Crust (B4) Recent Iron Reduction in	• • • • • • • • • • • • • • • • • • • •					
Iron Deposits (B5) Thin Muck Surface (C7)	Shallow Aquitard (D3)					
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remar						
Sparsely Vegetated Concave Surface (B8)	X FAC-Neutral Test (D5)					
Field Observations:						
Surface Water Present? Yes X No Depth (inches)						
Water Table Present? Yes No X Depth (inches) Saturation Present? Yes X No Depth (inches)						
(includes capillary fringe)	: 6 Wetland Hydrology Present? Yes X No					
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	evious inspections). if available:					
3 3 7 1 71	,,					
Remarks:						

<u>Tree Stratum</u> (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
Fraxinus pennsylvanica	15	Yes	FACW	
Ulmus americana	20	Yes	FACW	Number of Dominant Species That Are OBL, FACW, or FAC: 8 (A)
3. Acer negundo	10	Yes	FAC	That Ale OBE, I AGW, OF I AG.
4. Acer negundo	10	165	FAC	Total Number of Dominant Species Across All Strata: 8 (B)
5.6.				Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
7.				Prevalence Index worksheet:
	45	=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15')				OBL species x 1 =
1. Cornus amomum	15	Yes	FACW	FACW species x 2 =
Cornus racemosa	10	Yes	FAC	FAC species x 3 =
3. Lonicera tatarica	5	No	FACU	FACU species x 4 =
4.				UPL species x 5 =
5.				Column Totals: (A) (B)
				Prevalence Index = B/A =
7				Hydrophytic Vegetation Indicators:
<i>'</i>	30	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5')		rotal Gover		X 2 - Dominance Test is >50%
Lythrum salicaria	10	Yes	OBL	3 - Prevalence Index is ≤3.0 ¹
Phragmites australis	10	Yes	FACW	4 - Morphological Adaptations ¹ (Provide supporting
Lysimachia nummularia	10	Yes	FACW	data in Remarks or on a separate sheet)
4.	10	163	TACW	Problematic Hydrophytic Vegetation ¹ (Explain)
5.				
6.				¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
7.				Definitions of Vegetation Strata:
8.				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
	30	=Total Cover		of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size: 15')				Woody vines – All woody vines greater than 3.28 ft in
1.				height.
2.				-
3.				Hydrophytic
4.				Vegetation Present? Yes X No
		=Total Cover		
Remarks: (Include photo numbers here or on a separ				
Tremarks. (include proto numbers here of on a separ	ate sneet.)			

Sampling Point: G-P3-H_WET

Profile Desc Depth	ription: (Describe t Matrix	o the de		ıment tl x Featur		itor or co	onfirm the absence o	f indicators.)	
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks	
0-7	10YR 3/2	97	10YR 4/6	3	С	М	Loamy/Clayey	Prominent redox concentrations	
7-14	10YR 3/1	97	10YR 4/6	3	С	<u>M</u>	Loamy/Clayey	Prominent redox concentrations	
		<u> </u>		<u>-</u>					
		<u> </u>		<u> </u>					
				<u> </u>	<u> </u>	<u> </u>			
-	ncentration, D=Depl	etion, RN	1=Reduced Matrix, N	/IS=Mas	ked Sand	d Grains.		PL=Pore Lining, M=Matrix.	
Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7)			Polyvalue Belo MLRA 149B Thin Dark Surf High Chroma S Loamy Mucky Loamy Gleyed Depleted Matri X Redox Dark Su Depleted Dark Redox Depress Marl (F10) (LR) ace (S9) Sands (S Mineral Matrix (x (F3) urface (F Surface sions (Fi R K, L)	(LRR R 611) (LRI (F1) (LRI F2) 66) (F7) 8)	, MLRA 1 R K, L) R K, L)	Indicators for Problematic Hydric Soils ³ : 2 cm Muck (A10) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) 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) Red Parent Material (F21) Very Shallow Dark Surface (F22) Other (Explain in Remarks)		
		on and w	vetland hydrology mu	ıst be pr	esent, ur	nless dist	urbed or problematic.		
Type:	ayer (if observed):								
Depth (in	ches):						Hydric Soil Prese	nt? Yes X No	
Version 7.0, 2	n is revised from Noi 2015 Errata. (http://w it possible due to sol	ww.nrcs.	usda.gov/Internet/F	SE_DOC	CUMENT			CS Field Indicators of Hydric Soils,	



Wetland G-P3-H

Wetland G-P3-H- Soils

Segment 4 and 5 – Package 3

SITE PHOTOGRAPHS

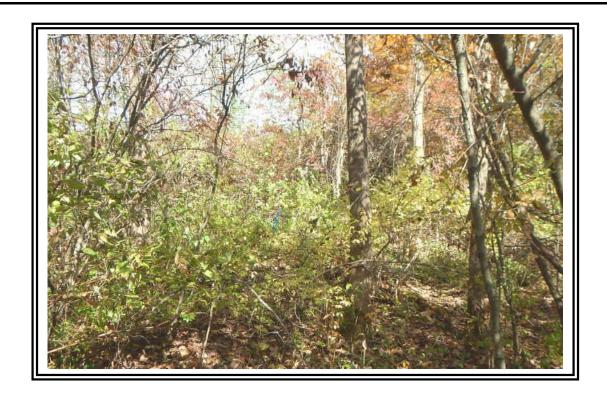
Project/Site: CHPE - Package 3 - South of Air Park, Corn 2 - MP 136.1	City/County: Saratoga Sampling Date: 10/12/22					
Applicant/Owner: CHPE	State: NY Sampling Point: G-P3-H_UP					
Investigator(s): KW, KS	Section, Township, Range: Gaansvort					
Landform (hillside, terrace, etc.): Shoulder Loc	cal relief (concave, convex, none): Convex Slope %: 5					
Subregion (LRR or MLRA): LRR R, MLRA 144A Lat: 43°,15',11.70"N	N Long: 73°,35',44.97"W Datum:					
Soil Map Unit Name: Unadilla Very Fine Sandy Loam	NWI classification: None					
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 dis	· · ·					
Are Vegetation, Soil, or Hydrology naturally proble						
	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.)						
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 Leave	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 Od						
Sediment Deposits (B2) Oxidized Rhizosphere	es on Living Roots (C3) Saturation Visible on Aerial Imagery (C9)					
Drift Deposits (B3) Presence of Reduced	ron (C4) Stunted or Stressed Plants (D1)					
Algal Mat or Crust (B4)Recent Iron Reductio	in Tilled Soils (C6) Geomorphic Position (D2)					
Iron Deposits (B5) Thin Muck Surface (C) Shallow Aquitard (D3)					
Inundation Visible on Aerial Imagery (B7) Other (Explain in Rer						
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,	previous inspections), if available:					
Remarks:						

1.	Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
2. Frazinus americana			· ——		
3.					
1 10 10 10 10 10 10 10	2 Assr seedbarum				
Percent of Dominant Species That Are OBL, FACW, or FAC: 14.3% (A/B)				17.00	
Percent of Dominant Species			· ——		·, ` /
	6		· ——		
Total % Cover of: Multiply by: OBL species	7		·		`` `
Sapling/Shrub Stratum (Plot size: 15") 1. Rhus typhina 15 Yes			=Total Cover		
1. Rhus typhina	Sapling/Shrub Stratum (Plot size: 15')				
2. Lonicera tatarica 15 Yes FACU FAC species x 3 =		15	Yes	UPL	
FACU species		15	Yes	FACU	
4	3.				· — —
Column Totals:	4.				
Prevalence Index = B/A = Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0 to 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0 to 4 - Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet) 4 - Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet) 4 - Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet) 4 - Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet) 4 - Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet) 4 - Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet) 4 - Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet) 4 - Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet) 4 - Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet) 4 - Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet) 4 - Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet) 4 - Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet) 4 - Morphological Adaptat	5.				Column Totals: (A) (B)
Hydrophytic Vegetation Indicators: 30	6				
Definition Company	7.				Hydrophytic Vegetation Indicators:
1.		30	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
2. Fragaria virginiana 3. Daucus carota 4. Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) 4. Solidago altissima 10 Yes FACU Problematic Hydrophytic Vegetation¹ (Explain) 5. Rubus occidentalis 5 No UPL 6. Definitions of hydric soil and wetland hydrology must be present, unless disturbed or problematic. 7. Definitions of Vegetation Strata: 8. Definitions of Vegetation Strata: 10. Sapling/shrub – 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 of size, and woody plants less than 3.28 ft tall. 13. Woody Vine Stratum (Plot size: 15') 14. Hydrophytic Vegetation 15. No UPL 16. Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. 17. Herb – All woody vines greater than 3.28 ft in height. 18. Hydrophytic Vegetation 19. Hydrophytic Vegetation 19. Total Cover	Herb Stratum (Plot size: 5')		•		2 - Dominance Test is >50%
Daucus carota 10 Yes UPL data in Remarks or on a separate sheet	1.				3 - Prevalence Index is ≤3.0 ¹
4. Solidago altissima 10 Yes FACU Problematic Hydrophytic Vegetation 1 (Explain) 7. Rubus occidentalis 5 No UPL 7. Definitions of Vegetation Strata: 8. Definitions of Vegetation Strata: 7. 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. Sapling/shrub — Woody plants less than 3.28 ft tall. Woody Vine Stratum (Plot size: 15') 1. Woody Vines — All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation Yes — No X Hydrophytic Vegetation Present? Yes No X	2. Fragaria virginiana	5	No	FACU	4 - Morphological Adaptations ¹ (Provide supporting
5. Rubus occidentalis 6. Tindicators 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 at breast height (DBH), regardless of height. 9. Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. 112. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody Vine Stratum (Plot size: 15') 1. Woody vines – All woody vines greater than 3.28 ft in height. 4. Hydrophytic Vegetation Present? Yes No X	3. Daucus carota	10	Yes	UPL	data in Remarks or on a separate sheet)
Tindicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.	4. Solidago altissima	10	Yes	FACU	Problematic Hydrophytic Vegetation ¹ (Explain)
be present, unless disturbed or problematic. Definitions of Vegetation Strata: Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody Vine Stratum (Plot size: 15') Woody vines – All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation Present? Yes No X	5. Rubus occidentalis	5	No	UPL	1 Indicators of hydric coil and watland hydrology must
Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody Vine Stratum (Plot size: 15') Woody vines – All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation Present? Yes No X	6.		· <u></u>		
8.	7.		· <u></u>		Definitions of Vegetation Strata:
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: 15') 1.	Q				Tree – Woody plants 3 in (7.6 cm) or more in
Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody Vine Stratum (Plot size: 15') Woody vines – All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation Present? Yes No X	9.				
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: 15') 1.	10.				Sanling/shruh – Woody plants less than 3 in DBH
Section Stratum Stra	11.				
30 =Total Cover of size, and woody plants less than 3.28 ft tall.	12				Harh — All herhaceous (non-woody) plants regardless
1		30	=Total Cover		
1. height. 2. Hydrophytic Vegetation Vegetation Present? Yes No _X	Woody Vine Stratum (Plot size:15')				Woody vines – All woody vines greater than 3.28 ft in
3 Hydrophytic Vegetation Present? Yes No _X	1.				
3	2.				
4 =Total Cover Present? Yes No _X	3.				
	4.				
Remarks: (Include photo numbers here or on a separate sheet.)			=Total Cover		
	Remarks: (Include photo numbers here or on a separ	ate sheet.)			

Sampling Point: G-P3-H_UP

SOIL Sampling Point G-P3-H_UP

		the dep				tor or co	onfirm the absence of inc	dicators.)
Depth (inches)	Matrix	%		x Featur	es Type ¹	Loc ²	Toyturo	Domarka
(inches)	Color (moist)	70	Color (moist)	%	Туре	LOC	Texture	Remarks
0-14	10YR 4/3	100					Loamy/Clayey	
								_
¹Type: C=Co	ncentration, D=Deple	tion RM:	=Reduced Matrix N	/S=Mas	ked Sand	Grains	² I ocation: PI =P	Pore Lining, M=Matrix.
Hydric Soil I	•	1011, 11111	Ttoddood Watist, IV	io inac	nou ounc	· Oranio.		Problematic Hydric Soils ³ :
Histosol			Polyvalue Belo	w Surfa	ce (S8) (I	LRR R,		(A10) (LRR K, L, MLRA 149B)
	ipedon (A2)	•			(- / (,		e Redox (A16) (LRR K, L, R)
Black His			Thin Dark Surfa	•	(LRR R	, MLRA 1		Peat or Peat (S3) (LRR K, L, R)
Hydrogei	n Sulfide (A4)	-	High Chroma S	Sands (S	311) (LRF	R K, L)	Polyvalue Be	elow Surface (S8) (LRR K, L)
Stratified	Layers (A5)		Loamy Mucky I	Mineral	(F1) (LRI	R K, L)	Thin Dark S	urface (S9) (LRR K, L)
Depleted	Below Dark Surface	(A11)	Loamy Gleyed	Matrix (F2)		Iron-Mangar	nese Masses (F12) (LRR K, L, R)
Thick Da	rk Surface (A12)		Depleted Matri	x (F3)			Piedmont Fl	oodplain Soils (F19) (MLRA 149B)
Sandy M	ucky Mineral (S1)		Redox Dark Su	ırface (F	6)		Mesic Spodi	ic (TA6) (MLRA 144A, 145, 149B)
Sandy G	eyed Matrix (S4)		Depleted Dark	Surface	(F7)		Red Parent	Material (F21)
Sandy R	edox (S5)		Redox Depress		8)			w Dark Surface (F22)
	Matrix (S6)	-	Marl (F10) (LR	RK, L)			Other (Expla	ain in Remarks)
Dark Sur	face (S7)							
31	h		. H I b I	4 1				
	hydrophytic vegetatio	on and we	itiand nydrology mu	ıst be pr	esent, ur	iless dist	urbed or problematic.	
Type:	ayer (if observed):							
-								
Depth (in	ches):						Hydric Soil Present?	Yes No _X
Version 7.0, 2	n is revised from Nort 2015 Errata. (http://wv it possible due to solid	ww.nrcs.u	ısda.gov/Internet/FS	SE_DOC	CUMENT			Field Indicators of Hydric Soils,



Upland G-P3-H



Upland G-P3-H- Soils

SITE PHOTOGRAPHS

Project/Site: CHPE - CP Rail - Fort Edward to Milton Section	City/County: Saratoga Sampling Date: 11/23/21					
Applicant/Owner: CHPE	State: NY Sampling Point: GR-ww-wet					
Investigator(s): KW, KS	Section, Township, Range: Moreau					
- ' '	relief (concave, convex, none): Convex Slope %: 0					
Subregion (LRR or MLRA): LRR R, MLRA 144A Lat: 43°,15',12.00"N	Long: 73°,35',47.10"W Datum:					
Soil Map Unit Name: Unadilla Very Fine Sandy Loam	NWI classification: PFO					
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes X No (If no, explain in Remarks.)					
Are Vegetation , Soil , or Hydrology significantly disturb						
Are Vegetation, Soil, or Hydrologynaturally problema	tic? (If needed, explain any answers in Remarks.)					
SUMMARY OF FINDINGS – Attach site map showing samp	pling point locations, transects, important features, etc.					
Hydrophytic Vegetation Present? Yes X No	Is the Sampled Area					
Hydric Soil Present? Yes X No	within a Wetland? Yes X No					
Wetland Hydrology Present? Yes X No	If yes, optional Wetland Site ID:					
HYDROLOGY						
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)					
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)					
Surface Water (A1) X Water-Stained Leaves (E						
High Water Table (A2) Aquatic Fauna (B13) And Barasita (D15)	Moss Trim Lines (B16)					
X Saturation (A3)Marl Deposits (B15)	Dry-Season Water Table (C2)					
Water Marks (B1) — Hydrogen Sulfide Odor (Control of the Sediment Deposits (B2) — Oxidized Rhizospheres of the Sediment Deposits (B2)	· · · · · · · · · · · · · · · · · · ·					
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:	<u>X</u> 1716 Head 1881 (26)					
Surface Water Present? Yes No X Depth (inches):						
Water Table Present? Yes No X Depth (inches): Depth (inches):						
Saturation Present? Yes X No Depth (inches):						
(includes capillary fringe)	Wouldn't Hydrology Frosont: 100 NO					
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	vious inspections), if available:					
	, ,,					
Remarks:						

Tree Otreture (Districts 201	Absolute	Dominant	Indicator	Bandana Tarkanakakak
Tree Stratum (Plot size: 30')	% Cover	Species?	Status	Dominance Test worksheet:
1. Acer rubrum	25	Yes	FAC	Number of Dominant Species
2. Fraxinus pennsylvanica	15	Yes	FACW	That Are OBL, FACW, or FAC: 8 (A)
3. Populus deltoides4.	15	Yes	FAC	Total Number of Dominant Species Across All Strata: 9 (B)
5				Percent of Dominant Species
6				That Are OBL, FACW, or FAC: 88.9% (A/B)
7				Prevalence Index worksheet:
	55	=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size:)				OBL species x 1 =
1. Ilex verticillata	15	Yes	FACW	FACW species x 2 =
2. Sambucus nigra	5	No	FACW	FAC species x 3 =
3. Lonicera tatarica	10	Yes	FACU	FACU species x 4 =
4. Alnus incana	5	No	FACW	UPL species x 5 =
5. Cornus sericea	5	No	FACW	Column Totals: (A) (B)
6.				Prevalence Index = B/A =
7.				Hydrophytic Vegetation Indicators:
	40	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5')				X 2 - Dominance Test is >50%
Onoclea sensibilis	10	Yes	FACW	3 - Prevalence Index is ≤3.0 ¹
2. Toxicodendron radicans	5	Yes	FAC	4 - Morphological Adaptations ¹ (Provide supporting
3. Lysimachia nummularia	5	Yes	FACW	data in Remarks or on a separate sheet)
4.				Problematic Hydrophytic Vegetation ¹ (Explain)
				<u> </u>
6.				¹ 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
	20	=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 riparia	5	Yes	FAC	height.
2				
3.				Hydrophytic Vegetation
4.				Present? Yes X No
	5	=Total Cover		
Remarks: (Include photo numbers here or on a separ	ate sheet.)			1

Sampling Point: GR-WW-Wet

SOIL Sampling Point: GR-WW-Wet

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)	<u>%</u>	Type ¹	Loc ²	Texture	Remarks	
0-14	5YR 3/2	95	7.5YR 4/6	5	С	М	Mucky Loam/Clay	Prominent redox concentrations	
								_	
1 _{Type:} C=C	oncentration, D=Depl	Lotion DA	4-Reduced Matrix N		kod Son	Croine	² l continu	L=Pore Lining, M=Matrix.	
Hydric Soil		ellon, Riv	/i-Reduced Matrix, N	15-IVIAS	sked Sand	i Grains.		or Problematic Hydric Soils ³ :	
Histosol			Polyvalue Belo	w Surfa	nce (S8) (I	RR R		ick (A10) (LRR K, L, MLRA 149B)	
	oipedon (A2)		MLRA 149B		100 (00) (1	-ixix ix,		rairie Redox (A16) (LRR K, L, R)	
	stic (A3)		Thin Dark Surfa	,) (LRR R	MLRA		icky Peat or Peat (S3) (LRR K, L, R)	
	en Sulfide (A4)		High Chroma S					e Below Surface (S8) (LRR K, L)	
	d Layers (A5)		Loamy Mucky I					k Surface (S9) (LRR K, L)	
	d Below Dark Surface	e (A11)	Loamy Gleyed			. ,		nganese Masses (F12) (LRR K, L, R)	
Thick Da	ark Surface (A12)		Depleted Matri				Piedmor	nt Floodplain Soils (F19) (MLRA 149B)	
Sandy Mucky Mineral (S1)			X Redox Dark Su	ırface (F	- 6)		Mesic S	podic (TA6) (MLRA 144A, 145, 149B)	
Sandy Gleyed Matrix (S4)			Depleted Dark	Surface	e (F7)		Red Par	ent Material (F21)	
Sandy Redox (S5)			Redox Depress	sions (F	8)			allow Dark Surface (F22)	
Stripped Matrix (S6)			Marl (F10) (LR	R K, L)			Other (E	xplain in Remarks)	
Dark Su	rface (S7)								
2									
			vetland hydrology mu	ıst be p	resent, ur	iless dis	turbed or problematic.		
	Layer (if observed):								
Type:									
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	usaa.gov/Internet/F	SE_DO	CUMENT	S/nrcs14	12p2_051293.docx)		



Wetland G-R-WW- View facing North



Wetland G-R-WW- Soils

SITE PHOTOGRAPHS

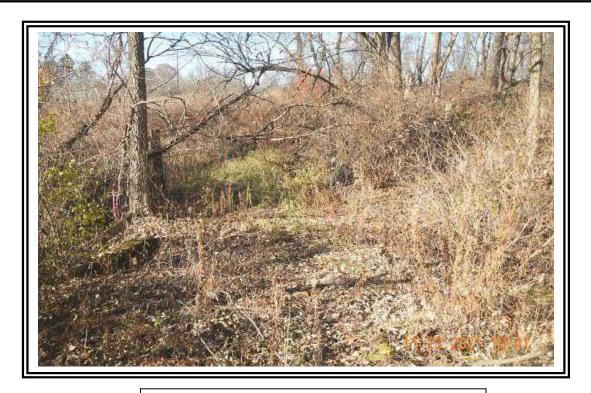
Project/Site: CHPE - CP Rail - Fort Edward to Milton Section	City/County: Saratoga Sampling Date: 11/23/21				
Applicant/Owner: CHPE	State: NY Sampling Point: GR-ww-up				
Investigator(s): KW, KS	Section, Township, Range: Moreau				
- ''	relief (concave, convex, none): Convex Slope %: 10				
Subregion (LRR or MLRA): LRR R, MLRA 144A Lat: 43,15',12.00"N	Long: 73,35',47.10"W Datum:				
Soil Map Unit Name: Unadilla Very Fine Sandy Loam	NWI classification: None				
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 problem	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:				
HADBOI OCA					
HYDROLOGY Western Under Law Indicators	Consolidate Indicators (asin insure of true as quired)				
Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply)	Secondary Indicators (minimum of two required) Surface Soil Cracks (B6)				
Surface Water (A1) Water-Stained Leaves (
High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)				
Saturation (A3) ———————————————————————————————————	Dry-Season Water Table (C2)				
Water Marks (B1) Hydrogen Sulfide Odor					
Sediment Deposits (B2) Oxidized Rhizospheres					
Drift Deposits (B3) Presence of Reduced In	<u> </u>				
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	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, pro	evious inspections), if available:				
Demodrat					
Remarks:					

Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
Tree Stratum (Plot size: 30') 1. Fraxinus americana	<u> </u>	Yes	FACU	
2		100	17100	Number of Dominant Species That Are OBL, FACW, or FAC:1 (A)
3. 4.				Total Number of Dominant Species Across All Strata: 9 (B)
5.6.		·		Percent of Dominant Species That Are OBL, FACW, or FAC:11.1%(A/B)
7.				Prevalence Index worksheet:
	5	=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size:)				OBL species x 1 =
1. Lonicera tatarica	15	Yes	FACU	FACW species x 2 =
2. Rubus allegheniensis	10	Yes	FACU	FAC species x 3 =
3. Rhus typhina	10	Yes	UPL	FACU species x 4 =
4.				UPL species x 5 =
5.				Column Totals: (A) (B)
6.				Prevalence Index = B/A =
7.				Hydrophytic Vegetation Indicators:
	35	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5')		•		2 - Dominance Test is >50%
1. Solidago canadensis	20	Yes	FACU	3 - Prevalence Index is ≤3.0 ¹
2. Setaria faberi	20	Yes	FACU	4 - Morphological Adaptations ¹ (Provide supporting
3. Phalaris arundinacea	5	No	FACW	data in Remarks or on a separate sheet)
4. Schizachyrium scoparium	15	Yes	UPL	Problematic Hydrophytic Vegetation ¹ (Explain)
5		-		¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
7.				Definitions of Vegetation Strata:
8 9				Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
10				Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
11.		-		and greater than or equal to 3.26 it (1 iii) tall.
12	60	=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:)				Woody vines – All woody vines greater than 3.28 ft in
1. Celastrus orbiculatus	5	Yes	UPL	height.
2. Vitis riparia	5	Yes	FAC	H. Assah, Co.
3.				Hydrophytic Vegetation
4.				Present? Yes No X
	10	=Total Cover		
Remarks: (Include photo numbers here or on a separ	ate sheet.)			

