# APPENDIX M CASE 10-T-0139 WATERBODY INVENTORY (114A) & WETLAND DELINEATION REPORT Package 1C

# Wetland & Waterbodies Delineation Report



# Champlain Hudson Power Express Segment 3-Package 1C

# Whitehall – Fort Ann, New York

CHA Project Number: 066076

Prepared for:

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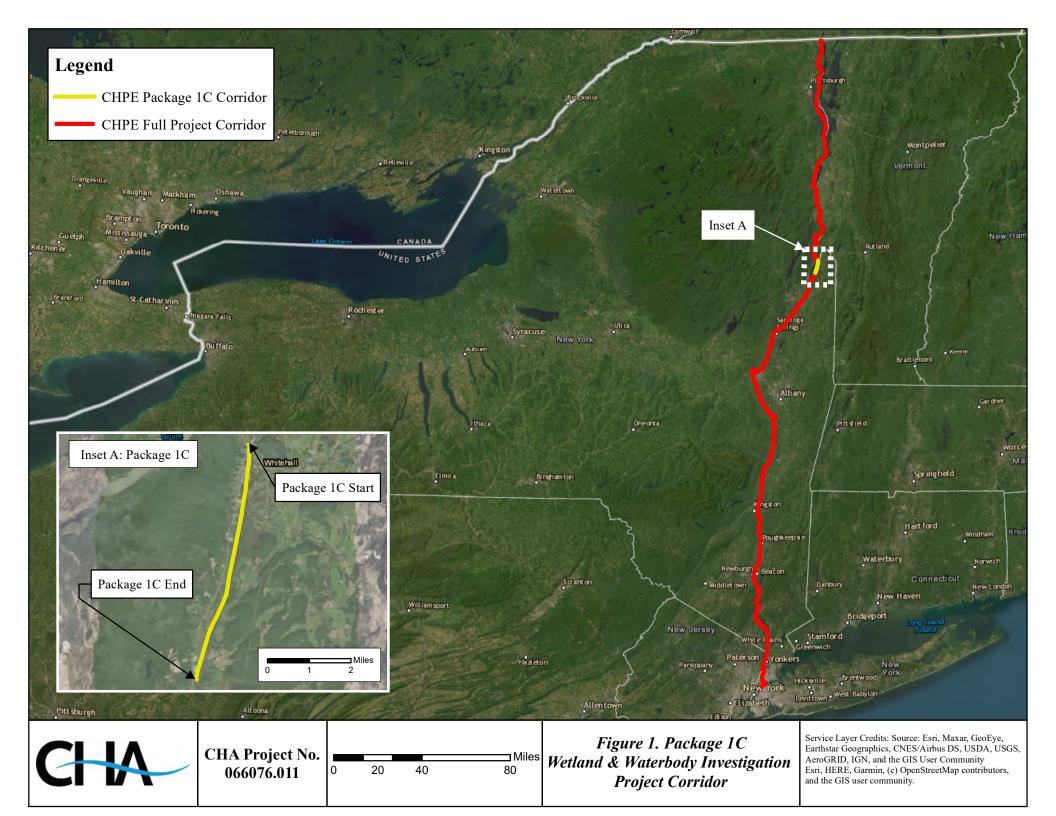
## **1.0 INTRODUCTION**

CHA Consulting, Inc. ("CHA") has prepared this wetland and waterbodies delineation report on behalf of Champlain Hudson Power Express, LLC ("CHPE, LLC") and Kiewit Construction (Kiewit) for the Champlain Hudson Power Express Project (Project). CHA was retained by Kiewit to identify and delineate jurisdictional wetlands and waterways regulated under Section 404 of the Clean Water Act (CWA), Section 10 of the Rivers and Harbors Act of 1899, Article 15 (Title 5 Protection of Waters Program) and Article 24 (Freshwater Wetlands Act (FWW)) of the Environmental Conservation Law along the overland transmission cable route that follows State, county and local roadways and railroad rights-of-way ("ROW"), herein referred to as the Project Corridor. Delineations were conducted with the objective of verifying and updating previous wetland delineations performed for the Project Corridor as part of the Article VII and Section 10/404 permitting processes. This report describes the wetland delineation methodology and the existing wetland and waterbody resources that were identified in the Project Corridor during field surveys for the overland portions of the Project.