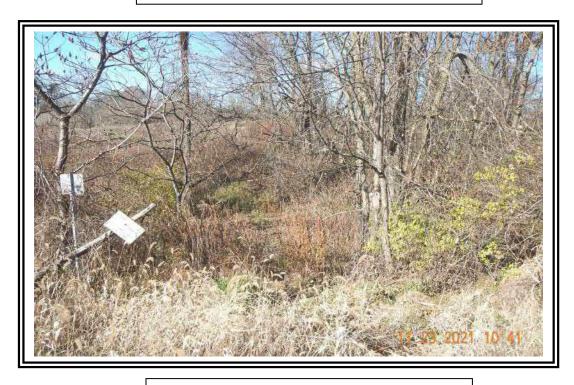
Sampling Point: GR-WW-Up

SOIL Sampling Point: GR-WW-Up

		o the dep				tor or co	onfirm the absence of indica	tors.)	
Depth (inches)	Matrix Color (moint)	%		x Featur		Loc ²	Toyturo	Domori	40
(inches)	Color (moist)		Color (moist)	<u></u> %	Type ¹	LOC	Texture	Remarl	KS
0-6	10YR 4/4	100					Loamy/Clayey		
6-12	10YR 3/3	100					Loamy/Clayey		
			_						
¹Type: C=Co	ncentration, D=Deple	etion RM	=Reduced Matrix N	 //S=Mas	ked Sand		² Location: PL=Pore	Lining M=Mat	rix
Hydric Soil I		34011, 1411	rtoddodd Matrix, ft	no mao	Roa Garie	· Oranio.	Indicators for Prob		•
Histosol ((A1)		Polyvalue Belo	w Surfa	ce (S8) (I	LRR R,	2 cm Muck (A10)) (LRR K, L, N	ILRA 149B)
Histic Ep	ipedon (A2)		MLRA 149B)			Coast Prairie Re	edox (A16) (LR	R K, L, R)
Black His			Thin Dark Surf						
	n Sulfide (A4)		High Chroma S				Polyvalue Belov		
	Layers (A5) Below Dark Surface	(Δ11)	Loamy Mucky Loamy Gleyed			₹ K, L)	Thin Dark Surfa Iron-Manganese		
	rk Surface (A12)	(A11)	Depleted Matri		F2)				9) (MLRA 149B)
	ucky Mineral (S1)	•	Redox Dark Su		⁻ 6)		Mesic Spodic (T		
	leyed Matrix (S4)	•	Depleted Dark				Red Parent Mat		,
Sandy Re	edox (S5)		Redox Depres	sions (F	8)		Very Shallow Da	ark Surface (F2	22)
	Matrix (S6)		Marl (F10) (LR	RK, L)			Other (Explain i	n Remarks)	
Dark Sur	face (S7)								
³ Indicators of	hydronhytic yegetati	on and w	atland hydrology mi	iet ha nr	acant ur	alace diet	urbed or problematic.		
	.ayer (if observed):	on and w	edana nyarology me	ast be pi	esent, ui	iless dist	urbed or problematic.		
Type:	,								
Depth (in	ches):						Hydric Soil Present?	Yes	No X
Remarks:									



Upland G-R-WW- View facing West



Upland G-R-WW- View facing West

Segment 4 and 5 – Package 3

SITE PHOTOGRAPHS

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Applicant/Owner: CHPE State: NY Sampling Point: G-P3-P_WET Investigator(s): KW, KS Section, Township, Range: Gaansvort Landform (hillside, terrace, etc.): Lake Plain Local relief (concave, convex, none): Concave Slope %: 0
Subregion (LRR or MLRA): LRR R, MLRA 144A Lat: 43°,14',53.04"N Long: 73°,35',56.53"W Datum:
Soil Map Unit Name: Hudson Silty 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 Hydrologysignificantly disturbed?
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:
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) 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)
X Water Marks (B1) Hydrogen Sulfide Odor (C1) Crayfish Burrows (C8)
Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B3) Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Geomorphic Position (D2)
Iron Deposits (B5) Thin Muck Surface (C7) Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) 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): 5 Wetland Hydrology Present? Yes X No
(includes capillary fringe)
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:
Remarks:

ree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
Fraxinus pennsylvanica	10	Yes	FACW	
		103	TAOW	Number of Dominant Species That Are OBL, FACW, or FAC: 5 (A)
				Total Number of Dominant Species Across All Strata: 6 (B)
				, ,
				Percent of Dominant Species That Are OBL, FACW, or FAC: 83.3% (A/B
·				Prevalence Index worksheet:
	10	=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15'	,	rotal Gover		OBL species x 1 =
. Cornus amomum	10	Yes	FACW	FACW species x 2 =
Lonicera tatarica	10	Yes	FACU	FAC species x 3 =
. Lonicera tatarica	10	163	TACO	FACU species x 4 =
				UPL species x 5 =
· -				Column Totals: (A) (B
·				Prevalence Index = B/A =
	20	=Total Cover		Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation
Jorh Stratum (Diat size: E')		- Total Cover		1
lerb Stratum (Plot size: 5')	20	V	ODI	X 2 - Dominance Test is >50%
Lythrum salicaria	20	Yes	OBL	3 - Prevalence Index is ≤3.0 ¹ 4 - Morphological Adaptations (Provide supporting)
Bidens frondosa	20	Yes	FACW	data in Remarks or on a separate sheet)
Phalaris arundinacea	15	Yes	FACW	
Symphyotrichum racemosum	5	No No	FACU	Problematic Hydrophytic Vegetation ¹ (Explain)
Impatiens capensis	5	No No	FACW	¹ Indicators of hydric soil and wetland hydrology must
Epilobium coloratum	5	No	OBL	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.
0				Sapling/shrub – Woody plants less than 3 in. DBH
1				and greater than or equal to 3.28 ft (1 m) tall.
2				Herb – All herbaceous (non-woody) plants, regardles
	70	=Total Cover		of size, and woody plants less than 3.28 ft tall.
Voody Vine Stratum (Plot size: 15')			Woody vines – All woody vines greater than 3.28 ft in
·				height.
·	<u> </u>			Hydrophytic
				Vegetation
				Present? Yes X No No
·		=Total Cover		

Profile Desc	ription: (Describe t Matrix	o the de		ıment tl x Featur		itor or co	onfirm the absence o	f indicators.)
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-10	10YR 3/2	95	10YR 3/6	5	С	М	Loamy/Clayey	Prominent redox concentrations
10-14	10YR 3/1	95	10YR 4/6	5	<u>C</u>	<u>M</u>	Loamy/Clayey	Prominent redox concentrations
		<u> </u>		_ 				
				<u> </u>	<u> </u>	<u> </u>		
¹ Type: C=Co	ncentration, D=Depl	etion, RN	∕I=Reduced Matrix, N	/IS=Mas	ked Sand	d Grains.		PL=Pore Lining, M=Matrix. or Problematic Hydric Soils ³ :
Histosol (Histic Ep Black His Hydroger Stratified Depleted Thick Da Sandy M Sandy Gl Sandy Re Stripped Dark Sur	(A1) ipedon (A2) stic (A3) n Sulfide (A4) Layers (A5) Below Dark Surface rk Surface (A12) ucky Mineral (S1) leyed Matrix (S4) edox (S5) Matrix (S6) face (S7)		Polyvalue Belo MLRA 149B Thin Dark Surfa High Chroma S Loamy Mucky Loamy Gleyed Depleted Matri X Redox Dark Su Depleted Dark Redox Depress Marl (F10) (LR) ace (S9) Sands (S Mineral Matrix (x (F3) urface (F Surface sions (Fi R K, L)	(LRR R 611) (LRI (F1) (LRI F2) 66) (F7) 8)	, MLRA 1 R K, L) R K, L)	2 cm Mt ? Coast P 49B) 5 cm Mt Polyvalt Thin Da Iron-Mai Piedmoi Mesic S Red Pai Very Sh Other (E	uck (A10) (LRR K, L, MLRA 149B) rairie Redox (A16) (LRR K, L, R) ucky Peat or Peat (S3) (LRR K, L, R) ue Below Surface (S8) (LRR K, L) rk Surface (S9) (LRR K, L) nganese Masses (F12) (LRR K, L, R) nt Floodplain Soils (F19) (MLRA 149B) podic (TA6) (MLRA 144A, 145, 149B) rent Material (F21) allow Dark Surface (F22) Explain in Remarks)
		on and w	vetland hydrology mu	ıst be pr	esent, ur	nless dist	urbed or problematic.	
Type:	ayer (if observed):							
Depth (in	ches):						Hydric Soil Prese	nt? Yes X No
Version 7.0, 2	n is revised from Noi 2015 Errata. (http://w it possible due to sol	ww.nrcs.	usda.gov/Internet/FS	SE_DOC	CUMENT			CS Field Indicators of Hydric Soils,



Wetland G-P3-P



Wetland G-P3-P- Soils

Segment 4 and 5 – Package 3

SITE PHOTOGRAPHS

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: CHPE - Package 3 - off N. River Road - MP 136.4	City/County: Saratoga Sampling Date: 10/20/22						
Applicant/Owner: CHPE	State: NY Sampling Point: G-P3-P_UP						
Investigator(s): KW, KS	Section, Township, Range: Gaansvort						
Landform (hillside, terrace, etc.): Lake Plain Local	relief (concave, convex, none): Concave Slope %: 5						
	Long: 73°,35',56.53"W Datum:						
Soil Map Unit Name: Hudson Silty Loam	NWI classification: None						
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes X No (If no, explain in Remarks.)						
Are Vegetation, Soil, or Hydrologysignificantly disturb							
Are Vegetation, Soil, or Hydrology naturally problems							
 -							
SUMMARY OF FINDINGS – Attach site map showing sam	pling point locations, transects, important features, etc.						
Hydrophytic Vegetation Present? Yes No X	Is the Sampled Area						
Hydric Soil Present? Yes No X	within a Wetland? Yes No _ X						
Wetland Hydrology Present? Yes No X	If yes, optional Wetland Site ID:						
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 (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 ((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 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):							
(includes capillary fringe)							
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	evious inspections), if available:						
	1 //						
Remarks:							

Yes Yes Yes ttal Cover Yes Yes No No	UPL FACW UPL	Dominance Test worksheet: Number of Dominant Species 1 (A) Total Number of Dominant 4 (B) Percent of Dominant Species 4 (B) Percent of Dominant Species 4 (B) That Are OBL, FACW, or FAC: 25.0% (A/E) Prevalence Index worksheet: Multiply by: OBL species x 1 = Multiply by: FACW species x 2 = FAC species x 3 = FACU species x 4 = Y = UPL species x 5 = Column Totals: (A) (E) Prevalence Index = B/A = Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0¹ 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
tal Cover Yes Yes No	FACU UPL FACW	That Are OBL, FACW, or FAC: 1 (A) Total Number of Dominant Species Across All Strata: 4 (B) Percent of Dominant Species That Are OBL, FACW, or FAC: 25.0% (A/E) Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species x 1 = FACW species x 2 = FAC species x 3 = FACU species x 4 = UPL species x 5 = Column Totals: (A) (E) Prevalence Index = B/A = Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0¹ 4 - Morphological Adaptations¹ (Provide supporti
otal Cover Yes Yes No	UPL	Total Number of Dominant Species Across All Strata: Percent of Dominant Species That Are OBL, FACW, or FAC: 25.0% (A/E Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species x 1 = FACW species x 2 = FAC species x 3 = FACU species x 4 = UPL species x 5 = Column Totals: A Prevalence Index = B/A = Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0¹ 4 - Morphological Adaptations¹ (Provide supporti
tal Cover Yes Yes No	FACW	Species Across All Strata: 4 (B) Percent of Dominant Species That Are OBL, FACW, or FAC: 25.0% (A/E Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species x 1 = FACW species x 2 = FAC species x 3 = FACU species x 4 = UPL species x 5 = Column Totals: (A) (E) Prevalence Index = B/A = Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0¹ 4 - Morphological Adaptations¹ (Provide supporti
tal Cover Yes Yes No	FACW	Percent of Dominant Species That Are OBL, FACW, or FAC: Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species x 1 = FACW species x 2 = FAC species x 3 = FACU species x 4 = UPL species x 5 = Column Totals: (A) Prevalence Index = B/A = Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0¹ 4 - Morphological Adaptations¹ (Provide supporti
tal Cover Yes Yes No	FACW	That Are OBL, FACW, or FAC: 25.0% (A/E Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species x 1 = FACW species x 2 = FAC species x 4 = UPL species x 5 = Column Totals: (A) (E Prevalence Index = B/A = Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0¹ 4 - Morphological Adaptations¹ (Provide supporti
tal Cover Yes Yes No	FACW	Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species x 1 = FACW species x 2 = FAC species x 4 = UPL species x 5 = Column Totals: (A) (B Prevalence Index = B/A = Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0¹ 4 - Morphological Adaptations¹ (Provide supportion)
Yes Yes No	FACW	Total % Cover of: Multiply by: OBL species
Yes Yes No	FACW	OBL species x 1 = FACW species x 2 = FAC species x 3 = FACU species x 4 = UPL species x 5 = Column Totals: (A) (B Prevalence Index = B/A = Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0¹ 4 - Morphological Adaptations¹ (Provide supportion)
Yes Yes No	FACW	FACW species x 2 = FAC species x 3 = FACU species x 4 = UPL species x 5 = Column Totals: (A) (B Prevalence Index = B/A = Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0¹ 4 - Morphological Adaptations¹ (Provide supportion)
Yes Yes No	FACW	FAC species x 3 = FACU species x 4 = UPL species x 5 = Column Totals: (A) (I Prevalence Index = B/A = Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0¹ 4 - Morphological Adaptations¹ (Provide support
Yes Yes No	FACW	FACU species x 4 = UPL species x 5 = Column Totals: (A) (I Prevalence Index = B/A = Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0¹ 4 - Morphological Adaptations¹ (Provide support
Yes Yes No	FACW	UPL species x 5 =
Yes Yes No	FACW	Column Totals: (A) (E Prevalence Index = B/A = Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0¹ 4 - Morphological Adaptations¹ (Provide supportions)
Yes Yes No	FACW	Prevalence Index = B/A = Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0¹ 4 - Morphological Adaptations¹ (Provide supportions)
Yes Yes No	FACW	Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0¹ 4 - Morphological Adaptations¹ (Provide support
Yes Yes No	FACW	1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0¹ 4 - Morphological Adaptations¹ (Provide support
Yes Yes No	FACW	2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0 ¹ 4 - Morphological Adaptations ¹ (Provide support
Yes No	FACW	3 - Prevalence Index is ≤3.0 ¹ 4 - Morphological Adaptations ¹ (Provide support
Yes No	FACW	4 - Morphological Adaptations ¹ (Provide support
No		
	UPL	data in Remarks or on a separate sheet)
No		, ,
	FACU	Problematic Hydrophytic Vegetation ¹ (Explain)
No	FACU	¹ Indicators of hydric soil and wetland hydrology musi
No	UPL	be present, unless disturbed or problematic.
		Definitions of Vegetation Strata:
		Tree – Woody plants 3 in. (7.6 cm) or more in
		diameter at breast height (DBH), regardless of heigh
		Sapling/shrub – Woody plants less than 3 in. DBH
		and greater than or equal to 3.28 ft (1 m) tall.
_		Herb – All herbaceous (non-woody) plants, regardle:
tal Cover		of size, and woody plants less than 3.28 ft tall.
		Woody vines – All woody vines greater than 3.28 ft
		height.
		Hydrophytic
_		Vegetation Present? Yes No X
tal Cover		
		tal Cover

SOIL Sampling Point G-P3-P_UP

		to the de				tor or co	onfirm the absence of inc	dicators.)
Depth	Matrix	0/		x Featur		1 - 2	T 4	Damanda
(inches)	Color (moist)	%	Color (moist)	<u>%</u>	Type ¹	Loc ²	Texture	Remarks
0-12	10YR 4/3	100					Loamy/Clayey	
								_
¹ Type: C=C	oncentration, D=Depl	etion RN	M=Reduced Matrix M	 AS=Mas	ked Sand	I Grains	² l ocation: PI =F	Pore Lining, M=Matrix.
Hydric Soil	•	etion, ixiv	i-Reduced Matrix, I	vio-ivias	Keu Gand	Oranis.		Problematic Hydric Soils ³ :
Histosol			Polyvalue Belo	w Surfa	ce (S8) (I	RRR		(A10) (LRR K, L, MLRA 149B)
	pipedon (A2)		MLRA 149B		ce (50) (i	LIXIX IX,		e Redox (A16) (LRR K, L, R)
	stic (A3)		Thin Dark Surf	•	(I PP P	MI DA 1		Peat or Peat (S3) (LRR K, L, R)
	n Sulfide (A4)		High Chroma S		-			elow Surface (S8) (LRR K, L)
	l Layers (A5)		Loamy Mucky					urface (S9) (LRR K, L)
	d Below Dark Surface	· (A11)	Loamy Gleyed			₹ 1 ₹, ∟)		nese Masses (F12) (LRR K, L, R)
	ark Surface (A12)	(A11)			F2)			
	lucky Mineral (S1)		Depleted Matri Redox Dark St		.e)			oodplain Soils (F19) (MLRA 149B)
	sleyed Matrix (S4)		Depleted Dark		-			ic (TA6) (MLRA 144A, 145, 149B) Material (F21)
	edox (S5)		Redox Depres					w Dark Surface (F22)
	Matrix (S6)		Marl (F10) (LR		0)			ain in Remarks)
			Wall (1-10) (LN	K K, L)			Other (Expire	alli ili ivelliaiks)
Dark Su	rface (S7)							
3Indicators of	f hydrophytic vegetati	ion and w	otland hydrology m	ict ho pr	rocont ur	aloes dist	urhad or problematic	
	Layer (if observed):		retiand hydrology mi	ust be pi	esent, ui	iless dist	dibed of problematic.	
Type:	Layer (ii observed).							
•								
Depth (ii	nches):						Hydric Soil Present?	Yes No <u>X</u>
Remarks:								
								Field Indicators of Hydric Soils,
	2015 Errata. (http://w					S/nrcs14	2p2_051293.docx)	
No son test p	it possible due to sol	เด รนธรเก	ate of copple and dr	eage ma	iteriai.			



Upland G-P3-P



Upland G-P3-P- Soils

Segment 4 and 5 – Package 3

SITE PHOTOGRAPHS

U.S. Army Corps of Engineers

WETLAND DETERMINATION DATA SHEET – Northcentral and Northeast Region

See ERDC/EL TR-12-1; the proponent agency is CECW-CO-R

OMB Control #: 0710-0024, Exp: 11/30/2024 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)

Project/Site: CHPE - Package 3	City/0	County: Moreau / Saratoga County	Sampling Date: 07-19-22				
Applicant/Owner: TDI		State: NY	Sampling Point: wet_P3-C-10				
Investigator(s): C. Scrivner & J. Greaves		Section, Township, Range:					
Landform (hillside, terrace, etc.): Depression	Local relief (concave, convex, none): Concave	Slope %: 2				
•	Lat: 43.24546	· , ,	Datum: WGS 84				
Subregion (LRR or MLRA): LRR R Soil Map Unit Name: Hudson silt loam, hilly (HuD		Long: -73.59922 NWI classification:	PEM1				
·							
Are climatic / hydrologic conditions on the site typic	•		explain in Remarks.)				
Are Vegetation, Soil, or Hydrology	significantly disturbed?	Are "Normal Circumstances" prese	ent? Yes X No				
Are Vegetation, Soil, or Hydrology	naturally problematic?	(If needed, explain any answers in	Remarks.)				
SUMMARY OF FINDINGS – Attach site	map showing sampling	point locations, transects, im	portant features, etc.				
Lhadarahatia Vanatatian Prasanto	- V Na la	ha Camulad Anaa					
		he Sampled Area	Na				
		hin a Wetland? Yes X es, optional Wetland Site ID: Near flag	No				
		es, optional Wetland Site ID: Near flag	P3-C-10				
Remarks: (Explain alternative procedures here of	r in a separate report.)						
Shallow emergent marsh.							
HYDROLOGY							
Wetland Hydrology Indicators:		Secondary Indicators (m	ninimum of two required)				
Primary Indicators (minimum of one is required; c	heck all that apply)	Surface Soil Cracks	; (B6)				
Surface Water (A1)	Water-Stained Leaves (B9)	X Drainage Patterns (B10)				
High Water Table (A2)	Aquatic Fauna (B13)	Moss Trim Lines (B	16)				
Saturation (A3)	Marl Deposits (B15)	Dry-Season Water Table (C2)					
Water Marks (B1)	Hydrogen Sulfide Odor (C1)	(C1)Crayfish Burrows (C8)					
Sediment Deposits (B2) X	Oxidized Rhizospheres on Livi	ng Roots (C3) Saturation Visible o	n Aerial Imagery (C9)				
Drift Deposits (B3)	Presence of Reduced Iron (C4	ron (C4) Stunted or Stressed Plants (D1)					
Algal Mat or Crust (B4)	Recent Iron Reduction in Tilled	in Tilled Soils (C6) X Geomorphic Position (D2)					
Iron Deposits (B5)	Thin Muck Surface (C7)	Shallow Aquitard (D	/3)				
Inundation Visible on Aerial Imagery (B7)	Other (Explain in Remarks)	X Microtopographic R	elief (D4)				
Sparsely Vegetated Concave Surface (B8)		X FAC-Neutral Test (I) 5)				
Field Observations:							
Surface Water Present? Yes No	Depth (inches):						
Water Table Present? Yes No	Depth (inches):						
	X Depth (inches):	Wetland Hydrology Present?	Yes X No				
(includes capillary fringe)							
Describe Recorded Data (stream gauge, monitori	ng well, aerial photos, previous i	nspections), if available:					
Remarks:							

Constant (District Only)	Absolute	Dominant	Indicator	Bandana Tarkanakahari		
ree Stratum (Plot size: 30')	% Cover	Species?	Status	Dominance Test worksheet:		
·				Number of Dominant Species		
·				That Are OBL, FACW, or FAC:6 (A)		
·				Total Number of Dominant		
·				Species Across All Strata: 6 (B)		
				Percent of Dominant Species		
				That Are OBL, FACW, or FAC: 100.0% (A/B)		
·		T		Prevalence Index worksheet:		
		=Total Cover		Total % Cover of: Multiply by:		
apling/Shrub Stratum (Plot size: 15')				OBL species 73 x 1 = 73		
·				FACW species 23 x 2 = 46		
·				FAC species 5 x 3 = 15		
·				FACU species		
·				UPL species 0 x 5 = 0		
·				Column Totals: 101 (A) 134 (B		
·				Prevalence Index = B/A = 1.33		
·				Hydrophytic Vegetation Indicators:		
		=Total Cover		1 - Rapid Test for Hydrophytic Vegetation		
lerb Stratum (Plot size:5')				X 2 - Dominance Test is >50%		
. Juncus effusus	15	Yes	OBL	X 3 - Prevalence Index is ≤3.0 ¹		
. Carex vulpinoidea	15	Yes	OBL	4 - Morphological Adaptations ¹ (Provide supportin data in Remarks or on a separate sheet)		
. Scirpus atrovirens	10	Yes	OBL	Problematic Hydrophytic Vegetation ¹ (Explain) 1Indicators of hydric soil and wetland hydrology mu		
. Carex lurida	10	Yes	OBL			
Solidago gigantea	10	Yes	FACW			
. Typha latifolia	8	No	OBL	present, unless disturbed or problematic.		
. Carex bebbii	5	No	OBL	Definitions of Vegetation Strata:		
. Verbena hastata	5	No	FACW	Tree – Woody plants 3 in. (7.6 cm) or more in diameter		
. Carex lupulina	5	No	OBL	at breast height (DBH), regardless of height.		
0. Eupatorium perfoliatum	5	No	FACW	Sapling/shrub – Woody plants less than 3 in. DBH		
1. Eutrochium maculatum	5	No	OBL	and greater than or equal to 3.28 ft (1 m) tall.		
2. Lysimachia ciliata	3	No	FACW	Herb – All herbaceous (non-woody) plants, regardless		
	96	=Total Cover		of size, and woody plants less than 3.28 ft tall.		
Voody Vine Stratum (Plot size:)				Woody vines – All woody vines greater than 3.28 ft in		
. Vitis riparia	5	Yes	FAC	height.		
				Hydrophytic Vegetation		
				Present? Yes X No		
	5	=Total Cover				

SOIL Sampling Point: Wet_P3-C-10

Profile Desc	ription: (Describe t	o the de	oth needed to docu	ment th	e indicat	tor or co	nfirm the absence of i	ndicators.)	
Depth	Matrix			(Featur					
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks	
0-16	N 4/	71	10YR 3/1	2	С	M	Loamy/Clayey	Faint redox concentrations	
			10YR 4/6	20	<u>C</u>	<u>M</u>		Prominent redox concentrations	
			10YR 4/6	2	С	PL		Prominent redox concentrations	
			10YR 4/3	5	С	M		Prominent redox concentrations	
¹Type: C=Co	ncentration, D=Deple	etion, RM	=Reduced Matrix, MS	======================================	ed Sand	Grains.	² Location: PL	=Pore Lining, M=Matrix.	
Hydric Soil I			•					r Problematic Hydric Soils ³ :	
Histosol			Dark Surface (S	S7)				k (A10) (LRR K, L, MLRA 149B)	
	ipedon (A2)		Polyvalue Belov		ce (S8) (L	RR R,		airie Redox (A16) (LRR K, L, R)	
Black Histic (A3) MLRA 149B)				(, (,		cky Peat or Peat (S3) (LRR K, L, R)		
Hydrogen Sulfide (A4) Thin Dark Surface (S9)				(LRR R,	MLRA 1		Below Surface (S8) (LRR K, L)		
Stratified Layers (A5)			High Chroma S				Thin Dark Surface (S9) (LRR K, L)		
Depleted Below Dark Surface (A11)			Loamy Mucky N				Iron-Manganese Masses (F12) (LRR K, L, R)		
Thick Dark Surface (A12) X Loamy Gleyed Matrix (F2)				, ,	Piedmont Floodplain Soils (F19) (MLRA 149B)				
	odic (A17)		Depleted Matrix	•	,			nt Material (F21) (outside MLRA 145)	
	A 144A, 145, 149B)		Redox Dark Su		6)			llow Dark Surface (F22)	
•	ucky Mineral (S1)		Depleted Dark					plain in Remarks)	
	leyed Matrix (S4)		Redox Depress		. ,			praint in the manner	
	edox (S5)		Marl (F10) (LRI	,	-,		³ Indicators of hydrophytic vegetation and		
	Matrix (S6)		Red Parent Ma	. ,	21) (MI R	Δ 145)	wetland hydrology must be present,		
	Matrix (CC)			ionai (i i			unless disturbed or problematic.		
Restrictive L	ayer (if observed):								
Type:									
Depth (in	ches):						Hydric Soil Present	? Yes X No	
Remarks:									



Wetland P3-C- View facing west/northwest



Wetland P3-C - Soils

SITE PHOTOGRAPHS

Segment 4 and 5 – Package 3

U.S. Army Corps of Engineers

WETLAND DETERMINATION DATA SHEET – Northcentral and Northeast Region

See ERDC/EL TR-12-1; the proponent agency is CECW-CO-R

OMB Control #: 0710-0024, Exp: 11/30/2024 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)

Project/Site: CHPE - Package 3	City/County: Moreau / Saratoga County Sampling D	Date: 07-19-22		
Applicant/Owner: TDI	<u></u>	g Point: Wet_P3-B-2		
Investigator(s): C. Scrivner & J. Greaves	Section, Township, Range:	, <u> </u>		
	relief (concave, convex, none): Concave	Slope %: 3		
	\(\frac{1}{2}\)			
Subregion (LRR or MLRA): LRR R Lat: 43.24502		um: WGS 84		
Soil Map Unit Name: Teel silt loam (Te)				
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes X No (If no, explain in Re	emarks.)		
Are Vegetation, Soil, or Hydrology significantly distu	bed? Are "Normal Circumstances" present? Yes	X No		
Are Vegetation, Soil, or Hydrologynaturally problem	atic? (If needed, explain any answers in Remarks.)			
SUMMARY OF FINDINGS – Attach site map showing sai	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 P3-B-2	'		
Remarks: (Explain alternative procedures here or in a separate report.)				
Shrub swamp.				
'				
HYDROLOGY				
Wetland Hydrology Indicators:	Secondary Indicators (minimum of to	wo required)		
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)			
Surface Water (A1) X Water-Stained Leaves	39) X Drainage Patterns (B10)			
High Water Table (A2) Aquatic Fauna (B13)	X Moss Trim Lines (B16)			
Saturation (A3) Marl Deposits (B15)	Dry-Season Water Table (C2)			
Water Marks (B1) Hydrogen Sulfide Odor	C1) Crayfish Burrows (C8)			
Sediment Deposits (B2) Oxidized Rhizospheres	on Living Roots (C3)Saturation Visible on Aerial Imagery (C			
Drift Deposits (B3) Presence of Reduced II	on (C4) Stunted or Stressed Plants (D1)	1		
Algal Mat or Crust (B4)Recent Iron Reduction i	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 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)	Wetland Hydrology Present? Yes	XNo		
(includes capillary fringe)				
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pr	evious inspections), if available:			
Remarks:				