## 2.0 PACKAGE 1C 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 5.9 miles of the Package 1C Project Corridor that was investigated for wetlands and waterbodies.

Segment 3 - Package 1C begins at the cross-over from State Route 22 to the Canadian Pacific (CP) railroad in the Village of Whitehall, NY, extending 5.9 miles to the crossover from CP Rail to Old Route 4 in the Town of Whitehall, NY, just north of the municipal boundary with the Town of Fort Ann.



## 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) jurisdictional wetlands. The delineation criteria and methodology were performed in accordance with the United States Army Corps of Engineers (USACE) 1987 Wetland Delineation Manual, the *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Northcentral and Northeast Region* (January 2012), as well as the *New York State Freshwater Wetlands Delineation Manual* (Browne et. al., 1995).

The Project Corridor for the surveyed portions of the project included primarily the land within CP railroad ROW and adjacent properties, as necessary, to accommodate alignment changes, laydown areas, and access roads. The wetland delineation limits were approximately 100 feet from the outside edge of rail, limited to the side of the road or railroad corridor on which the alignment follows and within the ROW of the roads and railroad. Excursions beyond these limits were required for re-alignments, laydown areas, and access roads, as previously discussed.

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

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

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

collected for changes in vegetative communities. Wetland Determination Data Sheets corresponding to each point can be found in Attachment 1.

Wetlands within the Segment 3 - Package 1C Project Corridor fall under the jurisdiction of the New York State Department of Environmental Conservation (NYSDEC) and/or the USACE. The New York State methodology similarly recognizes the three parameters of vegetation, soils, and hydrology; however, under the New York State method 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, they use field delineation to determine the precise boundaries of these wetland areas.

Prior to actual field delineations for wetland resources, CHA reviewed USGS 7.5-minute topographic maps, aerial photographs, National Wetland Inventory (NWI) mapping, United States Department of Agriculture (USDA) Natural Resources Conservation Service (NRCS) soil mapping, NYSDEC freshwater wetlands mapping to identify potential wetland features present within the Project Corridor. More importantly, CHA used the previous wetland delineation prepared for this Project Corridor for the purposes of verifying and modifying the previous delineation. Wetland scientists from the CHA Team conducted wetland delineations from October 2021 to November 2022. Refer to Attachment 2 for NWI and NYSDEC Freshwater Wetlands & Stream Mapping and Attachment 3 for NRCS Soil Mapping.

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

This report documents the wetlands and waterbodies potentially under federal and State jurisdiction that were identified in the survey 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 7 wetlands totaling approximately 26.6 acres were identified within the Segment 3 - Package 2 Project Corridor (also defined as the Jurisdiction Determination limits). Table 4-1 in Attachment 4 provides a summary of the wetlands identified along the Project Corridor, including their classification in accordance with Cowardin et al. (1979) and their state or federal jurisdiction. Within this segment there are no State regulated wetlands.

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

### 4.1 VEGETATION

Vegetative communities within wetlands are described according to *Ecological Communities of New York State, Second Edition* (Edinger 2014)<sup>1</sup> and *Classification of Wetlands and Deepwater Habitats of the United States* (Cowardin 1979)<sup>2</sup>. Using this hierarchical wetland classification system three primary cover types were identified for vegetated wetlands in the Project Corridor: palustrine emergent (PEM), palustrine scrub-shrub (PSS), and palustrine forested (PFO) wetlands. Some wetlands contained co-dominant emergent, scrub-shrub, or forested vegetation. Open water areas were identified as palustrine unconsolidated bottom (PUB).

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

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

#### 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 co-dominant wetland type when other plant community types exist within the wetland.