/EGETATION – Use scientific names of pla	IIIIS.			Sampling Point: Wet_P3-B-2		
<u>Tree Stratum</u> (Plot size:)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:		
1. Acer saccharinum	10	Yes	FACW	Number of Dominant Species		
2. Ulmus americana	5	Yes	FACW	That Are OBL, FACW, or FAC:(A)		
3. Fraxinus pennsylvanica	5	Yes	FACW	Total Number of Dominant		
4			1	Species Across All Strata: 11 (B)		
5				Percent of Dominant Species		
6				That Are OBL, FACW, or FAC: 100.0% (A/B)		
7				Prevalence Index worksheet:		
	20	=Total Cover		Total % Cover of: Multiply by:		
Sapling/Shrub Stratum (Plot size: 15')		-		OBL species 45 x 1 = 45		
1. Cornus amomum	35	Yes	FACW	FACW species 142 x 2 = 284		
Fraxinus pennsylvanica	20	Yes	FACW	FAC species 15 x 3 = 45		
3. Acer saccharinum	15	No	FACW	FACU species 0 x 4 = 0		
4. Ulmus americana	10	No	FACW	UPL species 0 x 5 = 0		
5.				Column Totals: 202 (A) 374 (B)		
6.		· ·	(<u> </u>	Prevalence Index = B/A = 1.85		
7.		-		Hydrophytic Vegetation Indicators:		
	80	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation		
Herb Stratum (Plot size: 5')		-10101 00101		X 2 - Dominance Test is >50%		
1. Carex lupulina	25	Yes	OBL	X 3 - Prevalence Index is ≤3.0 ¹		
Lysimachia nummularia	10	Yes	FACW	4 - Morphological Adaptations ¹ (Provide supporting		
Acer saccharinum	10		FACW	data in Remarks or on a separate sheet)		
4. Acer rubrum	10	Yes Yes	FAC	Problematic Hydrophytic Vegetation ¹ (Explain)		
5. Boehmeria cylindrica	10	Yes	OBL	- Indicators of hydric soil and wetland hydrology must		
	5		OBL			
-		No No		present, unless disturbed or problematic.		
7. Onoclea sensibilis	5	No No	FACW	Definitions of Vegetation Strata:		
8. Solidago gigantea	5	No No	FACW	Tree – Woody plants 3 in. (7.6 cm) or more in diameter		
9. Impatiens capensis	5	No No	FACW	at breast height (DBH), regardless of height.		
10. Scirpus cyperinus	5	No No	OBL	Sapling/shrub – Woody plants less than 3 in. DBH		
11. Cornus amomum	5	<u>No</u>	FACW	and greater than or equal to 3.28 ft (1 m) tall.		
12. Arisaema dracontium	2	<u>No</u>	FACW	Herb – All herbaceous (non-woody) plants, regardless		
	97	=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 riparia	5	Yes	FAC	height.		
2				Hydrophytic		
3				Vegetation		
4				Present? Yes X No No		
	5	=Total Cover				

SOIL Sampling Point: Wet_P3-B-2

Profile Descr Depth	iption: (Describe to Matrix	o the de		ment the x Feature		tor or co	nfirm the absence of	indicators.)
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-2	10YR 2/1	95	10YR 5/4	5	С	М	Loamy/Clayey	Distinct redox concentrations
2-18	10YR 2/2	68	2.5YR 3/6	12	С	PL/M	Loamy/Clayey	Prominent redox concentrations
			10YR 4/6	10	С	М		Prominent redox concentrations
			5YR 3/4	10	<u>C</u>	<u>M</u>		Prominent redox concentrations
¹ Type: C=Coi	ncentration, D=Deple	etion, RM	l=Reduced Matrix, M	S=Mask	ed Sand	Grains.	² Location: Pl	L=Pore Lining, M=Matrix.
Hydric Soil Ir	ndicators:						Indicators fo	or Problematic Hydric Soils ³ :
Histosol (A1)		Dark Surface (S	S7)			2 cm Mu	ck (A10) (LRR K, L, MLRA 149B)
	pedon (A2)		Polyvalue Belov		ce (S8) (I	LRR R,		rairie Redox (A16) (LRR K, L, R)
Black His			MLRA 149B)					cky Peat or Peat (S3) (LRR K, L, R)
	Sulfide (A4)		Thin Dark Surfa					e Below Surface (S8) (LRR K, L)
	Layers (A5)		High Chroma S					k Surface (S9) (LRR K, L)
	Below Dark Surface	(A11)	Loamy Mucky N			R K, L)		nganese Masses (F12) (LRR K, L, R)
	k Surface (A12)		Loamy Gleyed		-2)			at Floodplain Soils (F19) (MLRA 149B)
	odic (A17) A 144A, 145, 149B)		Depleted Matrix X Redox Dark Su	` '	6)			ent Material (F21) (outside MLRA 145) allow Dark Surface (F22)
•				•	•			, ,
	ucky Mineral (S1)		Depleted Dark X Redox Depress		` '		Other (E.	xplain in Remarks)
Sandy Re	eyed Matrix (S4)		Marl (F10) (LRI	,))		³ Indicato	rs of hydrophytic vegetation and
	Matrix (S6)		Red Parent Ma		21) (MI F	2Δ 1Δ5)		d hydrology must be present,
Outpped 1	wattix (00)		Red Farentina	teriai (i z	er) (IVILI	(A 140)		disturbed or problematic.
	ayer (if observed):							
Type:								
	ches):						Hydric Soil Presen	nt? Yes X No
Remarks:								



Wetland P3-B - View facing west



Wetland P3-B - Soils

SITE PHOTOGRAPHS

Segment 4 and 5 – Package 3

U.S. Army Corps of Engineers

WETLAND DETERMINATION DATA SHEET – Northcentral and Northeast Region

See ERDC/EL TR-12-1; the proponent agency is CECW-CO-R

OMB Control #: 0710-0024, Exp: 11/30/2024 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)

Project/Site: CHPE - Package 3		City/County: Moreau / Saratoga County	Sampling Date: 07-19-22
Applicant/Owner: TDI		State: NY	Sampling Point: Wet_P3-B-6
Investigator(s): C. Scrivner & J. Greaves		Section, Township, Range:	<u> </u>
Landform (hillside, terrace, etc.): Depres	sion Local r	elief (concave, convex, none): Concave	Slope %: 2
			Datum: WGS 84
Subregion (LRR or MLRA): LRR R Soil Map Unit Name: Teel silt loam (Te)	Lat: 43.24519	Long: -73.59908 NWI classification:	
			
Are climatic / hydrologic conditions on the si	••		explain in Remarks.)
Are Vegetation, Soil, or Hyd	Irologysignificantly disturb	ped? Are "Normal Circumstances" pres	ent? Yes X No
Are Vegetation, Soil, or Hyd	Irology naturally problema	tic? (If needed, explain any answers in	Remarks.)
SUMMARY OF FINDINGS – Attac	h site map showing samp	pling point locations, transects, im	portant features, etc.
Lhadasahadia Vanadatian Basaard	Vaa V Na	In the Commission Area	
Hydrophytic Vegetation Present?	Yes X No No	Is the Sampled Area	Na
Hydric Soil Present?	Yes X No No	within a Wetland? Yes X	No
Wetland Hydrology Present?	Yes X No	If yes, optional Wetland Site ID: Near flag	g P3-B-6
Remarks: (Explain alternative procedures	here or in a separate report.)		
Shallow emergent marsh.			
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Indicators (r	minimum of two required)
Primary Indicators (minimum of one is requ	ired; check all that apply)	Surface Soil Crack	s (B6)
Surface Water (A1)	Water-Stained Leaves (B	39) <u>X</u> Drainage Patterns	(B10)
High Water Table (A2)	Aquatic Fauna (B13)	Moss Trim Lines (E	316)
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 of	on Aerial Imagery (C9)
Drift Deposits (B3)	Presence of Reduced Iro	on (C4) Stunted or Stresse	d Plants (D1)
Algal Mat or Crust (B4)	Recent Iron Reduction in	Tilled Soils (C6) X Geomorphic Position	on (D2)
Iron Deposits (B5)	Thin Muck Surface (C7)	Shallow Aquitard (I	D3)
Inundation Visible on Aerial Imagery (E	37)Other (Explain in Remark	(s) X Microtopographic F	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 Saturation 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, m	nonitoring well, aerial photos, prev	vious inspections), if available:	
Remarks:			

ree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
· · · · · · · · · · · · · · · · · · ·	70 00101	ороског.	Otatao	Zemmanee reet werkeneet.
				Number of Dominant Species That Are OBL, FACW, or FAC:4(A)
				Total Number of Dominant
	-			Species Across All Strata: 4 (B)
				Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B
				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 15 x 1 = 15
Populus deltoides	20	Yes	FAC	FACW species 62 x 2 = 124
Rhus typhina	2	No	UPL	FAC species 45 x 3 = 135
				FACU species 0 x 4 = 0
				UPL species 2 x 5 = 10
				Column Totals: 124 (A) 284 (B
				Prevalence Index = B/A = 2.29
	-			Hydrophytic Vegetation Indicators:
	22	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
erb Stratum (Plot size: 5')		-		X 2 - Dominance Test is >50%
Solidago gigantea	30	Yes	FACW	X 3 - Prevalence Index is ≤3.0 ¹
Impatiens capensis	25	Yes	FACW	4 - Morphological Adaptations (Provide supporting
Typha latifolia	15	No	OBL	data in Remarks or on a separate sheet)
Acer rubrum	10	No	FAC	Problematic Hydrophytic Vegetation ¹ (Explain)
Populus deltoides	10	No	FAC	¹ Indicators of hydric soil and wetland hydrology must
Panicum dichotomiflorum	5	No	FACW	present, unless disturbed or problematic.
Onoclea sensibilis	2	No	FACW	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.
2				Herb – All herbaceous (non-woody) plants, regardles
	97	=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 ir
Vitis riparia	5	Yes	FAC	height.
				Hudrophytic
				Hydrophytic Vegetation
				Present?
	5	=Total Cover		

SOIL Sampling Point: Wet_P3-B-6

Profile Desc Depth	ription: (Describe to Matrix	the de		ıment th x Featur		tor or co	nfirm the absence of	indicators.)
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-4	10YR 3/2	85	7.5YR 3/4	5	C	PL	Loamy/Clayey	Distinct redox concentrations
			7.5YR 3/4	10	С	M		Distinct redox concentrations
4-16	2.5Y 4/1	90	10YR 4/6	10	С	M	Loamy/Clayey	Prominent redox concentrations
	2.01 4/1		1011(4/0	10			Loaniy/Olayey	T TOTALISTIC TOUGH CONTROLLED TO
	oncentration, D=Deple	tion, RM	=Reduced Matrix, M	S=Mask	ed Sand	Grains.		PL=Pore Lining, M=Matrix.
Hydric Soil I			David Courte as /	07\				or Problematic Hydric Soils ³ :
Histosol	(A1) ipedon (A2)		Dark Surface (Polyvalue Belo	,	n (SS) (I	DD D		uck (A10) (LRR K, L, MLRA 149B) rairie Redox (A16) (LRR K, L, R)
Black His	. , ,		MLRA 149B		Je (30) (I	-NN N,		ucky Peat or Peat (S3) (LRR K, L, R)
	n Sulfide (A4)		Thin Dark Surf	,	(LRR R,	MLRA 1		ue Below Surface (S8) (LRR K, L)
	Layers (A5)		High Chroma S					rk Surface (S9) (LRR K, L)
X Depleted	Below Dark Surface	(A11)	Loamy Mucky	Mineral (F1) (LRF	R K, L)	Iron-Mai	nganese Masses (F12) (LRR K, L, R)
Thick Da	rk Surface (A12)		Loamy Gleyed	Matrix (F	- 2)		Piedmor	nt Floodplain Soils (F19) (MLRA 149B)
Mesic Sp	oodic (A17)		X Depleted Matri	x (F3)			Red Par	rent Material (F21) (outside MLRA 145
(MLR	A 144A, 145, 149B)		X Redox Dark Su	urface (F	6)		Very Sh	allow Dark Surface (F22)
	lucky Mineral (S1)		Depleted Dark				Other (E	Explain in Remarks)
	leyed Matrix (S4)		Redox Depres		3)		3	
	edox (S5)		Marl (F10) (LR					ors of hydrophytic vegetation and
Stripped	Matrix (S6)		Red Parent Ma	aterial (F	21) (ML F	(A 145)		nd hydrology must be present,
Restrictive L	_ayer (if observed):						unless	s disturbed or problematic.
Type:	,							
Depth (ir	nches):						Hydric Soil Prese	nt? Yes X No
Remarks:								



Wetland P3-B - View facing south



Wetland P3-B - Soils

SITE PHOTOGRAPHS

Segment 4 and 5 – Package 3

U.S. Army Corps of Engineers

WETLAND DETERMINATION DATA SHEET – Northcentral and Northeast Region

See ERDC/EL TR-12-1; the proponent agency is CECW-CO-R

OMB Control #: 0710-0024, Exp: 11/30/2024 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)

Project/Site: CHPE - Package 3		City/County: Moreau / Saratoga County	Sampling Date: 07-19-22
Applicant/Owner: TDI		State: NY	Sampling Point: UPL
Investigator(s): C. Scrivner & J. Greaves		Section, Township, Range:	
Landform (hillside, terrace, etc.): Flat	l ocal re	elief (concave, convex, none): None	Slope %: 0
· · · · · · · · · · · · · · · · · · ·		,	Datum: WGS 84
Subregion (LRR or MLRA): LRR R	Lat: <u>43.24508</u>	Long: -73.59864	
Soil Map Unit Name: Teel silt loam (Te)		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 Hydro	ology significantly disturb	ed? Are "Normal Circumstances" prese	ent? Yes X No
Are Vegetation, Soil, or Hydro	ologynaturally problemat	tic? (If needed, explain any answers in	Remarks.)
SUMMARY OF FINDINGS – Attach	site map showing samp	oling point locations, transects, im	portant features, etc.
	<u>.</u>		
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 he Adjacent upland for P3-B-2, P3-B-6, and P3-	' '	stained access.	
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Indicators (n	ninimum of two required)
Primary Indicators (minimum of one is require	ed; check all that apply)	Surface Soil Cracks	s (B6)
Surface Water (A1)	Water-Stained Leaves (B	9) Drainage Patterns ((B10)
High Water Table (A2)	Aquatic Fauna (B13)	Moss Trim Lines (B	16)
Saturation (A3)	Marl Deposits (B15)	Dry-Season Water	Table (C2)
Water Marks (B1)	Hydrogen Sulfide Odor (C	C1) Crayfish Burrows (0	C8)
Sediment Deposits (B2)	Oxidized Rhizospheres or	n Living Roots (C3) Saturation Visible o	n Aerial Imagery (C9)
Drift Deposits (B3)	Presence of Reduced Iron	n (C4) Stunted or Stressed	d Plants (D1)
Algal Mat or Crust (B4)	Recent Iron Reduction in	Tilled Soils (C6) Geomorphic Position	on (D2)
Iron Deposits (B5)	Thin Muck Surface (C7)	Shallow Aquitard (D	03)
Inundation Visible on Aerial Imagery (B7	· 		, ,
Sparsely Vegetated Concave Surface (B	88)	FAC-Neutral Test (D5)
Field Observations:			
Surface Water Present? Yes	No X Depth (inches):		
Water Table Present? Yes Saturation Present? Yes	No X Depth (inches):		
<u> </u>	No X Depth (inches):	Wetland Hydrology Present?	Yes No _X
(includes capillary fringe)			
Describe Recorded Data (stream gauge, mo	nitoring well, aerial photos, prev	rious inspections), if available:	
Remarks:			

EGETATION – Use scientific names of pla	Absolute	Dominant	Indicator		-
Tree Stratum (Plot size:30')	% Cover	Species?	Status	Dominance Test worksheet:	
<u></u>				Number of Dominant Species	
·				That Are OBL, FACW, or FAC:	1 (A)
				Total Number of Dominant	(5)
·				Species Across All Strata:	6 (B)
·				Percent of Dominant Species	·· (4/D)
•					6.7% (A/B)
		= : : 2 : : : : :		Prevalence Index worksheet:	
		=Total Cover			tiply by:
apling/Shrub Stratum (Plot size: 15')		••	=: 011	OBL species 0 x 1 =	0
. Lonicera morrowii	10	Yes	FACU	FACW species 25 x 2 =	50
·				FAC species 8 x 3 =	24
				FACU species 68 x 4 =	272
				UPL species 25 x 5 =	125
·				Column Totals: 126 (A)	471 (B)
·				Prevalence Index = B/A =	3.74
·				Hydrophytic Vegetation Indicators:	
	10	=Total Cover		1 - Rapid Test for Hydrophytic Vege	tation
Herb Stratum (Plot size: 5')				2 - Dominance Test is >50%	
. Impatiens capensis	25	Yes	FACW	3 - Prevalence Index is ≤3.0 ¹	
. Daucus carota	20	Yes	UPL	4 - Morphological Adaptations ¹ (Products in Remarks or on a separate	
Galium mollugo	20	Yes	FACU	data in Remarks or on a separate	sheet)
. Phytolacca americana	10	No	FACU	Problematic Hydrophytic Vegetation	ı ¹ (Explain)
. Taraxacum officinale	5	No	FACU	¹ Indicators of hydric soil and wetland hydric	drology must b
S. Artemisia vulgaris	5	No	UPL	present, unless disturbed or problematic	
7. Arctium minus	5	No	FACU	Definitions of Vegetation Strata:	
B. Dactylis glomerata	5	No	FACU	Tree – Woody plants 3 in. (7.6 cm) or m	ore in diamete
Solanum dulcamara	5	No	FAC	at breast height (DBH), regardless of he	
10.				Sapling/shrub – Woody plants less than	n 3 in. DBH
1				and greater than or equal to 3.28 ft (1 m	
2				Herb – All herbaceous (non-woody) plar	nte renardless
	100	=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
. Parthenocissus quinquefolia	5	Yes	FACU	height.	
2. Vitis aestivalis	5	Yes	FACU		
	3	No	FACU	Hydrophytic Vegetation	
3. Celastrus orbiculatus		NI.	FAC	Present? Yes No	Χ
Celastrus orbiculatus Toxicodendron radicans	3	No	FAC	· — — —	· · · · ·

SOIL Sampling Point: UPL

	ription: (Describe t	o the de				or or co	nfirm the absence of i	ndicators.)	
Depth	Matrix			ox Featur					
(inches)	Color (moist)	%	Color (moist)	<u>%</u>	Type ¹	Loc ²	Texture	Rem	arks
0-6	10YR 3/2	100					Loamy/Clayey	Filled with re	ocks/gravel
			-						
				· ——					
			•	· ——					_
				. —					_
1Type: C=Co	ncentration, D=Deple	etion RM	-Reduced Matrix M	Mack	ed Sand	Grains	² Location: PL	=Pore Lining, M=M	atriv
Hydric Soil I		Juon, ruivi	=reduced Wathx, iv	10-Masic	ca Garia	Oranio.		r Problematic Hyd	
Histosol			Dark Surface ((S7)				ck (A10) (LRR K, L,	
	ipedon (A2)		Polyvalue Belo		ce (S8) (L	.RR R.		airie Redox (A16) (L	
Black His			MLRA 149B		() (,		cky Peat or Peat (S	
	n Sulfide (A4)		Thin Dark Surf	•	(LRR R,	MLRA 1		Below Surface (S8	
	Layers (A5)		High Chroma					k Surface (S9) (LRF	
	Below Dark Surface	(A11)	Loamy Mucky					ganese Masses (F1	
Thick Da	rk Surface (A12)		Loamy Gleyed	l Matrix (l	F2)		Piedmont	t Floodplain Soils (F	19) (MLRA 149B)
Mesic Sp	odic (A17)		Depleted Matri	ix (F3)			Red Pare	ent Material (F21) (o	utside MLRA 145)
(MLR	A 144A, 145, 149B)		Redox Dark S	urface (F	6)		Very Sha	llow Dark Surface (F22)
Sandy M	ucky Mineral (S1)		Depleted Dark	Surface	(F7)		Other (Ex	plain in Remarks)	
Sandy G	eyed Matrix (S4)		Redox Depres	sions (F	8)		<u> </u>		
Sandy Re	edox (S5)		Marl (F10) (LR	RR K, L)			³ Indicator	s of hydrophytic ve	getation and
Stripped	Matrix (S6)		Red Parent Ma	aterial (F	21) (MLR	A 145)	wetland	d hydrology must be	present,
							unless	disturbed or proble	matic.
	ayer (if observed):								
Type:	Rock/	/Fill							
Depth (in	ches):	6					Hydric Soil Presen	t? Yes	No _X
Remarks:									



Upland P3-B & P3-C - View facing west



Upland P3-B and P3-C - Soils

Segment 4 and 5 – Package 3

SITE PHOTOGRAPHS

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: CHPE - CP Rail - Fort Edward to Milton Section	City/County: Saratoga Sampling Date: 11/23/21
Applicant/Owner: CHPE	State: NY Sampling Point: GR-XX-Wet
Investigator(s): KW, KS	Section, Township, Range: Moreau
- ' '	relief (concave, convex, none): Concave Slope %: 0
Subregion (LRR or MLRA): LRR R, MLRA 144A Lat: 43°,14',28.94"N	Long: 73°,36',01.60"W Datum:
Soil Map Unit Name: Rhinebeck Silt 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 disturb	
Are Vegetation, Soil, or Hydrologynaturally problema	tic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing samp	
Hydrophytic Vegetation Present? Yes X No	Is the Sampled Area
Hydric Soil Present? Yes X No	within a Wetland? Yes X No
Wetland Hydrology Present? Yes X No	If yes, optional Wetland Site ID:
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) X Water-Stained Leaves (B	39) X Drainage Patterns (B10)
High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)
X Saturation (A3) — Marl Deposits (B15)	Dry-Season Water Table (C2)
Water Marks (B1) Hydrogen Sulfide Odor (
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):	8 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. Acer rubrum	10	Yes	FAC	
2. Acer negundo	10	Yes	FAC	Number of Dominant Species That Are OBL, FACW, or FAC: 7 (A)
3. 4.				Total Number of Dominant Species Across All Strata: 7 (B)
5. 6.				Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
7.				Prevalence Index worksheet:
	20	=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size:)				OBL species x 1 =
1. Cornus racemosa	15	Yes	FAC	FACW species x 2 =
2. Alnus incana	5	Yes	FACW	FAC species x 3 =
3.				FACU species x 4 =
4.				UPL species x 5 =
5				Column Totals: (A)(B)
6.				Prevalence Index = B/A =
7.				Hydrophytic Vegetation Indicators:
	20	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5')				X 2 - Dominance Test is >50%
1. Poa palustris	20	Yes	FACW	3 - Prevalence Index is ≤3.0 ¹
2. Phalaris arundinacea	15	Yes	FACW	4 - Morphological Adaptations ¹ (Provide supporting
3. Epilobium coloratum	15	Yes	OBL	data in Remarks or on a separate sheet)
4. Phytolacca americana	10	No No	FAC	Problematic Hydrophytic Vegetation ¹ (Explain)
5. Solidago canadensis	5	No	FACU	¹ Indicators of hydric soil and wetland hydrology must
6.				be present, unless disturbed or problematic.
7				Definitions of Vegetation Strata:
8.				Tree – Woody plants 3 in. (7.6 cm) or more in
9		·		diameter at breast height (DBH), regardless of height.
11				Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
12.				Liente All bank coord (non usoak) plante no condice
	65	=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: 15')				We shad a second
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 separ	ate sheet.)	•		
(,			

Sampling Point: GR-XX-Wet

SOIL Sampling Point: GR-XX-Wet

Profile Desc	cription: (Describe t	to the de	pth needed to docu	ment t	he indica	tor or c	onfirm the absence o	f indicators.)
Depth	Matrix			Featur				
(inches)	Color (moist)	<u>%</u>	Color (moist)	%_	Type ¹	Loc ²	Texture	Remarks
0-10	2.5YR 4/1	97	10YR 5/6	3	С	M	Mucky Loam/Clay	Prominent redox concentrations
10-14	5YR 5/1	95	10YR 5/6	5	С	M	Mucky Loam/Clay	Prominent redox concentrations
¹ Type: C=C	oncentration, D=Depl	etion, RN	/I=Reduced Matrix, M	S=Mas	ked Sand	d Grains		L=Pore Lining, M=Matrix.
Hydric Soil								or Problematic Hydric Soils ³ :
Histosol			Polyvalue Belov		ce (S8) (LRR R,		uck (A10) (LRR K, L, MLRA 149B)
	pipedon (A2)		MLRA 149B)		\			rairie Redox (A16) (LRR K, L, R)
	stic (A3) n Sulfide (A4)		Thin Dark Surfa					ucky Peat or Peat (S3) (LRR K, L, R)
	d Layers (A5)		High Chroma S Loamy Mucky N					ue Below Surface (S8) (LRR K, L) rk Surface (S9) (LRR K, L)
	d Below Dark Surface	e (A11)	Loamy Gleyed			IX IX, ∟)		nganese Masses (F12) (LRR K, L, R)
	ark Surface (A12)	,,,,,	X Depleted Matrix		. 2)			nt Floodplain Soils (F19) (MLRA 149B)
	lucky Mineral (S1)		Redox Dark Su		- 6)			podic (TA6) (MLRA 144A, 145, 149B)
Sandy G	Bleyed Matrix (S4)		Depleted Dark	Surface	(F7)		Red Par	ent Material (F21)
Sandy F	Redox (S5)		Redox Depress	ions (F	8)		Very Sh	allow Dark Surface (F22)
	Matrix (S6)		Marl (F10) (LRI	R K, L)			Other (E	xplain in Remarks)
Dark Su	rface (S7)							
3Indiantora	f buduanbutia wa satat	ر المصماد	rational burduals are marr	at ha ni		مالم ممالم	t	
	Layer (if observed):		vetiand hydrology mu	st be pi	resent, ur	ness ais	turbed or problematic.	
Type:	Layer (ii observed).							
Depth (ii	achee).						Hydric Soil Prese	nt? Yes X No
							Tryunc 3011 Frese	
Remarks:	m is revised from No	rthcentra	I and Northeast Regi	anal Su	nnlement	t Varsion	2 0 to include the NR(CS Field Indicators of Hydric Soils,
	2015 Errata. (http://w							50 Field Indicators of Frydric Colle,



Wetland G-R-XX- View facing Southwest



Wetland G-R-XX- Soils

Segment 4 and 5 – Package 3

SITE PHOTOGRAPHS

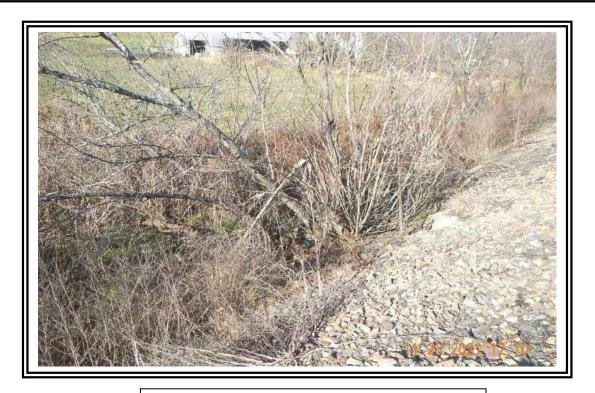
WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: CHPE - CP Rail - Fort Edward to Milton Section	City/County: Saratoga Sampling Date: 11/23/21
Applicant/Owner: CHPE	State: NY Sampling Point: GR-XX-Up
Investigator(s): KW, KS	Section, Township, Range: Moreau
Landform (hillside, terrace, etc.): Footslope Local	relief (concave, convex, none): Concave Slope %: 15
Subregion (LRR or MLRA): LRR R, MLRA 144A Lat: 43°,14',28.94"N	Long: 73°,36',01.60"W Datum:
Soil Map Unit Name: Rhinebeck Silt Loam	NWI classification: None
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	
SUMMARY OF FINDINGS – Attach site map showing sam	
Hydrophytic Vegetation Present? Hydric Soil Present? Yes No X No X No X	Is the Sampled Area within a Wetland? Yes No X
Wetland Hydrology Present? Yes No X	If yes, optional Wetland Site ID:
Remarks: (Explain alternative procedures here or in a separate report.)	
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 (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)	
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	vious inspections), if available:
Demonto	
Remarks:	

			Absolute	Dominant	Indicator	
. Acer negundo 5 Yes FAC That Are OBL, FACW, or FAC: 2 (a Total Number of Dominant Species Areas All Strata: 7 (b Total Number of Dominant Species Areas All Strata: 7 (c Total Number of Dominant Species Areas All Strata: 7 (c Total Number of Dominant Species Areas All Strata: 7 (c Total Number of Dominant Species That Are OBL, FACW, or FAC: 28.8% (c) Prevalence Index worksheet: Total % Cover of: Multiply by: OBL Species x 1 = FACW Species x 2 = FACW Species x 2 = FACW Species x 4 = UPL Specie	Acer negundo	ree Stratum (Plot size:30')	% Cover	Species?	Status	Dominance Test worksheet:
Total Number of Dominant Species Across All Strata: 7 (6 Percent of Dominant Species That Are OBL, FACW, or FAC: 28.6% (6 Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species x 11 = FACW species x 21 = FACW species x 22 = FACW species x 31 = FACW species x 32 = FACW species x 32 = FACW species x 33 = FACW species x 34 = UPL species x 34 = UPL species x 35 = Column Totals: (A) Prevalence Index set BlA = Hydrophytic Vegetation Indicators:	Total Number of Dominant Species Across All Strata: 7 (8) Percent of Dominant Species Trait Are OBL, FACH OBL, FACH OBL, FACH Species Across All Strata: 7 (8) Percent of Dominant Species Trait Are OBL, FACH OBL, FA	. Acer rubrum	5	Yes	FAC	
Ictal Number of Dominant Species 7 (it 10 10 10 10 10 10 10 1	Intal Number of Dominant Species Across All Strate: 7 (B) Percent of Dominant Species That Are OBL, FACW, or FAC: 28.6% (A) Prevalence Index worksheet: Total % Cover of Multiply by: OBL species x 1 = FACW species x 2 = FACW species x 2 = FACW species x 3 = FACW species x 3 = FACW species x 4 = UPL species	. Acer negundo	5	Yes	<u>FAC</u>	That Are OBL, FACW, or FAC:(A)
Percent of Dominant Species That Are OBL, FACW, or FAC: 28.6% (Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species x1 = FACW species x2 = FACW species x3 = FACW species x4 = UPL species x4 =	Percent of Dominant Species That Arc OSU, FACU 28.6% (A) (A)	· .				Total Number of Dominant
Percent of Dumants Species Faction Facti	Percent of bommant Species 28.6% (A)	·				Species Across All Strata: 7 (B)
That Are OBL, FACW, or FAC: 28.6% (Prevalence Index worksheet: 10 =Total Cover 10 =Total Cover Total % Cover of: Multiply by: OBL species x1 = FACW species x2 = FACW species x2 = FACW species x3 = FACW species x3 = FACW species x4 = UPL species x4 = UPL species x5 = Column Totals: (A) Prevalence Index = B/A = Hydrophytic Vegetation Indicators: 10 =Total Cover In Setatia faberi 25 Yes FACU Verbascum thapsus 5 No UPL FACU species x5 = 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 2 - Dominance Seta in Remarks or on a separate sheety Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Definitions of Vegetation Stratus Tree - Woody plants Is set than 3.0 in, DB and greater than 0 3.28 ft (1 m) tall. Woody Vine Stratum (Plot size: 15') Rubus alleghaniensis 10 Yes FACU Hydrophytic Vegetation Present? Yes No X	That Are OBL, FACW, or FAC: 28.6% (A) Prevalence Index worksheet:					Percent of Dominant Species
Total Cover Total Cover Total Cover OBL species x 1 =	Total Cover Total % Cover of: Multiply by:	i				
Sealing/Shrub Stratum (Plot size: 15')	Sealing/Shrub Stratum (Plot size: 15')		. <u></u>			Prevalence Index worksheet:
FACW species X 2 = FACW species X 3 = FACW species X 3 = FACW species X 3 = FACW species X 4 = TACW species X 5 = TACW species X 4 = TACW species X 5	FACW species X 2 = FACW species X 3 = FACW species X 3 = FACW species X 4 = FACW species X 5 =		10	=Total Cover		Total % Cover of: Multiply by:
Rhus typhina	Rhus typhina 5 Yes UPL FAC species x 3 = Lonicera tatarica 5 Yes FACU FACU species x 4 = . UPL species x 5 = Column Totals: (A) (A) . UPL species x 5 = Column Totals: (A) (A) . UPL species x 5 = Column Totals: (A) (A) (A) (A) (A) (A) (Brown totals: (A) (A) (A) (A) (A) (Brown totals: (A) (A) (A) (Brown totals: (A) (A) (Brown totals: (A) (A) (Brown totals: (A) (A) (Brown totals:	apling/Shrub Stratum (Plot size: 15')			OBL species x 1 =
Lonicera tatarica 5 Yes FACU FACU species	. Lonicera tatarica . Lonice tatic test for hydroptic Vegetation (Explain) . Lonice test is >50% . Lonical test for hydrophytic Vegetation (Explain) . Lonicera tatarics or on a separate sheet) . Lonice test is >50% . Lonical test is >50% . Lonical test is >50% . Lonical test for hydrophytic Vegetation hydrophytic vegetation vegetates of hydrophytic vegetation vegetates of size, and woody vines greater than 3.28 ft tall. . Lonical test is >50% . Lonical test for hydrophytic vegetation vegetates of size, and woody vines greater than 3.28 ft tall. . Lonical test is >50%	·				FACW species x 2 =
UPL species	UPL species	. Rhus typhina	5	Yes	UPL	FAC species x 3 =
Column Totals:	Column Totals: (A)	. Lonicera tatarica	5	Yes	FACU	FACU species x 4 =
Prevalence Index = B/A = Hydrophytic Vegetation Indicators: 10 =Total Cover 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is \$3.0^1 4 - Morphological Adaptations (Provide support data in Remarks or on a separate sheet) Cirsium arvense 5 No UPL Hackelia virginiana 5 No UPL Schizachyrium scoparium 15 Yes FACU 1 Indicators of hydric soil and wetland hydrology mube 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. DB and greater than or equal to 3.28 ft tall. Woody Vine Stratum (Plot size: 15') Rubus allegheniensis 10 Yes FACU Hydrophytic Vegetation Woody vines - All woody vines greater than 3.28 height. Hydrophytic Vegetation Hydrophytic Vegetation Hydrophytic Vegetation 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is \$3.0^1 4 - Morphological Adaptations (Provide support data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation 1 (Explain 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is \$3.0^1 4 - Morphological Adaptations (Provide support data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation 1 (Explain 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is \$3.0^1 4 - Morphological Adaptations (Provide support data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation 1 (Explain 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is \$3.0^1 4 - Morphological Adaptations (Provide support data in Remarks or on a separate sheet) 1 - A - Morphological Adaptations (Provide support data in Remarks or on a separate sheet) 1 - A - Morphological Adaptations (Provide support data in Remarks or on a separate sheet) 1 - A - Morphological Adaptations (Prov	Prevalence Index = B/A =	·	<u> </u>			UPL species x 5 =
Hydrophytic Vegetation Indicators: 10	Hydrophytic Vegetation Indicators: 10	•				Column Totals:(A)(B
10	10 =Total Cover 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.01 4 - Morphological Adaptations¹ (Provide support data in Remarks or on a separate sheet) 4 - Morphological Adaptations¹ (Provide support data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain) Schizachyrium scoparium 15 Yes FACU Problematic Hydrophytic Vegetation¹ (Explain) Indicators of hydric soil and wetland hydrology mus 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 Tree - All herbaceous (non-woody) plants, regardle of size, and woody plants less than 3.28 ft height. Herb - All herbaceous (non-woody) plants, regardle of size, and woody vines greater than 3.28 ft height. Hydrophytic Vegetation Yes FACU Hydrophytic Vegetation Present? Yes No X Yes No X No X Yes Yes No X Yes No X Yes No X Yes Yes No X Yes Yes No X Yes Yes No X Yes Yes Xes Yes Xes Yes Xes Yes Xes Yes Xes Yes Xes Xes Yes Xes Yes Xes Xes Xes Yes Xes Xes Yes Xes Xes Yes Xes Yes Xes Xes Yes Xes Xes Yes X					Prevalence Index = B/A =
Setaria faberi 25 Yes	Setaria faberi 25	·				Hydrophytic Vegetation Indicators:
. Setaria faberi 25 Yes FACU 3 - Prevalence Index is ≤3.0¹ . Verbascum thapsus 5 No UPL 4 - Morphological Adaptations¹ (Provide suppodata in Remarks or on a separate sheet) . Cirsium arvense 5 No UPL Problematic Hydrophytic Vegetation¹ (Explain . Schizachyrium scoparium 15 Yes FACU . Schizachyrium scoparium 15 Yes FACU . Definitions of Vegetation Strata: Tree – Woody plants 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. Sapling/shrub – Woody plants less than 3 in. DBI and greater than or equal to 3.28 ft (1 m) tall. 2. Woody Vine Stratum (Plot size: 15') 15 3. Prevalence Index is scored at the proper data in Remarks or on a separate sheet) 4 - Morphological Adaptations¹ (Provide support data in Remarks or on a separate sheet) 10 Definitions of Vegetation Strata: Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height Woody Vine Stratum (Plot size: 15') Woody vines – All woody vines greater than 3.28 ft tall. Woody vines – All woody vines greater than 3.28 ft tall. Hydrophytic Veget	. Setaria faberi . Verbascum thapsus . Definitions of Vegetation Stratum . Cirsium arvense . Each of the set of size, and woody plants less than 3.28 ft height. . Rubus allegheniensis . Setaria faberi . Verbascum thapsus . So No . Cirsium arvense . Definitions of Vegetation 1 (Explain) . Schizachyrium scoparium . Definitions of Negetation Strata: . Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height and greater than or equal to 3.28 ft (1 m) tall. . Herb – All herbaceous (non-woody) plants, regardles of size, and woody plants less than 3.28 ft height. . Woody Vine Stratum (Plot size: 15') . Rubus allegheniensis . 10 Yes FACU Hydrophytic Vegetation Present? Yes No X		10	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Verbascum thapsus	Verbascum thapsus	lerb Stratum (Plot size:5')				2 - Dominance Test is >50%
. Cirsium arvense	. Cirsium arvense . Hackelia virginiana . Schizachyrium scoparium . Schizachyrium schizachyr	. Setaria faberi	25	Yes	FACU	3 - Prevalence Index is ≤3.0 ¹
. Hackelia virginiana . Schizachyrium scoparium . Definitions of Vegetation Strata: . Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of heigened and greater than or equal to 3.28 ft (1 m) tall. 2. Sapling/shrub – Woody plants less than 3 in. DBI and greater than or equal to 3.28 ft (1 m) tall. 4. Woody Vine Stratum (Plot size: 15') . Rubus allegheniensis 10 Yes FACU Hydrophytic Vegetation Present? Yes No X	. Hackelia virginiana . Schizachyrium scoparium . Seficial schizach schizach size in Indicators of hydric soil and wetland hydrology mus 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 and greater than 0 requal to 3.28 ft (1 m) tall. 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: 15') . Rubus allegheniensis 10 Yes FACU Hydrophytic Vegetation Present? Yes No X	. Verbascum thapsus	5	No	UPL	4 - Morphological Adaptations ¹ (Provide supportin
15 Yes FACU 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. DBI and greater than or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regard of size, and woody plants less than 3.28 ft tall. Woody Vine Stratum (Plot size: 15') Rubus allegheniensis 10 Yes FACU Woody vines – All woody vines greater than 3.28 height. Hydrophytic Vegetation Present? Yes No X	Schizachyrium scoparium 15 Yes FACU Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.	. Cirsium arvense	5	No	FACU	data in Remarks or on a separate sheet)
Indicators of hydrosoly flat be present, unless disturbed or problematic.	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 (DBH), regardless of height and greater than or equal to 3.28 ft (1 m) tall. Bernard of Vegetation Strata: Tree – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardles of size, and woody plants less than 3.28 ft tall. Woody Vine Stratum (Plot size: 15') Rubus allegheniensis 10 Yes FACU Hydrophytic Vegetation Present? Yes No X	. Hackelia virginiana	5	No	UPL	Problematic Hydrophytic Vegetation ¹ (Explain)
be present, unless disturbed or problematic. Definitions of Vegetation Strata: Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub – Woody plants less than 3 in. DBI and greater than or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regard of size, and woody plants less than 3.28 ft tall. Woody Vine Stratum (Plot size: 15') Rubus allegheniensis 10 Yes FACU Hydrophytic Hydrophytic Vegetation Present? Yes No X	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 (DBH), regardless	Schizachyrium scoparium	15	Yes	FACU	¹ Indicators of hydric soil and wetland hydrology must
Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub – Woody plants less than 3 in. DBI and greater than or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regard of size, and woody plants less than 3.28 ft tall. Woody Vine Stratum (Plot size: 15') Rubus allegheniensis 10 Yes FACU Hydrophytic Hydrophytic Vegetation Present? Yes No X	Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height of the plant of the pl	3				
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. DBI and greater than or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regard of size, and woody plants less than 3.28 ft tall. Woody Vine Stratum (Plot size: 15') Rubus allegheniensis 10 Yes FACU Hydrophytic Hydrophytic Vegetation Present? Yes No X	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 and greater than or equal to 3.28 ft (1 m) tall. Herb — All herbaceous (non-woody) plants, regardles of size, and woody plants less than 3.28 ft tall. Woody Vine Stratum (Plot size: 15') Rubus allegheniensis 10 Yes FACU					Definitions of Vegetation Strata:
diameter at breast height (DBH), regardless of height. Sapling/shrub – Woody plants less than 3 in. DBI and greater than or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regard of size, and woody plants less than 3.28 ft tall. Woody Vine Stratum (Plot size: 15') Rubus allegheniensis 10 Yes FACU Hydrophytic Hydrophytic Vegetation Present? Yes No X	diameter at breast height (DBH), regardless of height Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardles of size, and woody plants less than 3.28 ft tall. Woody Vine Stratum (Plot size: 15') Rubus allegheniensis 10 Yes FACU		.			Tree – Woody plants 3 in. (7.6 cm) or more in
1	1					diameter at breast height (DBH), regardless of height.
and greater than or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regard of size, and woody plants less than 3.28 ft tall. Woody Vine Stratum (Plot size: 15') Rubus allegheniensis 10 Yes FACU Hydrophytic Hydrophytic Vegetation Present? Yes No X	and greater than or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardled of size, and woody plants less than 3.28 ft tall. Woody Vine Stratum (Plot size: 15') Rubus allegheniensis 10 Yes FACU Woody vines — All woody vines greater than 3.28 ft height. Hydrophytic Vegetation Present? Yes No X	0	.			Sapling/shrub – Woody plants less than 3 in. DBH
Statum Stratum Stratum Stratum Statum	S5 =Total Cover Stratum (Plot size: 15')	1				1
S5	Statum Stratum Stratum Statum Statum Statum Statum Statum Statum Stratum Statum	2				Herb – All herbaceous (non-woody) plants, regardless
Rubus allegheniensis 10 Yes FACU height. Hydrophytic Vegetation Present? Yes No X	Rubus allegheniensis 10 Yes FACU height. Hydrophytic Vegetation Present? Yes No X		55	=Total Cover		
. Rubus allegheniensis 10 Yes FACU height. Hydrophytic Vegetation Present? Yes No X	. Rubus allegheniensis 10 Yes FACU height. Hydrophytic Vegetation Present? Yes No X	Voody Vine Stratum (Plot size:15')			Woody vines – All woody vines greater than 3.28 ft in
Hydrophytic Vegetation Present? Yes No X	Hydrophytic Vegetation Present? Yes No X	. Rubus allegheniensis	10	Yes	FACU	
Vegetation	Vegetation Present? Yes No X	<u> </u>				
Present? Yes No X	Present? Yes No X 10 =Total Cover	s	<u> </u>			
=Total Cover						
	Remarks: (Include photo numbers here or on a separate sheet.)		10	=Total Cover		
Remarks: (Include photo numbers here or on a separate sheet.)		Remarks: (Include photo numbers here or on a sep	_	- rotal Cover		

SOIL Sampling Point: GR-XX-Up

		the dep				tor or co	onfirm the absence of indica	tors.)
Depth	Matrix			x Featur		. 2	- .	Б
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type ¹	Loc ²	Texture	Remarks
			_					
				' <u></u>	·			
			-					
		—						
1			De desert Matrix A	10. 14.			21	Literan Ballander
	ncentration, D=Deple	etion, Rivi	Reduced Matrix, I	/IS=Mas	ked Sand	Grains.	² Location: PL=Pore	
Hydric Soil I			Dalumalus Dala	0	(CO) (I	DD D		lematic Hydric Soils ³ :
Histosol (` '	-	Polyvalue Belo		ce (58) (I	-KK K,) (LRR K, L, MLRA 149B)
	ipedon (A2)		MLRA 149B	•	/	MI DA 4		edox (A16) (LRR K, L, R)
Black His		-	Thin Dark Surf					at or Peat (S3) (LRR K, L, R)
	Sulfide (A4)	-	High Chroma S					Surface (S8) (LRR K, L)
	Layers (A5)	<u>-</u>	Loamy Mucky			K K, L)		ce (S9) (LRR K, L)
	Below Dark Surface	(A11) <u>-</u>	Loamy Gleyed		F2)			Masses (F12) (LRR K, L, R)
	rk Surface (A12)	-	Depleted Matri		-0)			olain Soils (F19) (MLRA 149B)
Sandy Mucky Mineral (S1)			Redox Dark Su					A6) (MLRA 144A, 145, 149B)
Sandy Gleyed Matrix (S4)			Depleted Dark				Red Parent Mate	
Sandy Redox (S5)			Redox Depres		8)			ark Surface (F22)
Stripped Matrix (S6)			Marl (F10) (LR	RK, L)			Other (Explain in	n Remarks)
Dark Sur	face (S7)							
3								
		on and we	tiand nydrology mi	ust be pr	esent, ur	iless dist	urbed or problematic.	
	ayer (if observed):							
Type:	cobble/ba	allast						
Depth (in	ches):	0					Hydric Soil Present?	Yes No _X_
Remarks:								
No soil hole o	lug due to ballast side	eslope ad	acent to wetland b	oundary	•			



Upland G-R-XX- View facing Northwest



Upland G-R-XX- View facing Northwest

Segment 4 and 5 – Package 3

SITE PHOTOGRAPHS

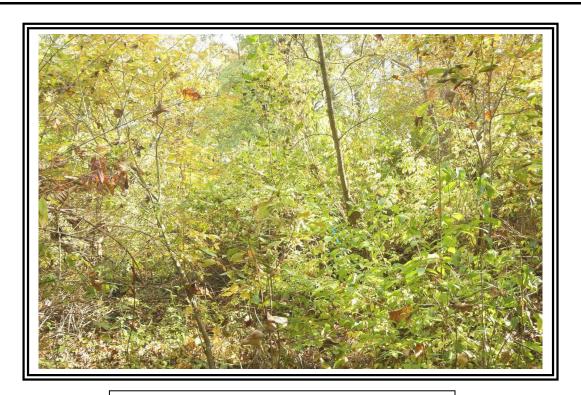
WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: CHPE - Package 3 - Along N. River Road - MP 136.95	City/County: Saratoga Sampling Date: 10/12/22				
Applicant/Owner: CHPE	State: NY Sampling Point: G-P3-T_WET				
Investigator(s): KW, KS	Section, Township, Range: Gaansvort				
Landform (hillside, terrace, etc.): Lake Plain Local	relief (concave, convex, none): Concave Slope %: 0				
Subregion (LRR or MLRA): LRR R, MLRA 144A Lat: 43°,14',40.59"N	Long: 73°,36',00.43"W Datum:				
Soil Map Unit Name: Hudson Silty Loam	NWI classification: PFO				
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes X No (If no, explain in Remarks.)				
Are Vegetation, Soil, or Hydrology significantly distur	` ` ` `				
Are Vegetation , Soil , or Hydrology naturally problems					
					
SUMMARY OF FINDINGS – Attach site map showing sam	Thing point locations, transects, important leatures, 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.)					
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 (I	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 (
Sediment Deposits (B2) Oxidized Rhizospheres					
Drift Deposits (B3) Presence of Reduced Iro					
Algal Mat or Crust (B4) Recent Iron Reduction ir	. , , ,				
Iron Deposits (B5) Thin Muck Surface (C7)					
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remar					
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)				
Field Observations:					
Surface Water Present? Yes No X Depth (inches):					
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	evious inspections), if available:				
Remarks:					
Remarks:					

Trop Stratum (Plot size: 20)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
Tree Stratum (Plot size: 30')		Species?		Dominance Test Worksheet:
1. Acer negundo	25	Yes	FAC	Number of Dominant Species
2. Acer rubrum	20	Yes	FAC	That Are OBL, FACW, or FAC: 4 (A)
3. Fraxinus americana	10	No	FACU	Total Number of Dominant
4. Ulmus americana	10	No	FACW	Species Across All Strata: 6 (B)
5				Percent of Dominant Species
6.				That Are OBL, FACW, or FAC: 66.7% (A/B)
7				Prevalence Index worksheet:
	65	=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size:)				OBL species x 1 =
1. Cornus amomum	25	Yes	FACW	FACW species x 2 =
2. Lonicera tatarica	5	No	FACU	FAC species x 3 =
3.				FACU species x 4 =
4.				UPL species x 5 =
5.				Column Totals: (A) (B)
6.				Prevalence Index = B/A =
7.				Hydrophytic Vegetation Indicators:
	30	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5')				X 2 - Dominance Test is >50%
1.				3 - Prevalence Index is ≤3.0 ¹
Alliaria petiolata	10	Yes	FACU	4 - Morphological Adaptations ¹ (Provide supporting
Lysimachia nummularia	10	Yes	FACW	data in Remarks or on a separate sheet)
		163	TACW	Problematic Hydrophytic Vegetation ¹ (Explain)
				Problematic Hydrophytic Vegetation (Explain)
5.				¹ Indicators of hydric soil and wetland hydrology must
6.				be present, unless disturbed or problematic.
7				Definitions of Vegetation Strata:
8.				Tree – Woody plants 3 in. (7.6 cm) or more in
9.				diameter at breast height (DBH), regardless of height.
10				Sapling/shrub – Woody plants less than 3 in. DBH
11				and greater than or equal to 3.28 ft (1 m) tall.
12				Herb – All herbaceous (non-woody) plants, regardless
	20	=Total Cover		of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size:)				Woody vines – All woody vines greater than 3.28 ft in
Parthenocissus quinquefolia	5	Yes	FACU	height.
2.				
3.				Hydrophytic Vegetation
4.				Present? Yes X No
	5	=Total Cover		
Remarks: (Include photo numbers here or on a separ	ate sheet)			
Tremane. (molade priote nambore note of on a copar	ato onoot.,			

Sampling Point: G-P3-T_WET

Depth	Matrix		Redo	x Featur				
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-8	7.5YR 5/2	100					Loamy/Clayey	
8-12	10YR 3/2	95	10YR 4/6	5	C	<u>M</u>	Loamy/Clayey	Prominent redox concentrations
					_			
Type: C=Co	 oncentration, D=Depl	etion RN		 /S=Mas	ked San	d Grains	2l ocation: P	PL=Pore Lining, M=Matrix.
Hydric Soil		Guon, ran	i-i teduced Matrix, it	io-ivias	ikeu Jan	d Grains.		or Problematic Hydric Soils ³ :
Histosol			Polyvalue Belo	w Surfa	ce (S8) (LRR R.		uck (A10) (LRR K, L, MLRA 149B)
	oipedon (A2)		MLRA 149B		(- / (,		rairie Redox (A16) (LRR K, L, R)
Black His			Thin Dark Surf	•) (LRR R	, MLRA 1		icky Peat or Peat (S3) (LRR K, L, R)
	n Sulfide (A4)		High Chroma S				-	ie Below Surface (S8) (LRR K, L)
Stratified	Layers (A5)		Loamy Mucky	Mineral	(F1) (LR	RK, L)	Thin Dar	rk Surface (S9) (LRR K, L)
Depleted	d Below Dark Surface	(A11)	Loamy Gleyed	Matrix ((F2)		Iron-Mar	nganese Masses (F12) (LRR K, L, R)
Thick Da	ark Surface (A12)		Depleted Matri	x (F3)			Piedmor	nt Floodplain Soils (F19) (MLRA 149B
Sandy M	lucky Mineral (S1)		X Redox Dark Su	ırface (F	- 6)		Mesic S	podic (TA6) (MLRA 144A, 145, 149B)
Sandy G	leyed Matrix (S4)		Depleted Dark	Surface	e (F7)		Red Par	rent Material (F21)
Sandy R	edox (S5)		Redox Depress		8)			allow Dark Surface (F22)
	Matrix (S6) rface (S7)		Marl (F10) (LR	R K , L)			Other (E	xplain in Remarks)
		on and v	vetland hydrology mu	ıst be pı	resent, u	nless dist	urbed or problematic.	_
	Layer (if observed):							
Type: Depth (ir	nches):						Hydric Soil Prese	nt? Yes X No
								CS Field Indicators of Hydric Soils,
	2015 Errata. (http://w oit possible due to sol					S/nrcs14	2p2_051293.docx)	



Wetland G-P3-T



Wetland G-P3-T- Soils

SITE PHOTOGRAPHS

Project/Site: CHPE - Package 3 - Along N. River Road - MP 136.95	City/County: Saratoga Sampling Date: 10/122/22					
Applicant/Owner: CHPE	State: NY Sampling Point: G-P3-T_UP					
Investigator(s): KW, KS	Section, Township, Range: Gaansvort					
Landform (hillside, terrace, etc.): Lake Plain Local	I relief (concave, convex, none): Concave Slope %: 5					
Subregion (LRR or MLRA): LRR R, MLRA 144A Lat: 43°,14',40.59"N	Long: 73°,36',00.43"W Datum:					
Soil Map Unit Name: Hudson Silty Loam	NWI classification: None					
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.)						
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						
Drift Deposits (B3) Presence of Reduced Inc.						
Algal Mat or Crust (B4) Recent Iron Reduction in	in Tilled Soils (C6) Geomorphic Position (D2)					
Iron Deposits (B5) Thin Muck Surface (C7)						
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remar	arks) 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):						
(includes capillary fringe)						
, , , , ,						
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	evious inspections), if available:					
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	evious inspections), if available:					
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	evious inspections), if available:					
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	evious inspections), if available:					
	evious inspections), if available:					
	evious inspections), if available:					
	evious inspections), if available:					
	evious inspections), if available:					
	evious inspections), if available:					
	evious inspections), if available:					
	evious inspections), if available:					
	evious inspections), if available:					
	evious inspections), if available:					

Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: 3 (A)		
That Are OBL, FACW, or FAC:3 (A)		
Total Number of Descinant		
Total Number of Dominant Species Across All Strata: 8 (B)		
Percent of Dominant Species That Are OBL, FACW, or FAC: 37.5% (A/B)		
Prevalence Index worksheet:		
Total % Cover of: Multiply by:		
OBL species x 1 =		
FACW species x 2 =		
FAC species x 3 =		
FACU species x 4 =		
UPL species x 5 =		
Column Totals: (A)(B)		
Prevalence Index = B/A =		
Hydrophytic Vegetation Indicators:		
1 - Rapid Test for Hydrophytic Vegetation		
2 - Dominance Test is >50%		
3 - Prevalence Index is ≤3.0 ¹		
4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)		
Problematic Hydrophytic Vegetation ¹ (Explain)		
¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.		
Definitions of Vegetation Strata:		
Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.		
Sapling/shrub – Woody plants less than 3 in. DBH		
and greater than or equal to 3.28 ft (1 m) tall.		
Herb – All herbaceous (non-woody) plants, regardless		
of size, and woody plants less than 3.28 ft tall.		
Woody vines – All woody vines greater than 3.28 ft in		
height.		
Hydrophytic		
Vegetation Present? Yes No X		
100 <u>-x</u>		
-		

Sampling Point: G-P3-T_UP

SOIL Sampling Point G-P3-T_UP

	-	the dep				tor or co	onfirm the absence of ind	licators.)
Depth (inches)	Matrix Color (moist)	%		x Featur	es Type ¹	Loc ²	Toyturo	Pomorko
(inches)	Color (moist)	70	Color (moist)	%	Туре	LOC	Texture	Remarks
0-12	7.5YR 4/2	100					Loamy/Clayey	
								
	·							
¹Type: C=Co	ncentration, D=Deple	tion RM:	=Reduced Matrix N	/S=Mas	ked Sand	d Grains	² l ocation: PI =Pe	ore Lining, M=Matrix.
Hydric Soil I	•	1011, 1111	Troduced Matrix, II	io inac	Rou Guile	oranio.		roblematic Hydric Soils ³ :
Histosol			Polyvalue Belo	w Surfa	ce (S8) (I	LRR R,		A10) (LRR K, L, MLRA 149B)
	ipedon (A2)		MLRA 149B		(- / (,		e Redox (A16) (LRR K, L, R)
Black His			Thin Dark Surf	, ace (S9)	(LRR R	, MLRA 1		Peat or Peat (S3) (LRR K, L, R)
Hydrogei	n Sulfide (A4)	•	High Chroma S	Sands (S	611) (LRF	R K, L)	Polyvalue Be	elow Surface (S8) (LRR K, L)
Stratified	Layers (A5)	-	Loamy Mucky	Mineral	(F1) (LRI	R K, L)	Thin Dark Su	urface (S9) (LRR K, L)
Depleted	Below Dark Surface	(A11)	Loamy Gleyed	Matrix (F2)		Iron-Mangan	ese Masses (F12) (LRR K, L, R)
Thick Da	rk Surface (A12)	_	Depleted Matri	x (F3)			Piedmont Flo	oodplain Soils (F19) (MLRA 149B)
Sandy M	ucky Mineral (S1)		Redox Dark Su	ırface (F	6)		Mesic Spodio	c (TA6) (MLRA 144A, 145, 149B)
Sandy G	leyed Matrix (S4)		Depleted Dark	Surface	(F7)		Red Parent N	Material (F21)
Sandy R	edox (S5)	-	Redox Depress		8)			v Dark Surface (F22)
	Matrix (S6)		Marl (F10) (LR	RK, L)			Other (Expla	in in Remarks)
Dark Sur	face (S7)							
31	h		. 41 41	4 1			ank a diamana klama dia	
	hydrophytic vegetatio	on and we	etiand nydrology mi	ist be pr	esent, ur	iless dist	urbed or problematic.	
Type:	.ayer (if observed):							
-								
Depth (in	ches):						Hydric Soil Present?	Yes No _X
Version 7.0, 2	m is revised from Nort 2015 Errata. (http://ww it possible due to solid	ww.nrcs.u	ısda.gov/Internet/F	SE_DOC	CUMENT			ield Indicators of Hydric Soils,



Upland G-P3-T



Upland G-P3-T- Soils

Segment 4 and 5 – Package 3

SITE PHOTOGRAPHS

Project/Site: CHPE - Package 3 - Along N. River Road - MP 137.05	City/County: Saratoga Sampling Date: 10/12/22				
Applicant/Owner: CHPE	State: NY Sampling Point: G-P3-S_WET				
Investigator(s): KW, KS	Section, Township, Range: Gaansvort				
• ` `	relief (concave, convex, none): Concave Slope %: 5				
Subregion (LRR or MLRA): LRR R, MLRA 144A Lat: 43°,14',22.46"N	Long: 73°,36',03.66"W Datum:				
Soil Map Unit Name: Hudson Silty 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 disturb					
Are Vegetation , Soil , or Hydrology naturally problems					
SUMMARY OF FINDINGS – Attach site map showing sam	pling point locations, transects, important leatures, 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.)					
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 (B46)					
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 Deposits (B2)					
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 X No Depth (inches):					
Water Table Present? Yes No X Depth (inches):					
Saturation Present? Yes X No Depth (inches):	: 8 Wetland Hydrology Present? Yes X No				
(includes capillary fringe)					
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	evious inspections), if available:				
Remarks:					

<u>Tree Stratum</u> (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:		
Acer saccharinum	70 COVE	Yes	FACW	Dominance rest worksheet.		
Fraxinus americana	5	Yes	FACU	Number of Dominant Species That Are OBL, FACW, or FAC: 5 (A)		
3. Acer negundo	5	Yes	FAC			
4.	-	165	TAC	Total Number of Dominant Species Across All Strata: 7 (B)		
5 6				Percent of Dominant Species That Are OBL, FACW, or FAC: 71.4% (A/B)		
7				Prevalence Index worksheet:		
	20	=Total Cover		Total % Cover of: Multiply by:		
Sapling/Shrub Stratum (Plot size:15')				OBL species x 1 =		
1. Cornus amomum	35	Yes	FACW	FACW species x 2 =		
2. Salix nigra	10	Yes	OBL	FAC species x 3 =		
3. Rhus typhina	5	No	UPL	FACU species x 4 =		
4				UPL species x 5 =		
5.				Column Totals: (A) (B)		
6.				Prevalence Index = B/A =		
7.	<u> </u>			Hydrophytic Vegetation Indicators:		
	50	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation		
Herb Stratum (Plot size: 5')				X 2 - Dominance Test is >50%		
1. Lythrum salicaria	10	No	OBL	3 - Prevalence Index is ≤3.0 ¹		
2. Phalaris arundinacea	55	Yes	FACW	4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)		
3				-		
4	-			Problematic Hydrophytic Vegetation ¹ (Explain)		
5 6				¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.		
7.				Definitions of Vegetation Strata:		
8.	' <u> </u>			Tree – Woody plants 3 in. (7.6 cm) or more in		
9.				diameter at breast height (DBH), regardless of height.		
10 11.				Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.		
12.						
	65	=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: 15')	1					
1. Rubus canadensis	5	Yes	UPL	Woody vines – All woody vines greater than 3.28 ft in height.		
2.						
				Hydrophytic		
3				Vegetation Present? Yes X No		
3				11000Ht. 100 // 110		
3. 4.	5	=Total Cover				

Sampling Point: G-P3-S_WET

	cription: (Describe t	o the de				tor or c	onfirm the absence o	of indicators.)	
Depth	Matrix		Redox	k Featur					
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks	
0-6	10YR 3/2	100					Loamy/Clayey		
6-12	10YR 3/1	95	10YR 4/6	5	<u>C</u>	M	Loamy/Clayey	Prominent redox concentrations	
						_			
¹ Type: C=C	oncentration, D=Deple	etion. RM	I=Reduced Matrix. M	IS=Mas	ked Sand	Grains.	² Location: F	PL=Pore Lining, M=Matrix.	
Hydric Soil		,	,					for Problematic Hydric Soils ³ :	
Histosol			Polyvalue Belo	w Surfa	ce (S8) (I	LRR R,		uck (A10) (LRR K, L, MLRA 149B)	
	pipedon (A2)		MLRA 149B)		, , ,			rairie Redox (A16) (LRR K, L, R)	
	istic (A3)		Thin Dark Surfa	ace (S9)	(LRR R	MLRA		ucky Peat or Peat (S3) (LRR K, L, R)	
Hydroge	en Sulfide (A4)		High Chroma S		-		· · · · · · · · · · · · · · · · · · ·	ue Below Surface (S8) (LRR K, L)	
	d Layers (A5)		Loamy Mucky I					rk Surface (S9) (LRR K, L)	
	d Below Dark Surface	(A11)	Loamy Gleyed			, ,	Iron-Manganese Masses (F12) (LRR K, L, R)		
	ark Surface (A12)	,	Depleted Matrix		,			nt Floodplain Soils (F19) (MLRA 149B)	
	Mucky Mineral (S1)		X Redox Dark Su		6)			podic (TA6) (MLRA 144A, 145, 149B)	
	Gleyed Matrix (S4)		Depleted Dark					rent Material (F21)	
	Redox (S5)		Redox Depress					allow Dark Surface (F22)	
	d Matrix (S6)		Marl (F10) (LRI	-	,			Explain in Remarks)	
	ırface (S7)			, -,			(,	
	of hydrophytic vegetati	on and w	etland hydrology mu	ıst be pr	esent, ur	nless dist	turbed or problematic.		
	Layer (if observed):								
Type:									
Depth (i	nches):						Hydric Soil Present? Yes X No		
Version 7.0,	rm is revised from Nor 2015 Errata. (http://w pit possible due to soli	ww.nrcs.	usda.gov/Internet/FS	SE_DOC	UMENT			CS Field Indicators of Hydric Soils,	



Wetland G-P3-S



Wetland G-P3-S- Soils

SITE PHOTOGRAPHS

Project/Site: CHPE - Package 3 - Along N. River Road - MP 137.05	City/County: Saratoga Sampling Date: 10/12/22					
Applicant/Owner: CHPE	State: NY Sampling Point: G-P3-S_UP					
Investigator(s): KW, KS	Section, Township, Range: Gaansvort					
	relief (concave, convex, none): Concave Slope %: 0					
Subregion (LRR or MLRA): LRR R, MLRA 144A Lat: 43°,14',22.46"N	Long: 73°,36',03.66"W Datum:					
Soil Map Unit Name: Hudson Silty Loam	NWI classification: None					
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.) bed? 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 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.)						
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 ((C1) Crayfish Burrows (C8)					
Sediment Deposits (B2) Oxidized Rhizospheres	on Living Roots (C3) Saturation Visible on Aerial Imagery (C9)					
Drift Deposits (B3) Presence of Reduced In	ron (C4) Stunted or Stressed Plants (D1)					
Algal Mat or Crust (B4) Recent Iron Reduction in	in Tilled Soils (C6) Geomorphic Position (D2)					
Iron Deposits (B5) Thin Muck Surface (C7)	7) Shallow Aquitard (D3)					
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remar						
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)					
Field Observations:						
Surface Water Present? Yes No _X Depth (inches)	: <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:						

Trae Stratum (Diet size: 20')	Absolute % Cover	Dominant Species?	Indicator	Deminance Test worksheet		
Tree Stratum (Plot size: 30') 1. Fraxinus americana	10	Species? Yes	Status FACU	Dominance Test worksheet:		
Acer negundo	10	Yes	FAC	Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)		
3. 4.				Total Number of Dominant Species Across All Strata: 8 (B)		
5.6.				Percent of Dominant Species That Are OBL, FACW, or FAC:(A/B)		
7				Prevalence Index worksheet:		
	20	=Total Cover		Total % Cover of: Multiply by:		
Sapling/Shrub Stratum (Plot size:)				OBL species x 1 =		
1. Rhus typhina	20	Yes	UPL	FACW species x 2 =		
2. Lonicera tatarica	5	Yes	FACU	FAC species x 3 =		
3.				FACU species x 4 =		
4.				UPL species x 5 =		
5.				Column Totals: (A) (B)		
6.				Prevalence Index = B/A =		
7.				Hydrophytic Vegetation Indicators:		
	25	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation		
Herb Stratum (Plot size: 5')		•		2 - Dominance Test is >50%		
1. Phalaris arundinacea	25	Yes	FACW	3 - Prevalence Index is ≤3.0 ¹		
2. Solidago altissima	10	Yes	FACU	4 - Morphological Adaptations (Provide supporting		
3. Daucus carota	10	Yes	UPL	data in Remarks or on a separate sheet)		
4. Fragaria virginiana	5	No	FACU	Problematic Hydrophytic Vegetation ¹ (Explain)		
5. Lotus corniculatus	10	Yes	FACU			
6. Galium triflorum	5	No	FACU	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.		
7				Definitions of Vegetation Strata:		
8. 9.				Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.		
10 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		
Moody Vine Stratum (Diet size) 151	65	=Total Cover		of size, and woody plants less than 3.28 ft tall.		
Woody Vine Stratum (Plot size:) 1.				Woody vines – All woody vines greater than 3.28 ft in height.		
2				Tioight.		
2				Hydrophytic		
1		·		Vegetation Present? Yes No X		
4.		=Total Cover				
Remarks: (Include photo numbers here or on a separ	ate sheet.)	•				
	,					

Sampling Point: __G-P3-S_UP

SOIL Sampling Point G-P3-S_UP

		to the de				tor or co	onfirm the absence of in	dicators.)
Depth	Matrix	0/		x Featur		1 - 2	T 4	Damanda
(inches)	Color (moist)	%	Color (moist)	<u>%</u>	Type ¹	Loc ²	Texture	Remarks
0-14	10YR 4/3	100					Loamy/Clayey	
		·			·			
								_
¹ Type: C=C	oncentration, D=Depl	etion RN	M=Reduced Matrix N	JS=Mas	ked Sand	l Grains	² Location: PL=F	Pore Lining, M=Matrix.
Hydric Soil	•	ouon, rui	T TOGGGGG WIGHTA, I	vio ivido	nou ounc	· Oranio.		Problematic Hydric Soils ³ :
Histosol			Polyvalue Belo	w Surfa	ce (S8) (I	RR R		(A10) (LRR K, L, MLRA 149B)
	pipedon (A2)		MLRA 149B		00 (00) (-1414 14,		ie Redox (A16) (LRR K, L, R)
	stic (A3)		Thin Dark Surf	•	(I RR R	MIRA 1		Peat or Peat (S3) (LRR K, L, R)
	n Sulfide (A4)		High Chroma S		-			Selow Surface (S8) (LRR K, L)
	l Layers (A5)		Loamy Mucky					Surface (S9) (LRR K, L)
	d Below Dark Surface	(Δ11)	Loamy Gleyed			(I(, L)		nese Masses (F12) (LRR K, L, R)
	ark Surface (A12)	<i>(</i> A11)	Depleted Matri		1 2)			loodplain Soils (F19) (MLRA 149B)
	lucky Mineral (S1)		Redox Dark Su		:6)			lic (TA6) (MLRA 144A, 145, 149B)
	Bleyed Matrix (S4)		Depleted Dark		-			Material (F21)
	ledox (S5)		Redox Depres					w Dark Surface (F22)
	Matrix (S6)		Marl (F10) (LR		5)			ain in Remarks)
	rface (S7)		Wall (I 10) (LIX	.ix ix, L)			Other (Expire	an in Nemarks)
Daik Su	nace (37)							
³ Indicators o	f hydrophytic vegetati	ion and w	etland hydrology mi	ist he nr	esent ur	olace dieti	urhed or problematic	
	Layer (if observed):		retiand hydrology me	ust be pi	CSCIII, UI	iloss dist	игоса от ртовістівно.	
Type:	Layer (ii observed).							
•								
Depth (ii	nches):						Hydric Soil Present?	Yes No _X
Remarks:								
								Field Indicators of Hydric Soils,
	2015 Errata. (http://w oit possible due to sol					S/nrcs142	2p2_051293.docx)	
NO SOILLEST P	nt possible due to soi	เน ธนมธน	ate of copple and die	euge IIIa	ileriai.			



Upland G-P3-S



Upland G-P3-S- Soils

SITE PHOTOGRAPHS

Project/Site: CHPE - CP Rail - Fort Edward to Milton Section	City/County: Saratoga Sampling Date: 11/23/21					
Applicant/Owner: CHPE	State: NY Sampling Point: GR-YY-Wet					
Investigator(s): KW, KS	Section, Township, Range: Moreau					
Landform (hillside, terrace, etc.): Footslope Local re	elief (concave, convex, none): Concave Slope %: 0					
Subregion (LRR or MLRA): LRR R, MLRA 144A Lat: 43°,14',13.46"N	Long: 73°,36',07.10"W Datum:					
Soil Map Unit Name: Rhinebeck Silt Loam	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 disturbed						
Are Vegetation, Soil, or Hydrologynaturally problemati	· · · · · · · · · · · · · · · · · · ·					
SUMMARY OF FINDINGS – Attach site map showing samp						
Hydrophytic Vegetation Present? Yes X No	Is the Sampled Area					
Hydric Soil Present? Yes X No	within a Wetland? Yes X No					
Wetland Hydrology Present? Yes X No	If yes, optional Wetland Site ID:					
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)					
X Surface Water (A1) X Water-Stained Leaves (B9						
High Water Table (A2) Aquatic Fauna (B13) Mad Bassaita (B45)	Moss Trim Lines (B16)					
X Saturation (A3) — Marl Deposits (B15)	Crayfish Burrows (C8)					
Water Marks (B1)Hydrogen Sulfide Odor (C Sediment Deposits (B2) Oxidized Rhizospheres or						
Drift Deposits (B3) Presence of Reduced Iron	<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 Remarks						
Sparsely Vegetated Concave Surface (B8)	X FAC-Neutral Test (D5)					
	7 (No reduct rest (50)					
Field Observations: Surface Water Present? Yes X No Depth (inches):	0					
` ` ` ′ -	8					
Water Table Present? Yes No X Depth (inches): _ Saturation Present? Yes X No Depth (inches): _	10 Wetland Hydrology Present? Yes X No					
(includes capillary fringe)	Wetland Hydrology Fresent: Tes No					
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previ	ious inspections), if available:					
Describe Necorded Bata (stream gauge, monitoring well, dental photos, previ	inapeodoria, ii availabie.					
Remarks:						
1						

	Absolute	Dominant	Indicator	Τ			
ree Stratum (Plot size: 30')	% Cover	Species?	Status	Dominance Test worksheet:			
. Acer rubrum	5	Yes	FAC	Number of Dominant Species			
. Acer negundo	10	Yes	FAC	That Are OBL, FACW, or FAC:	(A)		
Salix nigra	5	Yes	OBL	Total Number of Dominant			
·				Species Across All Strata:	(B)		
5				Percent of Dominant Species			
S				That Are OBL, FACW, or FAC:	100.0%(A/B)		
				Prevalence Index worksheet:			
	20	=Total Cover		Total % Cover of:	Multiply by:		
Sapling/Shrub Stratum (Plot size:)				OBL species	x 1 =		
. Cornus racemosa	15	Yes	FAC	FACW species	x 2 =		
2. Alnus incana	15	Yes	FACW	FAC species	x 3 =		
s. Lonicera tatarica	5	No	FACU	FACU species	x 4 =		
Rhus typhina	5	No	UPL	UPL species	x 5 =		
5.				Column Totals:	(A) (B)		
S				Prevalence Index = B/A			
·				Hydrophytic Vegetation Indic	ators:		
	40	=Total Cover		1 - Rapid Test for Hydrophy	ytic Vegetation		
Herb Stratum (Plot size: 5')				X 2 - Dominance Test is >50%			
1. Poa palustris	10	Yes	FACW	3 - Prevalence Index is ≤3.0			
2. Phalaris arundinacea	10	Yes	FACW	4 - Morphological Adaptatic			
3. Typha latifolia	10	Yes	OBL	data in Remarks or on a			
4. Epilobium coloratum	5	No	FAC	Problematic Hydrophytic Vegetation ¹ (Explain)			
5. Eutrochium maculatum	10	Yes	OBL	1.			
6. Scirpus cyperinus	5	No	OBL	¹ Indicators of hydric soil and we be present, unless disturbed or			
7. Alliaria petiolata	5	No	FACU	Definitions of Vegetation Stra			
3.				_			
9.				Tree – Woody plants 3 in. (7.6 diameter at breast height (DBH)			
10					, -		
				Sapling/shrub – Woody plants and greater than or equal to 3.2			
11					, ,		
12.		-Tatal Cover		Herb – All herbaceous (non-wo			
William Objection (Blot sing) 151	55	=Total Cover		of size, and woody plants less t			
Woody Vine Stratum (Plot size: 15')	-	V		Woody vines – All woody vines	s greater than 3.28 ft ir		
1. Vitis riparia	5	Yes	<u>FAC</u>	height.			
2.				Hydrophytic			
3.				Vegetation			
4				Present? Yes X	No		
	5	=Total Cover					

SOIL Sampling Point: GR-YY-Wet

		o the de				tor or c	onfirm the absence of	f indicators.)	
Depth (inches)	Matrix	%		∢ Featur		Loc ²	Toyturo	Domarko	
(inches)	Color (moist)		Color (moist)		Type ¹		Texture	Remarks	
0-6	5YR 5/2	95	7.5YR 4/6	5	<u> </u>	<u>M</u>	Mucky Loam/Clay	Prominent redox concentrations	
6-14	10YR 5/1	90	10YR 5/6			M	Loamy/Clayey	Prominent redox concentrations	
				_		_			
		<u> </u>		_	<u> </u>	<u> </u>			
¹ Type: C=Ce	oncentration, D=Depl	etion, RN	/I=Reduced Matrix, M	IS=Mas	ked Sand	d Grains.	² Location: P	L=Pore Lining, M=Matrix.	
Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7)			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) (LRI	on the state of th	(LRR R 611) (LRR (F1) (LRI F2) 66) (F7)	, MLRA R K, L) R 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)		
	t hydrophytic vegetati Layer (if observed):	on and v	etland hydrology mu	ist be pr	esent, ur	nless dis	turbed or problematic.		
Type:	Layer (II Observed).								
Depth (ii	nches):						Hydric Soil Presei	nt? Yes <u>X</u> No	
	m is revised from Nor 2015 Errata. (http://w							CS Field Indicators of Hydric Soils,	



Wetland G-R-YY- View facing Northeast



Wetland G-R-YY- Soils

SITE PHOTOGRAPHS

Project/Site: CHPE - CP Rail - Fort Edward to Milton Section	City/County: Saratoga Sampling Date: 11/23/21
Applicant/Owner: CHPE	State: NY Sampling Point: GR-YY-Up
Investigator(s): KW, KS	Section, Township, Range: Moreau
	cal relief (concave, convex, none): Concave Slope %: 10
Subregion (LRR or MLRA): LRR R, MLRA 144A Lat: 43°,14',13.46"N	
Soil Map Unit Name: Rhinebeck Silt Loam	NWI classification: None
•	
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	
_ _	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:
LIMPROLOGY.	
HYDROLOGY	O a considerar la disease a facilitation of the constraint
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	Surface Soil Cracks (B6) S (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 Odd	
	es on Living Roots (C3) Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B3) Presence of Reduced	<u> </u>
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	marks) Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No X Depth (inche	s):
Water Table Present? Yes No X Depth (inche	ss):
Saturation Present? Yes No X Depth (inche	ss): Wetland Hydrology Present? Yes No _X
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, p	previous inspections), if available:
Remarks:	
Remarks.	

	Absolute	Dominant	Indicator	
ree Stratum (Plot size:30')	% Cover	Species?	Status	Dominance Test worksheet:
Acer negundo	5	Yes	FAC	Number of Dominant Species
Acer rubrum	5	Yes	FAC	That Are OBL, FACW, or FAC:3 (A)
Salix nigra	5	Yes		Total Number of Dominant
				Species Across All Strata: 9 (B)
				Percent of Dominant Species
				That Are OBL, FACW, or FAC: 33.3% (A/E
				Prevalence Index worksheet:
	15	=Total Cover		Total % Cover of: Multiply by:
apling/Shrub Stratum (Plot size: 15')	•		OBL species x 1 =
Rhus typhina	5	Yes	UPL	FACW species x 2 =
Lonicera tatarica	20	Yes	FACU	FAC species x 3 =
				FACU species x 4 =
				UPL species x 5 =
				Column Totals: (A) (E
				Prevalence Index = B/A =
	·			
		-Total Cavar		Hydrophytic Vegetation Indicators:
Obstance (Blat share El	25	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
erb Stratum (Plot size: 5')	4-		540 11	2 - Dominance Test is >50%
Solidago canadensis	15	Yes	FACU	3 - Prevalence Index is ≤3.0 ¹
Setaria faberi	25	Yes	FACU	4 - Morphological Adaptations ¹ (Provide support data in Remarks or on a separate sheet)
Schizachyrium scoparium	20	Yes	FACU	
				Problematic Hydrophytic Vegetation ¹ (Explain)
		·		¹ Indicators of hydric soil and wetland hydrology must
				be present, unless disturbed or problematic.
				Definitions of Vegetation Strata:
				Tree – Woody plants 3 in. (7.6 cm) or more in
				diameter at breast height (DBH), regardless of heigh
)				Sapling/shrub – Woody plants less than 3 in. DBH
				and greater than or equal to 3.28 ft (1 m) tall.
2.				Herb – All herbaceous (non-woody) plants, regardle
	60	=Total Cover		of size, and woody plants less than 3.28 ft tall.
oody Vine Stratum (Plot size:15')			Woody vines – All woody vines greater than 3.28 ft
Vitis riparia	5	Yes	FAC	height.
				Hydrophytic
				Vegetation Present? Yes No X
	 5	=Total Cover		
	•			

SOIL Sampling Point: GR-YY-Up

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains, Loamy/Clayey	Depth	Matrix	o the de		x Featur		1101 01 01	onfirm the absence of indic	ators.,	
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Hydric Soil Indicators: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, Histosol (A2) Phydrogen Sulfide (A4) Phydrogen Sulfi		Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remar	ks
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Hydric Soil Indicators: Histosol (A1) Histic Epidedin (A2) Black Histic (A3) High Chroma Sands (S11) (LRR K, L) High Cyrogen Sulfide (A4) High Chroma Sands (S11) (LRR K, L) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Depleted Below Dark Surface (A11) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (F3) Sandy Gleyed Matrix (G4) Depleted Dark Surface (A12) Sandy Redox (S5) Redox Dark Surface (F7) Redox Dark Surface (F7) Redox Caperssions (F8) Stripped Matrix (S6) Dark Surface (S7) Marl (F10) (LRR K, L) Depleted Dark Surface (F2) Stripped Matrix (S6) Dark Surface (F7) Sandy Redox (S5) Redox Depressions (F8) Marl (F10) (LRR K, L) Depleted Dark Surface (F7) Stripped Matrix (S6) Dark Surface (F7) Proceeding Type: Depth (inches): Hydric Soil Present? Yes No X	0-4	7.5YR 3/4	100					Loamy/Clayey		
Hydric Soil Indicators: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, Histosol (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) Stratified Layers (A5) Loamy Mucky Mineral (F1) (LRR K, L) Thick Dark Surface (A11) Depleted Below Dark Surface (A12) Depleted Matrix (F3) Peleted Matrix (F3) Peleted Dark Surface (F6) Sandy Gleyed Matrix (S4) Depleted Dark Surface (F6) Sandy Redox (S5) Redox Depressions (F8) Stripped Matrix (S6) Marl (F10) (LRR K, L) Stripped Matrix (S6) Dark Surface (S7) Marl (F10) (LRR K, L) Hydric Soil Present? Wes_ No_ X Hydric Soil Present? Hydric Soil Present? Yes_ No_ X	4-12	7.5YR 5/2	100					Loamy/Clayey		
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Histosol (A1)	¹ Type: C=Co	oncentration, D=Depl	etion, RM	1=Reduced Matrix, N	/IS=Mas	ked Sand	d Grains.	² Location: PL=Por	e Lining, M=Ma	trix.
Histic Epipedon (A2) Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Hydrogen Sulfide (A4) High Chroma Sands (S11) (LRR K, L) Stratified Layers (A5) Loamy Mucky Mineral (F1) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Depleted Below Dark Surface (A11) Loamy Gleyed Matrix (F2) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Redox Dark Surface (F6) Sandy Gleyed Matrix (S4) Depleted Dark Surface (F7) Red Parent Material (F21) Sandy Redox (S5) Redox Depressions (F8) Very Shallow Dark Surface (F22) Stripped Matrix (S6) Dark Surface (S7) Pindicators 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	=					(00) (-	
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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) 3Indicators 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										44A, 145, 149B)
Stripped Matrix (S6)										
Dark Surface (S7) 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						8)				22)
³ 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				Mari (F10) (LR	K K, L)			Other (Explain	in Remarks)	
Restrictive Layer (if observed): Type:	Bark out	11400 (01)								
Type:	³ Indicators o	f hydrophytic vegetati	ion and w	etland hydrology mu	ust be pr	esent, ur	nless dist	urbed or problematic.		
Depth (inches): Hydric Soil Present? Yes No X		Layer (if observed):								
	Type:									
Remarks:	Depth (ir	nches):						Hydric Soil Present?	Yes	NoX
	Remarks:									



Upland G-R-YY- View facing North



Upland G-R-YY- View facing Northwest

SITE PHOTOGRAPHS

Project/Site: CHPE - CP Rail - Fort Edward to Milton Section	City/County: Saratoga Sampling Date: 11/23/21						
Applicant/Owner: CHPE	State: NY Sampling Point: GR-ZZ-Wet						
Investigator(s): KW, KS	Section, Township, Range: Moreau						
- ' '	relief (concave, convex, none): Concave Slope %: 0						
Subregion (LRR or MLRA): LRR R, MLRA 144A Lat: 43°,13',44.62"N	Long: 73°,36',36.29"W Datum:						
Soil Map Unit Name: Fluvaqvents	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 disturb							
Are Vegetation , Soil , or Hydrology naturally 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:						
Remarks: (Explain alternative procedures here or in a separate report.)	<u> </u>						
HYDROLOGY							
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)						
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)						
Surface Water (A1) X _ Water-Stained Leaves (E	B9) Drainage Patterns (B10)						
High Water Table (A2) Aquatic Fauna (B13) Moss Trim Lines (B16)							
X Saturation (A3) Marl Deposits (B15)	Dry-Season Water Table (C2)						
Water Marks (B1) Hydrogen Sulfide Odor ((C1) Crayfish Burrows (C8)						
Sediment Deposits (B2) Oxidized Rhizospheres of	on Living Roots (C3) Saturation Visible on Aerial Imagery (C9)						
Drift Deposits (B3) Presence of Reduced Iro	ron (C4) Stunted or Stressed Plants (D1)						
Algal Mat or Crust (B4)Recent Iron Reduction in	in Tilled Soils (C6) Geomorphic Position (D2)						
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 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:							

Absolute	Dominant	Indicator	
% Cover	Species?	Status	Dominance Test worksheet:
5	Yes	FAC	Number of Dominant Species
5	Yes	FACW	That Are OBL, FACW, or FAC:5 (A)
	. <u></u>		Total Number of Dominant
			Species Across All Strata: 6 (B)
			Percent of Dominant Species
			That Are OBL, FACW, or FAC: 83.3% (A/I
			Prevalence Index worksheet:
10	=Total Cover		Total % Cover of: Multiply by:
)			OBL species x 1 =
20	Yes	FAC	FACW species x 2 =
25	Yes	FACU	FAC species x 3 =
			FACU species x 4 =
			UPL species x 5 =
			Column Totals: (A)
			Prevalence Index = B/A =
			Hydrophytic Vegetation Indicators:
45	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
			X 2 - Dominance Test is >50%
20	Yes	FACW	3 - Prevalence Index is ≤3.0¹
10	Yes	FACW	4 - Morphological Adaptations ¹ (Provide support
5	No	FACU	data in Remarks or on a separate sheet)
			Problematic Hydrophytic Vegetation ¹ (Explain)
			¹ Indicators of hydric soil and wetland hydrology musi
			be present, unless disturbed or problematic.
			Definitions of Vegetation Strata:
			Tree – Woody plants 3 in. (7.6 cm) or more in
			diameter at breast height (DBH), regardless of heigh
			Sapling/shrub – Woody plants less than 3 in. DBH
			and greater than or equal to 3.28 ft (1 m) tall.
			Herb – All herbaceous (non-woody) plants, regardle
35	=Total Cover		of size, and woody plants less than 3.28 ft tall.
)			Woody vines – All woody vines greater than 3.28 ft
			height.
			Hydrophytic
			Vegetation
			Vegetation Present? Yes X No
	5 5 10 20 25 45 20 10 5	5 Yes 5 Yes 10 =Total Cover 20 Yes 25 Yes 45 =Total Cover 20 Yes 5 No 35 =Total Cover	5 Yes FACW 5 Yes FACW 10 =Total Cover 20 Yes FACU 25 Yes FACU 45 =Total Cover 20 Yes FACW 5 No FACU 35 =Total Cover

SOIL Sampling Point: GR-ZZ-Wet

	•	to the de	="			ator or co	onfirm the absence o	f indicators.)		
Depth	Matrix	0/		x Featur		12	T	Dawaada		
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type ¹	Loc ²	Texture	Remarks		
0-3	10YR 4/2	100					Loamy/Clayey			
3-14	2.5YR 6/2	97	10YR 5/6	3	С	M	Loamy/Clayey	Prominent redox concentrations		
1Type: C=C	oncentration, D=Depl	etion RN	M=Reduced Matrix N	 S=Mas	ked Sand	d Grains	² Location: P	L=Pore Lining, M=Matrix.		
Hydric Soil		euon, ra	i-Reduced Matrix, N	io-ivias	keu San	J Glailis.		or Problematic Hydric Soils ³ :		
Histosol			Polyvalue Belo	w Surfa	ce (S8) (LRR R.		ick (A10) (LRR K, L, MLRA 149B)		
	pipedon (A2)		MLRA 149B		() (,		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)			
Hydrogen Sulfide (A4) High Chroma S					511) (LRI	R K, L)	Polyvalu	e Below Surface (S8) (LRR K, L)		
Stratified	d Layers (A5)		Loamy Mucky	Mineral	(F1) (LR	R K, L)	Thin Da	rk Surface (S9) (LRR K, L)		
Depleted	d Below Dark Surface	(A11)	Loamy Gleyed	Matrix (F2)		Iron-Manganese Masses (F12) (LRR K, L, R)			
Thick Da	ark Surface (A12)		X Depleted Matri	x (F3)			Piedmont Floodplain Soils (F19) (MLRA 149)			
Sandy M	lucky Mineral (S1)		Redox Dark Su	ırface (F	- 6)		Mesic Spodic (TA6) (MLRA 144A, 145, 149B)			
	Gleyed Matrix (S4)		Depleted Dark	Surface	e (F7)			ent Material (F21)		
	ledox (S5)		Redox Depress	•	8)			allow Dark Surface (F22)		
	Matrix (S6)		Marl (F10) (LR	R K, L)			Other (E	xplain in Remarks)		
Dark Su	rface (S7)									
³ Indicators o	f hydrophytic vegetati	ion and v	etland hydrology mu	iet ha ni	rosont III	alose disti	irhad or problematic			
	Layer (if observed):		vetiand hydrology mic	ist be pi	esent, ui	iless disti	arbed or problematic.			
Type:	Layer (ii observea).									
Depth (ir	achoe):						Hydric Soil Prese	nt? Yes X No		
							Tryulic 3011 Flese	165 <u>/ 100</u>		
Remarks:	m is revised from No	rthcentra	Land Northeast Pegi	onal Su	nnlemen	t Version	2 0 to include the NP(CS Field Indicators of Hydric Soils,		
	2015 Errata. (http://w							53 Field Indicators of Frydric Solls,		
,			J	_			, _ ,			



Wetland G-R-ZZ- View facing East



Wetland G-R-ZZ- Soils

SITE PHOTOGRAPHS

Project/Site: CHPE - CP Rail - Fort Edward to Milton Section	City/County: Saratoga Sampling Date: 11/23/21
Applicant/Owner: CHPE	State: NY Sampling Point: GR-ZZ-Up
Investigator(s): KW, KS	Section, Township, Range: Moreau
- ' '	relief (concave, convex, none): Concave Slope %: 5
Subregion (LRR or MLRA): LRR R, MLRA 144A Lat: 43°,13',44.62"N	Long: 73°,36',36.29"W Datum:
Soil Map Unit Name: Fluvaqvents	NWI classification: None
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 No X	Is the Sampled Area
Hydric Soil Present? Yes No X	within a Wetland? Yes No X
Wetland Hydrology Present? Yes No X	If yes, optional Wetland Site ID:
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) Water-Stained Leaves (I High Water Table (A2) Aquatic Fauna (B13)	B9) Drainage Patterns (B10) Moss Trim Lines (B16)
High Water Table (A2) Saturation (A3) Aquatic Fauna (B13) Marl Deposits (B15)	Dry-Season Water Table (C2)
Water Marks (B1) Water Marks (B1) Hydrogen Sulfide Odor (
Sediment Deposits (B2) Oxidized Rhizospheres	
Drift Deposits (B3) Presence of Reduced Iron	<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 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):	
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	evious inspections), if available:
Remarks:	
1	

Absolute	Dominant	Indicator	
% Cover	Species?	Status	Dominance Test worksheet:
5	Yes	FACW	Number of Dominant Species
5	Yes	FAC	That Are OBL, FACW, or FAC: 2 (A)
			Total Number of Dominant
			Species Across All Strata: 5 (B)
			Percent of Dominant Species
			That Are OBL, FACW, or FAC: 40.0% (A/E
	· <u></u>		Prevalence Index worksheet:
10	=Total Cover		Total % Cover of: Multiply by:
)			OBL species x 1 =
45	Yes	FACU	FACW species x 2 =
			FAC species x 3 =
			FACU species x 4 =
_			UPL species x 5 =
			Column Totals: (A)
			Prevalence Index = B/A =
	·		
			Hydrophytic Vegetation Indicators:
45	= Fotal Cover		1 - Rapid Test for Hydrophytic Vegetation
			2 - Dominance Test is >50%
		FACU	3 - Prevalence Index is ≤3.0 ¹
_	Yes	FACU	4 - Morphological Adaptations ¹ (Provide support data in Remarks or on a separate sheet)
			Problematic Hydrophytic Vegetation ¹ (Explain)
			¹ Indicators of hydric soil and wetland hydrology must
			be present, unless disturbed or problematic.
_			Definitions of Vegetation Strata:
_			Tree – Woody plants 3 in. (7.6 cm) or more in
			diameter at breast height (DBH), regardless of heigh
_			Sapling/shrub – Woody plants less than 3 in. DBH
	·		and greater than or equal to 3.28 ft (1 m) tall.
			Herb – All herbaceous (non-woody) plants, regardle
45	=Total Cover		of size, and woody plants less than 3.28 ft tall.
1			Woody vines – All woody vines greater than 3.28 ft
,			
,			height.
, 			
			Hydrophytic
	10) 45 ————————————————————————————————————	5 Yes 5 Yes 10 =Total Cover 10 =Total Cover 20 Yes 25 Yes	5 Yes FACW 5 Yes FAC 10 =Total Cover 45 Yes FACU 20 Yes FACU 25 Yes FACU

SOIL Sampling Point: GR-ZZ-Up

Depth	cription: (Describe t Matrix		Redox	k Featur	es				
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remar	ks
0-3	7.5YR 5/4	100					Loamy/Clayey		
3-12	7.5YR 3/3	100					Loamy/Clayey		
	· <u></u>								
	·								
¹ Type: C=C	oncentration, D=Depl	etion, RM	=Reduced Matrix, N	IS=Mas	ked Sand	Grains.	² Location: PL=Pore	Lining, M=Ma	trix.
Hydric Soil		•					Indicators for Prob		•
Histosol		•	Polyvalue Belo		ce (S8) (I	_RR R,	2 cm Muck (A10) (LRR K, L, I	MLRA 149B)
	pipedon (A2)		MLRA 149B)				Coast Prairie R		
	istic (A3)		Thin Dark Surfa						
	en Sulfide (A4)		High Chroma S				Polyvalue Below Surface (S8) (LRR K, L) Thin Dark Surface (S9) (LRR K, L)		
Stratified Layers (A5) Depleted Below Dark Surface (A11)		(Δ11)	Loamy Mucky N Loamy Gleyed			K K, L)	Iron-Manganese Masses (F12) (LRR K, L, R)		
	ark Surface (A12)	(A11)	Depleted Matrix		1 2)				9) (MLRA 149B)
	/lucky Mineral (S1)	•	Redox Dark Su		6)				44A, 145, 149B)
	Gleyed Matrix (S4)	•	Depleted Dark				Red Parent Mat		, , ,
	Redox (S5)	•	Redox Depress				Very Shallow D		22)
Stripped	l Matrix (S6)	•	Marl (F10) (LR l	R K, L)			Other (Explain i	n Remarks)	
Dark Su	rface (S7)								
31	f buduanbutia va satati					مادات ماداد	unha dan muah lamatia		
	f hydrophytic vegetati Layer (if observed):	on and we	aliana nyarology mu	ist be pr	esent, ur	ness also	urbed or problematic.		
Type:	, (
• • • • •	nches):						Hydric Soil Present?	Yes	No_X
Depth (ii									
Depth (in	· 								
Depth (ii	,								
	, <u> </u>								



Upland G-R-ZZ- View facing West



Upland G-R-ZZ- View facing East

SITE PHOTOGRAPHS

Project/Site: CHPE	City/County: Moreau / Saratoga Sampling Date: 11/24/21
Applicant/Owner: TDI	State: NY Sampling Point: WET C-R-AZ-6
Investigator(s): J. Greaves, C. Scrivner	Section, Township, Range:
Landform (hillside, terrace, etc.): Linear depression Local	relief (concave, convex, none): Concave Slope %: 10
Subregion (LRR or MLRA): LRR R Lat: 43-13-26.16N	Long: 73-36-59.45W Datum: WGS 84
Soil Map Unit Name: EIB - Elmridge very fine sandy 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	
	
SUMMARY OF FINDINGS – Attach site map showing sam	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 No
Wetland Hydrology Present? Yes X No	If yes, optional Wetland Site ID: Near Flag C-R-AZ-6
Palustrine Emergent Marsh. Linear roadside 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)
Surface Water (A1) Water-Stained Leaves (E	
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) X Oxidized Rhizospheres of	
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 Remarl	rks)Microtopographic Relief (D4)
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):	
(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.		<u> </u>		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 species60 x 1 =60
1				FACW species 40 x 2 = 80
2.				FAC species 0 x 3 = 0
3				FACU species0 x 4 =0
4.				UPL species 0 x 5 = 0
5.				Column Totals: 100 (A) 140 (B)
6.		· ·		Prevalence Index = B/A = 1.40
7.				Hydrophytic Vegetation Indicators:
		=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5')		•		X 2 - Dominance Test is >50%
1. Juncus effusus	30	Yes	OBL	X 3 - Prevalence Index is ≤3.0 ¹
Carex lurida	30	Yes	OBL	4 - Morphological Adaptations ¹ (Provide supporting
3. Thelypteris palustris	30	Yes	FACW	data in Remarks or on a separate sheet)
Solidago gigantea	10	No	FACW	Problematic Hydrophytic Vegetation ¹ (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
11.				and greater than or equal to 3.28 ft (1 m) tall.
12.				Harb All borboscous (non woods) plants recording
	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')				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.)	<u>-</u>		1
` '	,			

Sampling Point: WET C-R-AZ-6

SOIL Sampling Point: WET C-R-AZ-6

		o the de				or or co	nfirm the absence of	indicators.)	
Depth	Matrix	0/		x Feature		1 2	Taratras	Develop	
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type ¹	Loc ²	Texture	Remarks	
0-2	10YR 2/1	100					Loamy/Clayey		
2-16	10YR 2/2	60	10YR 4/1	20	<u> </u>	<u>M</u>	Loamy/Clayey	Faint redox concentrations	
			10YR 3/4	10	<u> </u>	PL		Distinct redox concentrations	
			7.5YR 5/8	10	<u>C</u>	<u>M</u>		Prominent redox concentrations	
1			De la collection M				21	L Door Lister M. Mark	
Hydric Soil	oncentration, D=Depl	etion, RM	=Reduced Matrix, M		L=Pore Lining, M=Matrix. or Problematic Hydric Soils ³ :				
-			Polyvalue Belov	w Surfac	e (S8) (I	RRR		ck (A10) (LRR K, L, MLRA 149B)	
Histosol (A1) — Polyvalue Below Surface (S8) (LRR MLRA 149B)						,	? Coast Prairie Redox (A16) (LRR K, L, R)		
Black Hi			Thin Dark Surface (S9) (LRR R, MLRA 14					cky Peat or Peat (S3) (LRR K, L, R)	
	n Sulfide (A4)		High Chroma S					e Below Surface (S8) (LRR K, L)	
Stratified	Layers (A5)		Loamy Mucky N	Mineral (F1) (LRF	R K, L)	Thin Dar	k Surface (S9) (LRR K, L)	
Depleted	d Below Dark Surface	(A11)	Loamy Gleyed	Matrix (F	=2)		Iron-Man	iganese Masses (F12) (LRR K, L, R)	
Thick Da	ark Surface (A12)		Depleted Matrix	(F3)			Piedmon	t Floodplain Soils (F19) (MLRA 149B)	
Sandy Mucky Mineral (S1)			X Redox Dark Su	rface (F	6)		Mesic Sp	oodic (TA6) (MLRA 144A, 145, 149B)	
Sandy Gleyed Matrix (S4)			Depleted Dark	Surface	(F7)		Red Pare	ent Material (F21)	
Sandy Redox (S5)			? Redox Depress		3)		Very Sha	allow Dark Surface (F22)	
Stripped Matrix (S6)			Marl (F10) (LR l	R K, L)			Other (E	xplain in Remarks)	
Dark Surface (S7)									
³ Indicators of	f hydrophytic vegetati	on and w	etland hydrology mus	st be pre	sent, unl	ess distu	rbed or problematic.		
	_ayer (if observed):		, C,						
Type:									
Depth (inches):							Hydric Soil Presen	t? Yes <u>X</u> No	
Remarks:									



Wetland C-R-AZ-6 View facing west



Wetland C-R-AZ-6 Soils

SITE PHOTOGRAPHS

Project/Site: CHPE	City/County: Moreau / Saratoga Sampling Date: 11/24/21				
Applicant/Owner: TDI	State: NY Sampling Point: WET C-R-AZ-8				
Investigator(s): J. Greaves, C. Scrivner	Section, Township, Range:				
	relief (concave, convex, none): Convex Slope %: 5				
Subregion (LRR or MLRA): LRR R Lat: 43-13-25.59N	Long: 73-36-59.87W Datum: WGS 84				
Soil Map Unit Name: EIB - Elmridge very fine sandy loam	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					
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 C-R-AZ-8				
Remarks: (Explain alternative procedures here or in a separate report.) Palustrine Scrubshrub Wetland.					
HYDROLOGY					
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)				
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)				
X Surface Water (A1) X Water-Stained Leaves (E	B9) Drainage Patterns (B10)				
X High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)				
X Saturation (A3) — Marl Deposits (B15)	Dry-Season Water Table (C2)				
Water Marks (B1) Hydrogen Sulfide Odor (
Sediment Deposits (B2) X Oxidized Rhizospheres of					
Drift Deposits (B3) Presence of Reduced Iro					
Algal Mat or Crust (B4) Recent Iron Reduction in	· · · · · · · · · · · · · · · · · · ·				
Iron Deposits (B5) — Thin Muck Surface (C7)	Shallow Aquitard (D3)				
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remark	<u> </u>				
Sparsely Vegetated Concave Surface (B8)	X FAC-Neutral Test (D5)				
Field Observations:					
Surface Water Present? Yes X No Depth (inches):	0.5				
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:					
 Acer rubrum 	5	Yes	FAC	Number of Dominant Species That Are OBL, FACW, or FAC:4(A)					
3				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:					
	5	=Total Cover		Total % Cover of: Multiply by:					
Sapling/Shrub Stratum (Plot size:)				OBL species 25 x 1 = 25					
1. Cornus sericea	70	Yes	FACW	FACW species 115 x 2 = 230					
2. Lonicera morrowii	5	No	FACU	FAC species12 x 3 =36					
3. Populus deltoides	2	No	FAC	FACU species 5 x 4 = 20					
4.				UPL species 0 x 5 = 0					
5.				Column Totals: 157 (A) 311 (B)					
6.				Prevalence Index = B/A = 1.98					
7.				Hydrophytic Vegetation Indicators:					
	77	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation					
Herb Stratum (Plot size: 5')		•		X 2 - Dominance Test is >50%					
1. Onoclea sensibilis	35	Yes	FACW	X 3 - Prevalence Index is ≤3.0 ¹					
Typha latifolia	25	Yes	OBL	4 - Morphological Adaptations ¹ (Provide supporting					
0.111		No	FACW	data in Remarks or on a separate sheet)					
Solidago gigantea Euthamia graminifolia	5	No No	FAC	Problematic Hydrophytic Vegetation ¹ (Explain)					
5. Cornus sericea	5	No No	FACW	1 Tobiematic Hydrophytic Vegetation (Explain)					
6.		NO	PACW	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.					
7				Definitions of Vegetation Strata:					
8. 9.				Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.					
10.				Sapling/shrub – Woody plants less than 3 in. DBH					
11.				and greater than or equal to 3.28 ft (1 m) tall.					
12	75	=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?					
		=Total Cover							
Remarks: (Include photo numbers here or on a separate sheet.)									

Sampling Point: WET C-R-AZ-8

SOIL Sampling Point: WET C-R-AZ-8

Profile Desc Depth	ription: (Describe t Matrix	o the de		ment the x Feature		tor or co	nfirm the absence of i	indicators.)	
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks	
0-7	10YR 2/1	95	10YR 4/3	5	С	PL	Loamy/Clayey	Distinct redox concentrations	
7-17	2.5Y 4/1	70	10YR 2/1	5	С	М	Loamy/Clayey	Distinct redox concentrations	
			10YR 5/4	5	С	M		Prominent redox concentrations	
			2.5YR 3/4	20	С	М		Prominent redox concentrations	
									
	oncentration, D=Deple	etion, RM	=Reduced Matrix, M	S=Mask	ed Sand	Grains.		L=Pore Lining, M=Matrix.	
Hydric Soil I			Dobaratus Balas	Curtos	. (CO) (I	DD D		or Problematic Hydric Soils ³ :	
Histosol	(A1) pipedon (A2)		Polyvalue Below		e (58) (I	_KK K,		ck (A10) (LRR K, L, MLRA 149B) airie Redox (A16) (LRR K, L, R)	
Black Hi			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) (LRR K, L)	
	Layers (A5)		Loamy Mucky N					k Surface (S9) (LRR K, L)	
	Below Dark Surface	(A11)	Loamy Gleyed				? Iron-Manganese Masses (F12) (LRR K, L, R)		
Thick Da	ark Surface (A12)		X Depleted Matrix	(F3)			Piedmont Floodplain Soils (F19) (MLRA 149B)		
Sandy M	lucky Mineral (S1)		X Redox Dark Su	urface (F6)			Mesic Sp	podic (TA6) (MLRA 144A, 145, 149B)	
Sandy G	leyed Matrix (S4)		Depleted Dark	Surface	(F7)		Red Pare	ent Material (F21)	
	edox (S5)		? Redox Depress	,	3)			allow Dark Surface (F22)	
	Matrix (S6)		Marl (F10) (LR l	R K, L)			Other (Ex	xplain in Remarks)	
Dark Sui	rface (S7)								
³ Indicators of	hydrophytic vegetati	on and w	etland hydrology mus	st be pre	sent unl	ess distu	rbed or problematic.		
	_ayer (if observed):	on and w	ottaria riyarology mac	or bo pro	oone, am	ooo alota	problematic.		
Type:	,								
Depth (ir	nches):						Hydric Soil Presen	t? Yes X No	
Remarks:	<u> </u>		<u> </u>						



Wetland C-R-AZ-8 View facing southwest



Wetland C-R-AZ-8 Soils

SITE PHOTOGRAPHS

Project/Site: CHPE	City/County: Moreau / Saratoga Sampling Date: 11/24/21					
Applicant/Owner: TDI	State: NY Sampling Point: UPL					
Investigator(s): J. Greaves, C. Scrivner	Section, Township, Range:					
Landform (hillside, terrace, etc.): Berm Local	relief (concave, convex, none): Convex Slope %: 25					
Subregion (LRR or MLRA): LRR R Lat: 43-13-26.21N	Long: 73-36-59.06W Datum: WGS 84					
Soil Map Unit Name: EIB - Elmridge very fine sandy 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 disturb						
Are Vegetation, Soil, or Hydrology naturally 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 roadside. Upland data point for C-R-AZ-6 and C-R-AZ-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 (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	s 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) Geomorphic Position (D2)					
Iron Deposits (B5) — Thin Muck Surface (C7)	· · · · · ·					
Inundation Visible on Aerial Imagery (B7)Other (Explain in Remarl	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:						

	Absolute	Dominant	Indicator			
Tree 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:	3	_ (B)
·				Percent of Dominant Species That Are OBL, FACW, or FAC:	33.3%	(A/E
				Prevalence Index worksheet:		
		=Total Cover		Total % Cover of:	Multiply by:	
apling/Shrub Stratum (Plot size:15')			OBL species 0 x 1	= 0	
Lonicera morrowii	5	Yes	FACU	FACW species 0 x 2	= 0	
Cornus racemosa	2	Yes	FAC	FAC species 2 x 3	= 6	
				FACU species 85 x 4	= 340	
				UPL species 0 x 5	= 0	
				Column Totals: 87 (A)	346	(E
				Prevalence Index = B/A =	3.98	
				Hydrophytic Vegetation Indicator	rs:	
	7	=Total Cover		1 - Rapid Test for Hydrophytic	Vegetation	
erb Stratum (Plot size:5')				2 - Dominance Test is >50%		
Poa pratensis	70	Yes	FACU	3 - Prevalence Index is ≤3.0 ¹		
Solidago canadensis	10	<u>No</u>	FACU	4 - Morphological Adaptations data in Remarks or on a sep		
				Problematic Hydrophytic Veget	tation ¹ (Expla	ain)
	· ·			¹ Indicators of hydric soil and wetlan present, unless disturbed or proble		must
				Definitions of Vegetation Strata:		
				Tree – Woody plants 3 in. (7.6 cm) at breast height (DBH), regardless		liame
).				Sapling/shrub – Woody plants less and greater than or equal to 3.28 ft	s than 3 in. D	ЭВН
 2.					, ,	
	80	=Total Cover		Herb – All herbaceous (non-woody of size, and woody plants less than		ardles
oody Vine Stratum (Plot size: 30') 			Woody vines – All woody vines green height.	eater than 3.2	28 ft i
·	·			Hydrophytic Vegetation		
				_	No X	
		=Total Cover				

SOIL Sampling Point: UPL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth	Matrix	o the depth he		x Featur			minimule absence of	maioatoro,
(inches)	Color (moist)	% C	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-13	10YR 2/1	100					Sandy	with gravel
1 _{Tumps} , C. Co	neestration D Donlo	tion DM Dod	Lucad Matrix M		d	Craina	2l continu	N. Dara Lining M. Matrix
Hydric Soil I	ncentration, D=Deple	tion, RIVI=Red	uced Matrix, M	5=IVIask	ed Sand	Grains.		PL=Pore Lining, M=Matrix. or Problematic Hydric Soils ³ :
Histosol (1	Polyvalue Belov	w Surfac	ce (S8) (I	LRR R,		uck (A10) (LRR K, L, MLRA 149B)
	ipedon (A2)		MLRA 149B)		- ()(,		rairie Redox (A16) (LRR K, L, R)
Black His	stic (A3)		Thin Dark Surfa	ace (S9)	(LRR R	, MLRA 1	49B) 5 cm Mu	ucky Peat or Peat (S3) (LRR K, L, R)
Hydroger	n Sulfide (A4)		High Chroma S	3ands (S	11) (LRF	₹ K, L)	Polyvalu	ue Below Surface (S8) (LRR K, L)
Stratified	Layers (A5)		Loamy Mucky M	Mineral (F1) (LRF	₹ K, L)	Thin Da	rk Surface (S9) (LRR K, L)
Depleted	Below Dark Surface	(A11)	Loamy Gleyed	Matrix (F	- 2)		Iron-Mai	nganese Masses (F12) (LRR K, L, R)
	rk Surface (A12)		Depleted Matrix					nt Floodplain Soils (F19) (MLRA 149B)
	ucky Mineral (S1)		Redox Dark Su					podic (TA6) (MLRA 144A, 145, 149B)
	eyed Matrix (S4)		Depleted Dark		. ,			rent Material (F21)
	edox (S5) Matrix (S6)		Redox Depress Marl (F10) (LRI		3)			allow Dark Surface (F22) Explain in Remarks)
? Dark Sur		 '	Mair (1 10) (LIC	iv iv, ∟)				Explain in Remarks)
Bank Gan	1400 (01)							
³ Indicators of	hydrophytic vegetatic	on and wetland	d hydrology mus	st be pre	sent, un	less distu	rbed or problematic.	
Restrictive L	ayer (if observed):							
Type:	Rock	k						
Depth (in	ches):	13					Hydric Soil Presei	nt? Yes No X
Remarks:							•	



Upland C-R-AZ-6 and C-R-AZ-8 View facing east/northeast



Upland C-R-AZ-6 and C-R-AZ-8 Soils

SITE PHOTOGRAPHS

Project/Site: CHPE	City/County: Moreau / Saratoga Sampling Date: 11/24/21						
Applicant/Owner: TDI	State: NY Sampling Point: WET C-R-AZ-20						
Investigator(s): J. Greaves, C. Scrivner	Section, Township, Range:						
Landform (hillside, terrace, etc.): Depression Lo	ocal relief (concave, convex, none): Concave Slope %: 5						
Subregion (LRR or MLRA): LRR R Lat: 43-13-23.09N	Long: 73-37-3.40W Datum: WGS 84						
Soil Map Unit Name: EIB - Elmridge very fine sandy loam	NWI classification: PFO1						
Are climatic / hydrologic conditions on the site typical for this time of year							
Are Vegetation, Soil, or Hydrologysignificantly di							
Are Vegetation, Soil, or Hydrologynaturally problem.	lematic? (If needed, explain any answers in Remarks.)						
SUMMARY OF FINDINGS – Attach site map showing s	ampling 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	· · · · · · · · · · · · · · · · · ·						
HYDROLOGY							
	Secondary Indicators (minimum of two required)						
Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (R6)						
Primary Indicators (minimum of one is required; check all that apply) X Surface Water (A1) X Water-Stained Leav	Surface Soil Cracks (B6) res (B9) Drainage Patterns (B10)						
X High Water Table (A2) Aquatic Fauna (B13)							
X Saturation (A3) Marl Deposits (B15)	· · · · · · · · · · · · · · · · · · ·						
Water Marks (B1) Hydrogen Sulfide Od							
Sediment Deposits (B2) X Oxidized Rhizosphe							
Drift Deposits (B3) Presence of Reduce							
Algal Mat or Crust (B4) Recent Iron Reduction	on in Tilled Soils (C6) X Geomorphic Position (D2)						
Iron Deposits (B5) Thin Muck Surface (
Inundation Visible on Aerial Imagery (B7) Other (Explain in Re							
Sparsely Vegetated Concave Surface (B8)	X FAC-Neutral Test (D5)						
Field Observations:							
Surface Water Present? Yes X No Depth (incl							
Water Table Present? Yes X No Depth (incl							
Saturation Present? Yes X No Depth (incl	hes): 0 Wetland Hydrology Present? Yes X No						
(includes capillary fringe)							
Describe Recorded Data (stream gauge, monitoring well, aerial photos,	previous inspections), if available.						
Remarks:							

0 5	Yes Yes No No	FAC FACW FACW	Number of Dominant Species That Are OBL, FACW, or FAC: Total Number of Dominant Species Across All Strata: 7 (B) Percent of Dominant Species
5	Yes No	FAC FACW	That Are OBL, FACW, or FAC: Compared to the comparison of the com
0	No	FACW	Total Number of Dominant Species Across All Strata: 7 (B)
			Species Across All Strata: 7 (B)
0 :			Percent of Dominant Species
0 :			T Percent of Dominant Species
0 :			That Are OBL, FACW, or FAC: 85.7% (A/B)
0 :			Prevalence Index worksheet:
	=Total Cover		Total % Cover of: Multiply by:
			OBL species0 x 1 =0
00	Yes	FACW	FACW species 105 x 2 = 210
0	Yes	FACU	FAC species 70 x 3 = 210
0	Yes	FACW	FACU species 15 x 4 = 60
0	Yes	FAC	UPL species 5 x 5 = 25
			Column Totals: 195 (A) 505 (B)
			Prevalence Index = B/A = 2.59
			Hydrophytic Vegetation Indicators:
	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
			X 2 - Dominance Test is >50%
n	Yes	FACW	X 3 - Prevalence Index is ≤3.0 ¹
<u> </u>			4 - Morphological Adaptations ¹ (Provide supporting
			data in Remarks or on a separate sheet)
<u></u>			Problematic Hydrophytic Vegetation ¹ (Explain)
<u> </u>			
<u>-</u>			¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
			Definitions of Vegetation Strata:
			Tree – Woody plants 3 in. (7.6 cm) or more in diameter
			at breast height (DBH), regardless of height.
			Sapling/shrub – Woody plants less than 3 in. DBH
			and greater than or equal to 3.28 ft (1 m) tall.
			Herb – All herbaceous (non-woody) plants, regardless
5:	=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 Vegetation
			Present? Yes X No
:	=Total Cover		
		Yes Yes Yes Yes Yes No No No No No Total Cover Total Cover Total Cover	Yes

Sampling Point: NET C-R-AZ-20

Profile Desc	ription: (Describe t	o the de	pth needed to docur	ment th	e indicat	or or co	nfirm the absence of i	ndicators.)		
Depth	Matrix			x Featur						
(inches)	Color (moist)	<u>%</u>	Color (moist)		Type ¹	Loc ²	Texture	Remarks		
0-11	10YR 3/1	85	10YR 4/4	10	<u>C</u>	PL	Loamy/Clayey	Distinct redox concentrations		
			10YR 5/3	5	С	M		Distinct redox concentrations		
11-16	2.5Y 4/2	60	10YR 2/1	20	С	M	Sandy	Distinct redox concentrations		
			10YR 5/6	10	С	M		Prominent redox concentrations		
ļ			10YR 4/1	10	D	M				
								_		
¹ Type: C=Co	oncentration. D=Deple	etion. RM	——————————————————————————————————————	S=Mask	ed Sand	Grains.	² Location: PL	=Pore Lining, M=Matrix.		
Hydric Soil I		, , , , , , , , , , , , , , , , , , ,				0.4		r Problematic Hydric Soils ³ :		
Histosol			Polyvalue Belov	w Surfac	ce (S8) (I	LRR R,		ck (A10) (LRR K, L, MLRA 149B)		
Histic Ep	pipedon (A2)		MLRA 149B))			? Coast Pra	airie Redox (A16) (LRR K, L, R)		
Black His	stic (A3)		Thin Dark Surfa	ace (S9)	(LRR R	MLRA 1	1 49B)5 cm Muc	cky Peat or Peat (S3) (LRR K, L, R)		
Hydroge	n Sulfide (A4)		High Chroma S	Sands (S	11) (LRF	R K, L)	Polyvalue	e Below Surface (S8) (LRR K, L)		
	I Layers (A5)		Loamy Mucky N	Mineral ((F1) (LRF	R K, L)	Thin Dark	Surface (S9) (LRR K, L)		
X Depleted	Below Dark Surface	(A11)	Loamy Gleyed	Matrix (I	F2)		Iron-Manganese Masses (F12) (LRR K, L, R)			
	rk Surface (A12)		Depleted Matrix	` '			Piedmont Floodplain Soils (F19) (MLRA 149B)			
	lucky Mineral (S1)		X Redox Dark Su				Mesic Spodic (TA6) (MLRA 144A, 145, 149B)			
	leyed Matrix (S4) edox (S5)		Pepleted Dark Redox Depress		` '		Red Parent Material (F21) Very Shallow Dark Surface (F22)			
	Matrix (S6)		Marl (F10) (LRI		<i>5)</i>		Other (Explain in Remarks)			
	face (S7)			, -,				,		
	()									
	hydrophytic vegetatic	on and w	etland hydrology mus	st be pre	esent, un	less distu	urbed or problematic.			
Type:	Layer (ii observed).									
Depth (ir	nches):						Hydric Soil Present	t? Yes X No		
Remarks:							•			



Wetland C-R-AZ-20 View facing northwest



Wetland C-R-AZ-20 Soils

SITE PHOTOGRAPHS

Project/Site: CHPE	City/County: Moreau / Saratoga Sampling Date: 11/24/21					
Applicant/Owner: TDI	State: NY Sampling Point: UPLC-R-AZ-20					
Investigator(s): J. Greaves, C. Scrivner	Section, Township, Range:					
	relief (concave, convex, none): Convex Slope %: 25					
Subregion (LRR or MLRA): LRR R Lat: 43-13-22.77N	Long: 73-37-3.13W Datum: WGS 84					
Soil Map Unit Name: EIB - Elmridge very fine sandy 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	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.) Successional Northern Hardwood 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 (I	<u> </u>					
High Water Table (A2) Aquatic Fauna (B13) And Deposits (B45)	Moss Trim Lines (B16)					
Saturation (A3) Marl Deposits (B15) Hydrogen Sulfide Oder (Dry-Season Water Table (C2)					
Water Marks (B1) — Hydrogen Sulfide Odor (— Ovidized Phizospheres						
	s on Living Roots (C3) Saturation Visible on Aerial Imagery (C9)					
Drift Deposits (B3) Presence of Reduced Iro Algal Mat or Crust (B4) Recent Iron Reduction ir						
Iron Deposits (B5) Recent from Reduction in	· · · · · · · · · · · · · · · · · · ·					
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remark	Shallow Aquitard (D3) 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):						
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	I 					
20001150 Notociaca Zaia (elibani gaage, monteinig neli, acitai protee, pro	The de mope enterior, in available.					
Remarks:						
Tonano.						

<u>Tree Stratum</u> (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
Populus tremuloides	40	Yes	FACU	
Pinus strobus	25	Yes	FACU	Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)
Fraxinus pennsylvanica	10	No	FACW	
Quercus rubra	10	No	FACU	Total Number of Dominant Species Across All Strata: 4 (B)
5. Prunus serotina	5	No	FACU	
6.				Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)
7.				Prevalence Index worksheet:
	90	=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size:)				OBL species 0 x 1 = 0
1. Lonicera morrowii	55	Yes	FACU	FACW species15 x 2 =30
2. Fraxinus pennsylvanica	5	No	FACW	FAC species 0 x 3 = 0
3. Fagus grandifolia	5	No	FACU	FACU species155 x 4 =620
4		<u> </u>		UPL species 0 x 5 = 0
5				Column Totals: 170 (A)(B)
6.				Prevalence Index = B/A = 3.82
7.				Hydrophytic Vegetation Indicators:
	65	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5')				2 - Dominance Test is >50%
1. Lonicera morrowii	15	Yes	FACU	3 - Prevalence Index is ≤3.0 ¹
2.				4 - Morphological Adaptations ¹ (Provide supporting
3.				data in Remarks or on a separate sheet)
4.				Problematic Hydrophytic Vegetation ¹ (Explain)
5.				¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
6. 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
	15	=Total Cover		of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size: 30')				Woody vines – All woody vines greater than 3.28 ft in
1				height.
2				Hydrophytic
3				Vegetation
4				Present?
		=Total Cover		
Remarks: (Include photo numbers here or on a separa	ate sheet.)			

Sampling Point: UPL C-R-AZ-20

SOIL Sampling Point: UPL C-R-AZ-20

Depth	cription: (Describe to Matrix			x Feature	25		also absolves of maisaters,	
(inches)	Color (moist)	%	Color (moist)	%		_oc²	Texture Remarks	
0-8	10YR 3/3	100					Sandy	
8-13	10YR 3/6	100					Sandy	
-								
13-16	7.5YR 5/8	100			— -		Sandy	
1								
							· ·	
	· 							
	-							
1- 0.0							21	
Hydric Soil	oncentration, D=Deple Indicators:	etion, RM=	=Reduced Matrix, Mi	S=Maske	ed Sand Gr	ains.	² Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils	3.
Histosol			Polyvalue Belo	w Surfac	e (S8) (LR	R R,	2 cm Muck (A10) (LRR K, L, MLRA 1	
	oipedon (A2)		MLRA 149B)		, , ,	,	Coast Prairie Redox (A16) (LRR K, L	
Black Hi	istic (A3)		Thin Dark Surfa	ace (S9)	(LRR R, M	LRA 14	9B) 5 cm Mucky Peat or Peat (S3) (LRR I	(, L, R)
Hydroge	en Sulfide (A4)		High Chroma S	ands (S	11) (LRR K	(, L)	Polyvalue Below Surface (S8) (LRR K	(, L)
	d Layers (A5)		Loamy Mucky I			(, L)	Thin Dark Surface (S9) (LRR K, L)	
	d Below Dark Surface	(A11)	Loamy Gleyed		-2)		Iron-Manganese Masses (F12) (LRR	
	ark Surface (A12)		Depleted Matrix		0)		Piedmont Floodplain Soils (F19) (MLF	
	Mucky Mineral (S1)		Redox Dark Su				Mesic Spodic (TA6) (MLRA 144A, 149	o, 149B)
	Gleyed Matrix (S4) Redox (S5)		Depleted Dark Redox Depress				Red Parent Material (F21) Very Shallow Dark Surface (F22)	
	Matrix (S6)		Marl (F10) (LR		')		Other (Explain in Remarks)	
	rface (S7)			, ,				
	f hydrophytic vegetation	on and we	etland hydrology mus	st be pre	sent, unles	s disturb	ped or problematic.	
	Layer (if observed):							
Type:								
• • • • • • • • • • • • • • • • • • • •							Ukudala Call Dasasasto Vaa Na	Y
• • • • • • • • • • • • • • • • • • • •	nches):						Hydric Soil Present? Yes No	<u>X</u>
• • • • • • • • • • • • • • • • • • • •							nyaric Soil Present? 1 es No	
Depth (i							nydric Soil Present? Yes No	
Depth (i							nyaric Soil Present? 1 es No	
Depth (i							nydric Soil Present? Yes No	
Depth (i							nydric Soil Present? Yes No	
Depth (i							nydric Soil Present? Yes No	
Depth (i							nydric Soil Present? Yes No	
Depth (i							nydric Soil Present? Yes No	
Depth (i							nydric Soil Present? Yes No	
Depth (i							nydric Soil Present? Yes No	
Depth (i							nydric Soil Present? TesNo	
Depth (i							nydric Soil Present? Yes No	



Upland C-R-AZ-20 View facing south



Upland C-R-AZ-20 Soils

SITE PHOTOGRAPHS

Project/Site: CHPE	City/County: Moreau / Saratoga Sampling Date: 11/24/21				
Applicant/Owner: TDI	State: NY Sampling Point: WET C-R-AY-3				
Investigator(s): J. Greaves, C. Scrivner	Section, Township, Range:				
Landform (hillside, terrace, etc.): Hillslope Local r	relief (concave, convex, none): Concave Slope %: 30				
Subregion (LRR or MLRA): LRR R Lat: 43-13-20.94N	Long: 73-37-6.23W Datum: WGS 84				
Soil Map Unit Name: FI - Fluvaquents frequently flooded	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					
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 C-R-AY-3				
Remarks: (Explain alternative procedures here or in a separate report.) Palustrine Scrubshrub Wetland.					
HYDROLOGY					
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)				
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)				
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) 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):					
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:					
ronano.					

Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
 Populus deltoides Populus deltoides 	5	Yes	FAC	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				Percent of Dominant Species That Are OBL, FACW, or FAC: 75.0% (A/B)
7.				Prevalence Index worksheet:
	5	=Total Cover	'	Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size:15')				OBL species 5 x 1 = 5
1. Alnus incana	60	Yes	FACW	FACW species 68 x 2 = 136
2. Lonicera morrowii	10	No	FACU	FAC species 5 x 3 = 15
3.			'	FACU species 15 x 4 = 60
4.				UPL species 8 x 5 = 40
5.				Column Totals: 101 (A) 256 (B)
6.				Prevalence Index = B/A = 2.53
7.				Hydrophytic Vegetation Indicators:
	70	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5')		•		X 2 - Dominance Test is >50%
1. Athyrium filix-femina	8	Yes	UPL	X 3 - Prevalence Index is ≤3.0 ¹
Solidago gigantea	8	Yes	FACW	4 - Morphological Adaptations ¹ (Provide supporting
3. Lonicera morrowii			FACU	data in Remarks or on a separate sheet)
4. Juncus effusus	5	No	OBL	Problematic Hydrophytic Vegetation ¹ (Explain)
5. 6.				¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
7.				Definitions of Vegetation Strata:
8. 9.		·		Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
10.		· ·		Sapling/shrub – Woody plants less than 3 in. DBH
11.				and greater than or equal to 3.28 ft (1 m) tall.
12	26	=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?
		=Total Cover		
Remarks: (Include photo numbers here or on a separa	ate sheet.)			

Sampling Point: WET C-R-AY-3

SOIL Sampling Point: WET C-R-AY-3

Depth	ription: (Describe to Matrix	o the dep		ment tn x Featur		tor or co	nfirm the absence of	indicators.)	
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks	
0-12	10YR 3/1	68	10YR 5/4	10	С	М	Loamy/Clayey	Distinct redox concentrations	
			7.5YR 5/8	20	С	М		Prominent redox concentrations	
			7.5YR 5/8	2	С	PL		Prominent redox concentrations	
12-18	2.5Y 4/1	85	10YR 2/1	5	С	М	Loamy/Clayey	Distinct redox concentrations	
			10YR 5/6	10	<u>C</u>	M		Prominent redox concentrations	
<u></u>									
¹ Type: C=Co	oncentration, D=Deple	etion RM:	=Reduced Matrix M	S=Mask	ed Sand	Grains	2l ocation: P	 L=Pore Lining, M=Matrix.	
Hydric Soil I		20011, 12101-	-reduced Matrix, IVI	0-Mask	ca Garia	Oranis.		or Problematic Hydric Soils ³ :	
Histosol			Polyvalue Belo	w Surfac	e (S8) (L	RR R.		ick (A10) (LRR K, L, MLRA 149B)	
	ipedon (A2)		MLRA 149B		,	,	? Coast Prairie Redox (A16) (LRR K, L, R)		
Black His			Thin Dark Surfa	'	(LRR R.	MLRA 1		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						
		(//11)				Λ Λ , L)	Thin Dark Surface (S9) (LRR K, L)		
	Below Dark Surface	(A11)	Loamy Gleyed		-2)		Iron-Manganese Masses (F12) (LRR K, L, R)		
	rk Surface (A12)		Depleted Matrix	, ,	_\			nt Floodplain Soils (F19) (MLRA 149B)	
	ucky Mineral (S1)		X Redox Dark Su	•	,			podic (TA6) (MLRA 144A, 145, 149B)	
	leyed Matrix (S4)		Depleted Dark		, ,			ent Material (F21)	
	edox (S5)		? Redox Depress	,	3)			allow Dark Surface (F22)	
Stripped	Matrix (S6)		Marl (F10) (LR	R K, L)			Other (E	xplain in Remarks)	
Dark Sur	face (S7)								
³ Indicators of	hydrophytic vegetation	on and we	tland hydrology mus	st be pre	sent, unl	ess distu	rbed or problematic.		
	.ayer (if observed):								
Type: _ Depth (in	nches):						Hydric Soil Preser	nt? Yes X No	
Remarks:							.,	<u> </u>	



Wetland C-R-AY-3 View facing north



Wetland C-R-AY-3 Soils

SITE PHOTOGRAPHS

Project/Site: CHPE	City/County: Moreau / Saratoga Sampling Date: 11/24/21					
Applicant/Owner: TDI	State: NY Sampling Point: WET C-R-AY-3					
Investigator(s): J. Greaves, C. Scrivner	Section, Township, Range:					
Landform (hillside, terrace, etc.): Hillslope Local I	relief (concave, convex, none): Concave Slope %: 30					
Subregion (LRR or MLRA): LRR R Lat: 43-13-20.94N	Long: 73-37-6.23W Datum: WGS 84					
Soil Map Unit Name: FI - Fluvaqvents frequently flooded	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						
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 C-R-AY-3					
Remarks: (Explain alternative procedures here or in a separate report.) Palustrine 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)					
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) X Oxidized Rhizospheres of	<u> </u>					
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	<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):	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:)	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.		<u> </u>		Percent of Dominant Species That Are OBL, FACW, or FAC: 83.3% (A/B)
7				Prevalence Index worksheet:
		=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15')				OBL species x 1 = 70
1. Alnus incana	3	Yes	FACW	FACW species 28 x 2 = 56
2. Lonicera morrowii	2	Yes	FACU	FAC species 0 x 3 = 0
3				FACU species 2 x 4 = 8
4.				UPL species0 x 5 =0
5				Column Totals: 100 (A) 134 (B)
6.				Prevalence Index = B/A = 1.34
7.				Hydrophytic Vegetation Indicators:
	5	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5')				X 2 - Dominance Test is >50%
1. Solidago gigantea	25	Yes	FACW	X 3 - Prevalence Index is ≤3.0 ¹
2. Carex lurida	20	Yes	OBL	4 - Morphological Adaptations ¹ (Provide supporting
3. Juncus effusus	20	Yes	OBL	data in Remarks or on a separate sheet)
Carex vulpinoidea	20	Yes	OBL	Problematic Hydrophytic Vegetation ¹ (Explain)
5. Scirpus cyperinus	10	No	OBL	
6.				¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
7.				Definitions of Vegetation Strata:
8.				Total Washington Ois (7.0 see) as a see is discussed
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.				
	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				
3				Hydrophytic Vegetation
4.				Present? Yes X No
		=Total Cover		
Remarks: (Include photo numbers here or on a separa	ate sheet.)	-		
	,			

Sampling Point: WET C-R-AY-3

SOIL Sampling Point: WET C-R-AY-3

Depth	ription: (Describe to Matrix	o the dep		ment tn x Featur		tor or co	nfirm the absence of	indicators.)	
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks	
0-12	10YR 3/1	68	10YR 5/4	10	С	М	Loamy/Clayey	Distinct redox concentrations	
			7.5YR 5/8	20	С	М		Prominent redox concentrations	
			7.5YR 5/8	2	С	PL		Prominent redox concentrations	
12-18	2.5Y 4/1	85	10YR 2/1	5	С	М	Loamy/Clayey	Distinct redox concentrations	
			10YR 5/6	10	<u>C</u>	M		Prominent redox concentrations	
<u></u>									
¹ Type: C=Co	oncentration, D=Deple	etion RM:	=Reduced Matrix M	S=Mask	ed Sand	Grains	2l ocation: P	 L=Pore Lining, M=Matrix.	
Hydric Soil I		20011, 12101-	-reduced Matrix, IVI	0-Mask	ca Garia	Oranis.		or Problematic Hydric Soils ³ :	
Histosol			Polyvalue Belo	w Surfac	e (S8) (L	RR R.		ick (A10) (LRR K, L, MLRA 149B)	
	ipedon (A2)		MLRA 149B		,	,	? Coast Prairie Redox (A16) (LRR K, L, R)		
Black His			Thin Dark Surfa	'	(LRR R.	MLRA 1		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						
		(//11)				Λ Λ , L)	Thin Dark Surface (S9) (LRR K, L)		
	Below Dark Surface	(A11)	Loamy Gleyed		-2)		Iron-Manganese Masses (F12) (LRR K, L, R)		
	rk Surface (A12)		Depleted Matrix	, ,	_\			nt Floodplain Soils (F19) (MLRA 149B)	
	ucky Mineral (S1)		X Redox Dark Su	•	,			podic (TA6) (MLRA 144A, 145, 149B)	
	leyed Matrix (S4)		Depleted Dark		, ,			ent Material (F21)	
	edox (S5)		? Redox Depress	,	3)			allow Dark Surface (F22)	
Stripped	Matrix (S6)		Marl (F10) (LR	R K, L)			Other (E	xplain in Remarks)	
Dark Sur	face (S7)								
³ Indicators of	hydrophytic vegetation	on and we	tland hydrology mus	st be pre	sent, unl	ess distu	rbed or problematic.		
	.ayer (if observed):								
Type: _ Depth (in	nches):						Hydric Soil Preser	nt? Yes X No	
Remarks:							.,	<u> </u>	



Wetland C-R-AY-3 View facing west/southwest



Wetland C-R-AY-3 Soils

SITE PHOTOGRAPHS

Project/Site: CHPE	City/County: Moreau / Saratoga Sampling Date: 11/24/21				
Applicant/Owner: TDI	State: NY Sampling Point: UPLC-R-AY-3				
Investigator(s): J. Greaves, C. Scrivner	Section, Township, Range:				
Landform (hillside, terrace, etc.): Hillslope Local	relief (concave, convex, none): Concave Slope %: 40				
Subregion (LRR or MLRA): LRR R Lat: 43-13-20.27N	Long: 73-37-6.30W Datum: WGS 84				
Soil Map Unit Name: FI - Fluvaqvents frequently flooded	NWI classification: NA				
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes X No (If no, explain in Remarks.)				
Are Vegetation, Soil, or Hydrology significantly disturb					
Are Vegetation, Soil, or Hydrologynaturally problema					
SUMMART 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 (B	B9) Drainage Patterns (B10)				
High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)				
Saturation (A3) Marl Deposits (B15)	Dry-Season Water Table (C2)				
Water Marks (B1) Hydrogen Sulfide Odor (
Sediment Deposits (B2) Oxidized Rhizospheres of					
Drift Deposits (B3) Presence of Reduced Iro	· ,				
Algal Mat or Crust (B4) Recent Iron Reduction in					
Iron Deposits (B5) Thin Muck Surface (C7)					
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:				
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: 0 (A)
3. 4.				Total Number of Dominant Species Across All Strata: 2 (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:)				OBL species 0 x 1 = 0
1. Rubus occidentalis	5	Yes	UPL	FACW species 0 x 2 = 0
2.		<u> </u>		FAC species19 x 3 =57
3.				FACU species 75 x 4 = 300
4				UPL species11 x 5 =55
5				Column Totals: 105 (A) 412 (B)
6.				Prevalence Index = B/A = 3.92
7.				Hydrophytic Vegetation Indicators:
	5	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5')				2 - Dominance Test is >50%
1. Solidago canadensis	75	Yes	FACU	3 - Prevalence Index is ≤3.0 ¹
2. Setaria pumila	19	No	FAC	4 - Morphological Adaptations ¹ (Provide supporting
3. Asclepias syriaca	6	No	UPL	data in Remarks or on a separate sheet)
4.				Problematic Hydrophytic Vegetation ¹ (Explain)
5.				
6.				¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
7.				Definitions of Vegetation Strata:
8.				-
9.				Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
10		<u> </u>		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.
<u>Woody Vine Stratum</u> (Plot size:) 1				Woody vines – All woody vines greater than 3.28 ft in height.
2				g.m
2		· ——		Hydrophytic
				Vegetation Present? Yes No X
4.		T		Present?
		=Total Cover		
Remarks: (Include photo numbers here or on a separa	ate sheet.)			

Sampling Point: UPL C-R-AY-3

SOIL Sampling Point: UPL C-R-AY-3

Profile Description: (Describe to the de				or or co	nfirm the absence of indicators.)
Depth Matrix	-	k Feature		. 2	- .	
(inches) Color (moist) %	Color (moist)	<u>%</u>	Type ¹	Loc ²	Texture	Remarks
0-12 10YR 2/1 100					Sandy	
¹ Type: C=Concentration, D=Depletion, RM	I—Poducod Matrix M	S-Mack	od Sand (Grains	² Location: PL=Pore Lini	og M-Matrix
Hydric Soil Indicators:	=Reduced Matrix, Mc	3=IVIASN	eu Sanu v	Jianis.	Indicators for Problema	
Histosol (A1)	Polyvalue Belov	w Surfac	e (S8) (L	RR R.		RR K, L, MLRA 149B)
Histic Epipedon (A2)	MLRA 149B)		- () (-	,		(A16) (LRR K, L, R)
Black Histic (A3)	Thin Dark Surfa		(LRR R,	MLRA 1		Peat (S3) (LRR K, L, R)
Hydrogen Sulfide (A4)	High Chroma S	ands (S	11) (LRR	K, L)		rface (S8) (LRR K, L)
Stratified Layers (A5)	Loamy Mucky N	Mineral (F1) (LRR	K, L)	Thin Dark Surface (S	S9) (LRR K, L)
Depleted Below Dark Surface (A11)	Loamy Gleyed	Matrix (F	2)		Iron-Manganese Ma	sses (F12) (LRR K, L, R)
Thick Dark Surface (A12)	Depleted Matrix	(F3)			Piedmont Floodplain	n Soils (F19) (MLRA 149B)
Sandy Mucky Mineral (S1)	Redox Dark Su	rface (F	6)		Mesic Spodic (TA6)	(MLRA 144A, 145, 149B)
Sandy Gleyed Matrix (S4)	Depleted Dark	Surface	(F7)		Red Parent Material	(F21)
Sandy Redox (S5)	Redox Depress		3)		Very Shallow Dark S	
Stripped Matrix (S6)	Marl (F10) (LRI	R K, L)			Other (Explain in Re	emarks)
? Dark Surface (S7)						
3						
³ Indicators of hydrophytic vegetation and w	etland hydrology mus	st be pre	sent, unic	ess distui	bed or problematic.	
Restrictive Layer (if observed): Type: Gravel						
••						
Depth (inches): 12					Hydric Soil Present?	Yes No _X
Remarks:						



Upland C-R-AY-3 View facing east/northeast



Upland C-R-AY-3 Soils

SITE PHOTOGRAPHS

Applicant/Owner: TDI State: NY Sampling Point: WET C-R- Investigator(s): J. Greaves, C. Scrivner Section, Township, Range:
Investigator(s): J. Greaves, C. Scrivner Section, Township, Range:
Landform (hillside, terrace, etc.): Hillslope Local relief (concave, convex, none): Concave Slope %: 38
Subregion (LRR or MLRA): LRR R Lat: 43-13-12.52N Long: 73-37-16.87W Datum: WGS 84
Soil Map Unit Name: Wa - Wareham loamy sand 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 disturbed? Are "Normal Circumstances" present? Yes X No
Are 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, e
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 C-R-AY-26
Remarks: (Explain alternative procedures here or in a separate report.) Palustrine Forested Wetland - Red-maple Hardwood Swamp
HYDROLOGY
Wetland Hydrology Indicators: Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply) Surface Soil Cracks (B6)
X Surface Water (A1) X Water-Stained Leaves (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 (C1) Crayfish Burrows (C8)
Sediment Deposits (B2)Oxidized Rhizospheres on Living Roots (C3)Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B3) Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4)Recent Iron Reduction in Tilled Soils (C6)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) X FAC-Neutral Test (D5)
Field Observations:
Surface Water Present? Yes X No Depth (inches): 3
Water Table Present? Yes X No Depth (inches): 4
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:
1. Acer rubrum	30	Yes	FAC	Dominance rest worksneet.
	20	Yes	FAC	Number of Dominant Species That Are OBL, FACW, or FAC: 5 (A)
	10			That Are Obl., FACW, or FAC(A)
Tsuga canadensis Ulmus americana	5	No No	FACU FACW	Total Number of Dominant Species Across All Strata: 5 (B)
Ulmus americana 5.	5	INO	FACV	Species Across All Strata: 5 (B)
6.				Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
7.				Prevalence Index worksheet:
	65	=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size:)				OBL species 0 x 1 = 0
1. Cornus sericea	30	Yes	FACW	FACW species 80 x 2 = 160
2. <u>Ilex verticillata</u>	10	Yes	FACW	FAC species 50 x 3 = 150
3				FACU species10 x 4 =40
4.				UPL species 5 x 5 = 25
5.				Column Totals: 145 (A) 375 (B)
6.				Prevalence Index = B/A = 2.59
7.				Hydrophytic Vegetation Indicators:
	40	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5')				X 2 - Dominance Test is >50%
1. Onoclea sensibilis	30	Yes	FACW	X 3 - Prevalence Index is ≤3.0 ¹
2. Cornus sericea	5	No	FACW	4 - Morphological Adaptations ¹ (Provide supporting
Athyrium filix-femina			UPL	data in Remarks or on a separate sheet)
4.		110	0. 2	Problematic Hydrophytic Vegetation ¹ (Explain)
5.				<u> </u>
6.				¹ 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
	40	=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.)			
(,	,			

Sampling Point: NET C-R-AY-26

SOIL Sampling Point: WET C-R-AY-26

Profile Desc Depth	ription: (Describe to Matrix	o the dep		ment the x Feature		or or co	nfirm the absence of	indicators.)	
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks	
0-5	10YR 3/1	95	2.5YR 3/3	5	С	М	Loamy/Clayey	Prominent redox concentrations	
5-14	10YR 4/1	75	10YR 4/4	20	С	М	Loamy/Clayey	Distinct redox concentrations	
			10YR 5/4	5	С	M		Distinct redox concentrations	
14-16	10YR 4/2	60	10YR 5/6	40	С	М	Sandy	Prominent redox concentrations	
¹Type: C=Co	ncentration D-Denie	ation PM-	-Peduced Matrix M	S-Mask	ed Sand	Grains	² Location: P	L=Pore Lining, M=Matrix.	
Type: C=Concentration, D=Depletion, RN Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7)			Polyvalue Below MLRA 149B) Thin Dark Surfa High Chroma S Loamy Mucky M Loamy Gleyed X Depleted Matrix X Redox Dark Su Depleted Dark Su Pepleted Dark Su Redox Depress Marl (F10) (LRI) ace (S9) Bands (S Mineral (I Matrix (F x (F3) Inface (F6 Surface Sions (F8 R K, L)	(LRR R, 11) (LRF F1) (LRF F2) 6) (F7)	MLRA 1 8 K, L) 8 K, L)	Indicators for Problematic Hydric Soils ³ : 2 cm Muck (A10) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) 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 (in	ches):						Hydric Soil Preser	nt? Yes <u>X</u> No	
Remarks:									



Wetland C-R-AY-26 View facing north



Wetland C-R-AY-26 Soils

SITE PHOTOGRAPHS

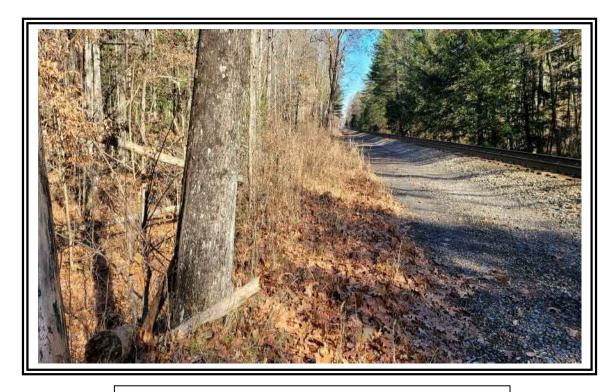
Project/Site: CHPE	City/County: Moreau / Saratoga Sampling Date: 11/24/21
Applicant/Owner: TDI	State: NY Sampling Point: UPL C-R-AY-26
Investigator(s): J. Greaves, C. Scrivner	Section, Township, Range:
	relief (concave, convex, none): Concave Slope %: 40
Subregion (LRR or MLRA): LRR R Lat: 43-13-12.39N	Long: 73-37-16.30W Datum: WGS 84
Soil Map Unit Name: Wa - Wareham loamy sand	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 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:
Successional Northern Hardwood Forest on railroad 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 (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	
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 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):	
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	evious inspections), if available:
Remarks:	

Free Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:		
1. Quercus rubra	30	Yes	FACU			
2. Populus deltoides	15	Yes	FAC	Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)		
3. Ulmus americana	5	No	FACW			
4. Fagus grandifolia	5	No	FACU	Total Number of Dominant Species Across All Strata: 6 (B)		
5.				``,		
3.				Percent of Dominant Species That Are OBL, FACW, or FAC: 33.3% (A/B)		
7.				Prevalence Index worksheet:		
	55	=Total Cover		Total % Cover of: Multiply by:		
Sapling/Shrub Stratum (Plot size: 15')				OBL species 0 x 1 = 0		
1. Lonicera morrowii	25	Yes	FACU	FACW species 15 x 2 = 30		
2. Ulmus americana	5	No	FACW	FAC species 50 x 3 = 150		
3. Fraxinus pennsylvanica	5	No	FACW	FACU species 100 x 4 = 400		
4. Fagus grandifolia	5	No	FACU	UPL species 30 x 5 = 150		
5.				Column Totals: 195 (A) 730 (B)		
5.				Prevalence Index = B/A = 3.74		
7.				Hydrophytic Vegetation Indicators:		
	40	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation		
Herb Stratum (Plot size:5')				2 - Dominance Test is >50%		
1. Setaria pumila	20	Yes	FAC	3 - Prevalence Index is ≤3.0 ¹		
2. Lonicera morrowii	20	Yes	FACU	4 - Morphological Adaptations ¹ (Provide supporting		
3. Rubia peregrina	20	Yes	UPL	data in Remarks or on a separate sheet)		
4. Solidago rugosa	15	No	FAC	Problematic Hydrophytic Vegetation ¹ (Explain)		
5. Solidago canadensis	15	No	FACU	¹ Indicators of hydric soil and wetland hydrology must be		
6. Pastinaca sativa	5	No	UPL	present, unless disturbed or problematic.		
7. Daucus carota	5	No	UPL	Definitions of Vegetation Strata:		
3				Tree – Woody plants 3 in. (7.6 cm) or more in diameter		
Э				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.		
Noody Vine Stratum (Plot size: 30')				Woody vines – All woody vines greater than 3.28 ft in		
1				height.		
				Undrankraia		
2.				Hydrophytic		
				Vegetation		
2.				Present? Yes No X		

Sampling Point: UPL C-R-AY-2€

SOIL Sampling Point: UPL C-R-AY-26

		the dep				or or co	nfirm the absence of inc	dicators.)	
Depth	Matrix			x Feature		. 2	- .		
(inches)	Color (moist)	%	Color (moist)	<u>%</u>	Type ¹	Loc ²	Texture	Remarks	
0-13	10YR 2/1	100					Sandy	with gravel	
1Tyroc: C-Co	ncentration, D=Deple	tion DM	-Poducod Matrix M	S_Mack	od Sand (Grains	² Location: DL –	Pore Lining, M=Matrix.	
Hydric Soil Ir		tion, Kivi-	-Neduced Matrix, Mi	3=IVIASK	eu Sanu v	Jianis.		Problematic Hydric Soils ³ :	
Histosol (Polyvalue Belo	w Surfac	e (S8) (L	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		y Peat or Peat (S3) (LRR K, L, R)	
Hydrogen	Sulfide (A4)		High Chroma S	Sands (S	11) (LRR	K, L)	Polyvalue E	Below Surface (S8) (LRR K, L)	
Stratified	Layers (A5)		Loamy Mucky N	Mineral (F1) (LRR	K, L)	Thin Dark S	Surface (S9) (LRR K, L)	
Depleted	Below Dark Surface	(A11)	Loamy Gleyed	Matrix (F	- 2)		Iron-Manganese Masses (F12) (LRR K, L, R)		
Thick Dar	k Surface (A12)		Depleted Matrix	к (F3)			Piedmont Floodplain Soils (F19) (MLRA 149B)		
Sandy Mu	ucky Mineral (S1)		Redox Dark Su	ırface (F	6)		Mesic Spoo	dic (TA6) (MLRA 144A, 145, 149B)	
Sandy Gl	eyed Matrix (S4)		Depleted Dark	Surface	(F7)		Red Parent	: Material (F21)	
Sandy Re			Redox Depress		3)			w Dark Surface (F22)	
	Matrix (S6)		Marl (F10) (LR	R K, L)			Other (Exp	lain in Remarks)	
Dark Surf	ace (S7)								
31. 12	l land da anadada		de elle ledere e			P	I a I a constitue of		
	hydrophytic vegetatic ayer (if observed):	on and we	tiand nydrology mus	st be pre	sent, unie	ess distui	bed or problematic.		
Type:	Gravel/F	Rock							
_							Undein Cail Descent	Van Na V	
Depth (in	cnes):	13					Hydric Soil Present?	Yes No _X	
Remarks:									



Upland C-R-AY-26 View facing north/northeast



Upland C-R-AY-26 Soils

SITE PHOTOGRAPHS

Project/Site: CHPE	City/County: Moreau / Saratoga Sampling Date: 11/24/21
Applicant/Owner: TDI	State: NY Sampling Point: WET CR-AY-47
Investigator(s): J. Greaves, C. Scrivner	Section, Township, Range:
Landform (hillside, terrace, etc.): Depression Local r	relief (concave, convex, none): Concave Slope %: 5
Subregion (LRR or MLRA): LRR R Lat: 43-12-56.13N	Long: 73-37-37.20W Datum: WGS 84
Soil Map Unit Name: Wa - Wareham loamy sand	NWI classification: PFO1
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes X No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly disturb	
Are Vegetation, Soil, or 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 C-R-AY-47
Remarks: (Explain alternative procedures here or in a separate report.) Palustrine Forested Wetland - Red-maple Hardwood Swamp.	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
X Surface Water (A1) X Water-Stained Leaves (B	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	<u> </u>
Drift Deposits (B3) Presence of Reduced Iro	
Algal Mat or Crust (B4)Recent Iron Reduction in	
Iron Deposits (B5) Thin Muck Surface (C7)	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remark	
Sparsely Vegetated Concave Surface (B8)	X FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes 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. Acer rubrum	25	Yes	FAC	New Local Basiness Occasion
Fraxinus pennsylvanica	25	Yes	FACW	Number of Dominant Species That Are OBL, FACW, or FAC: 4 (A)
3. Ulmus americana	5	No	FACW	
4.				Total Number of Dominant Species Across All Strata: 5 (B)
5.				Develop of Deminary Consider
6.				Percent of Dominant Species That Are OBL, FACW, or FAC: 80.0% (A/B)
7.				Prevalence Index worksheet:
	55	=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15')				OBL species 10 x 1 = 10
1. Cornus sericea	25	Yes	FACW	FACW species 105 x 2 = 210
2. Lonicera morrowii	25	Yes	FACU	FAC species25 x 3 =75
3				FACU species30 x 4 =120
4				UPL species0 x 5 =0
5.				Column Totals: 170 (A) 415 (B)
6.				Prevalence Index = B/A = 2.44
7.				Hydrophytic Vegetation Indicators:
	50	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size:5')				X 2 - Dominance Test is >50%
1. Onoclea sensibilis	40	Yes	FACW	X 3 - Prevalence Index is ≤3.0 ¹
2. Carex vulpinoidea	10	No	OBL	4 - Morphological Adaptations ¹ (Provide supporting
3. Cornus sericea	10	No	FACW	data in Remarks or on a separate sheet)
4. Lonicera morrowii	5	No	FACU	Problematic Hydrophytic Vegetation ¹ (Explain)
5				¹ Indicators of hydric soil and wetland hydrology must be
6.				present, unless disturbed or problematic.
7				Definitions of Vegetation Strata:
8				Tree – Woody plants 3 in. (7.6 cm) or more in diameter
9				at breast height (DBH), regardless of height.
10				Sapling/shrub – Woody plants less than 3 in. DBH
11				and greater than or equal to 3.28 ft (1 m) tall.
12				Herb – All herbaceous (non-woody) plants, regardless
	65	=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		

Sampling Point: NET C-R-AY-47

SOIL Sampling Point: WET C-R-AY-47

Depth	cription: (Describe to Matrix	o the de _l		ment the x Feature		tor or co	nfirm the absence of	indicators.)	
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks	
0-11	10YR 3/1	80	10YR 5/3	5	С	M	Loamy/Clayey	Distinct redox concentrations	
			5YR 4/6	15	С	М		Prominent redox concentrations	
11-16	10YR 4/2	60	10YR 5/6	40	<u>C</u>	M	Sandy	Prominent redox concentrations	
					_	_			
¹ Type: C=Co	oncentration, D=Deple	etion, RM	=Reduced Matrix, M	S=Mask	ed Sand	Grains.		L=Pore Lining, M=Matrix.	
Hydric Soil							Indicators for Problematic Hydric Soils ³ :		
Histosol			Polyvalue Belo		ce (S8) (I	LRR R,		ck (A10) (LRR K, L, MLRA 149B)	
	pipedon (A2)		MLRA 149B	,				rairie Redox (A16) (LRR K, L, R)	
Black Hi			Thin Dark Surfa					cky Peat or Peat (S3) (LRR K, L, R)	
	en Sulfide (A4)		High Chroma S				Polyvalue Below Surface (S8) (LRR K, L)		
	d Layers (A5)		Loamy Mucky I			R K, L)	Thin Dark Surface (S9) (LRR K, L)		
	d Below Dark Surface	(A11)	Loamy Gleyed	Matrix (F	- 2)		Iron-Manganese Masses (F12) (LRR K, L, R)		
Thick Da	ark Surface (A12)		Depleted Matrix	x (F3)			Piedmont Floodplain Soils (F19) (MLRA 149B)		
Sandy Mucky Mineral (S1) X Redox Dark Surface (F6)						Mesic Spodic (TA6) (MLRA 144A, 145, 149B)			
Sandy G	Bleyed Matrix (S4)		Depleted Dark Surface (F7)				Red Parent Material (F21)		
Sandy R	Redox (S5)		? Redox Depressions (F8)				Very Shallow Dark Surface (F22)		
Stripped	Matrix (S6)		Marl (F10) (LRR K, L)				Other (Explain in Remarks)		
Dark Su	rface (S7)								
	f hydrophytic vegetatio	on and w	etland hydrology mus	st be pre	sent, unl	less distu	rbed or problematic.		
	Layer (if observed):								
Type:	nches):						Hydric Soil Presen	nt? Yes X No	
Remarks:							Tryunc 3011 Fresen	nt? Yes X No	
rtomanto.									



Wetland C-R-AY-47 View facing west



Wetland C-R-AY-47 Soils

SITE PHOTOGRAPHS

Project/Site: CHPE	City/County: Moreau / Saratoga Sampling Date: 11/24/21
Applicant/Owner: TDI	State: NY Sampling Point: WET C-R-AY-49
Investigator(s): J. Greaves, C. Scrivner	Section, Township, Range:
Landform (hillside, terrace, etc.): Depression Local	relief (concave, convex, none): Convex Slope %: 5
Subregion (LRR or MLRA): LRR R Lat: 43-12-54.73N	Long: 73-37-39.07W Datum: WGS 84
Soil Map Unit Name: Ma - Madalin mucky silty clay 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	
	
SUMMARY OF FINDINGS – Attach site map showing sam	ipling point locations, transects, important leatures, 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 C-R-AY-49
Remarks: (Explain alternative procedures here or in a separate report.) Palustrine 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	<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 (i	
Sediment Deposits (B2) X Oxidized Rhizospheres of Control 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)	<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 X No Depth (inches):	: 3 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: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:
		=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size:15')				OBL species 0 x 1 = 0
1. Salix alba	5	Yes	FACW	FACW species 90 x 2 = 180
2. Lonicera morrowii	5	Yes	FACU	FAC species15 x 3 =45
3. Rubus occidentalis	5	Yes	UPL	FACU species 5 x 4 = 20
4.				UPL species 5 x 5 = 25
5.				Column Totals: 115 (A) 270 (B)
6.				Prevalence Index = B/A = 2.35
7.				Hydrophytic Vegetation Indicators:
	15	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5')		•		X 2 - Dominance Test is >50%
1. Phalaris arundinacea	50	Yes	FACW	X 3 - Prevalence Index is ≤3.0 ¹
Onoclea sensibilis	25	Yes	FACW	4 - Morphological Adaptations ¹ (Provide supporting
Solidago rugosa	15	No	FAC	data in Remarks or on a separate sheet)
Symphyotrichum novae-angliae	10	No	FACW	Problematic Hydrophytic Vegetation ¹ (Explain)
5.		<u> </u>		¹ Indicators of hydric soil and wetland hydrology must be
6				present, unless disturbed or problematic.
7		. ——		Definitions of Vegetation Strata:
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')				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: NET C-R-AY-49

SOIL Sampling Point: WET C-R-AY-49

Profile Desc Depth	ription: (Describe to Matrix	o the dep		ment th x Featur		tor or co	onfirm the absence of	indicators.)	
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks	
0-10	2.5Y 4/1	83	10YR 5/6	2	С	PL	Mucky Loam/Clay	Prominent redox concentrations	
			10YR 4/3	10	С	M		Distinct redox concentrations	
			2.5YR 4/6	5	С	M		Prominent redox concentrations	
10-16	N 3/	85	10YR 4/6	10	С	M	Mucky Loam/Clay	Prominent redox concentrations	
			5YR 5/6	5	<u>C</u>	<u>M</u>		Prominent redox concentrations	
					_				
1Typo: C-Co	oncentration, D=Deple		-Poducod Matrix M	S_Mack	od Sand	Grains	² Location: P	L=Pore Lining, M=Matrix.	
Hydric Soil I		elion, Rivi=	Reduced Matrix, Mi	S=IVIASK	ed Sand	Grains.		or Problematic Hydric Soils ³ :	
-			Dobarduo Polo	w Curfor	o (CO) (I	DD D		· ·	
— Histosol			Polyvalue Belov		æ (58) (I	KKK,		ick (A10) (LRR K, L, MLRA 149B)	
Black His	ipedon (A2)		MLRA 149B) Thin Dark Surfa	'	(I RR R	MI RA		rairie Redox (A16) (LRR K, L, R) ucky 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					rk Surface (S9) (LRR K, L)	
	Below Dark Surface	(A11)	Loamy Gleyed			、 		nganese Masses (F12) (LRR K, L, R)	
	rk Surface (A12)	(,,,,,	X Depleted Matrix		-)		Piedmont Floodplain Soils (F19) (MLRA 149B)		
	ucky Mineral (S1)	•	Redox Dark Su	, ,	6)		Mesic Spodic (TA6) (MLRA 144A, 145, 149B)		
	leyed Matrix (S4)	•	Depleted Dark	,	,		Red Parent Material (F21)		
	edox (S5)	•	? Redox Depress		` ,		Very Shallow Dark Surface (F22)		
	Matrix (S6)	•	Marl (F10) (LRR K, L)				Other (Explain in Remarks)		
Dark Sur	face (S7)	•							
³ Indicators of	hydrophytic vegetation	on and we	tland hydrology mus	st be pre	sent, unl	ess distu	urbed or problematic.		
	ayer (if observed):								
Type:									
Depth (in	nches):						Hydric Soil Preser	nt? Yes X No	
Remarks:									