Shallow emergent marshes occur on mineral soils or deep muck soils that are permanently saturated and seasonally flooded. Water depths range from 6 inches to 3.3 feet during flood stages (Edinger et. al., 2014). Characteristic vegetation of shallow emergent marshes within the Project Corridor includes cattails (*Typha* spp.), sedges (*Carex* spp.), goldenrods (*Solidago* spp.), field horsetail (*Equisetum arvense*), sensitive fern (*Onoclea sensibilis*), and soft rush (*Juncus effusus*). Invasive species observed within the shallow emergent marshes include reed canary grass (*Phalaris arundinacea*), 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). No deep emergent marshes occur within this Segment.

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

The ditch/artificial intermittent stream community consists of artificial waterways constructed for drainage or irrigation (Edinger et. al., 2014). Vegetation within the ditches is typically dominated by grasses and sedges. Invasive species such as common reed, purple loosestrife, and reed canary grass are commonly found within the ditches along the railroad ROW.

#### 4.1.2 Palustrine Scrub-Shrub Wetland

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

#### 4.1.3 Palustrine Forested Wetland

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

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

Invasive species observed within red maple-hardwood forests included honeysuckle, buckthorn, and purple loosestrife.

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

### 4.1.4 Open Water

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

### 4.2 HYDROLOGY

### 4.2.1 Streams

Table 4-2 lists the 6 streams (perennial [4], intermittent [2]) identified within the Project Corridor. The overland transmission cable route is located within the Lake Champlain Basin. The Lake Champlain Basin drains the area between the Adirondacks in New York and the Green Mountains in Vermont. Perennial waterbodies within the Project Corridor in this watershed are all unnamed tributaries to the Champlain Canal.

#### 4.2.2 Wetlands

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

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

### 4.3 SOILS

The USDA NRCS soil map units for the Project Corridor are provided in Attachment 3. Indicators of hydric soils included muck or evidence of gleyed colors such as histic epipedon (A2), black histic (A3), depleted below dark surface (A11), thick dark surface (A12), sandy redox (S5), dark surface (S7), thin dark surface (S9), loamy gleied matrix (F2), depleted matrix (F3) and redox dark surface (F6) (Attachment 1). Within the Project Corridor, a total of 13 different soil types are mapped by the NRCS. The mapped soil types range from well drained to very poorly drained soils. According to the National List of Hydric Soils prepared by the NRCS (2009), four (4) of the soils mapped within the Project Corridor are classified as hydric soils (Covington silty clay loam, Limerick silt loam, Saco silt loam and Saprists, Aquepts, and Aquents). Hydric soils are defined as soils "that formed under conditions of saturation, flooding, or ponding long enough during the growing season to develop anaerobic conditions in the upper part of the soil" (Federal Register, 1994). Table 4-3 summarizes the soil series in the Project Corridor and lists the soils that are classified as hydric (or associated with wetland hydrology) in the Project Corridor.

Many soils within the Project Corridor are formed from glacial parent materials including outwash, dense till, loose till, and glaciomarine deposits. In active floodplains, soils are formed in recent alluvium. Anthropogenically disturbed soils, associated with 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.

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

These very deep and poorly drained soils formed in calcareous clayey glacio-lacustrine or glacioestuarine 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.

### Hartland Series (HcA)

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

#### **Hollis Series (HLE)**

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

#### Kingsbury Series (KbA & KbB)

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

#### Limerick Series (Lm)

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

#### **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.

### Saco Series (Sa)

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

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

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

### **Teel series (Te)**

These very deep, moderately well drained soils typically on floodplains formed in level, silty alluvial deposits. Slopes range from 0 to 3 percent. The A horizon is generally very dark grayish brown silt loam that has moderate to medium structure. The thickness of the A horizon ranges from 2 to 5 inches. The B horizon typically consists of dark to grayish brown silt loam. It contains redoximorphic features in depths of 12 to 24 inches below the soil surface. This layer has weak to moderate, subangular blocky or prismatic structure. The C horizon generally has similar color to the deeper portions of the B horizon. This horizon consists of silt loam, very fine sandy loam, or fine sandy loam in the fine earth fraction. The C horizon can have plate like divisions from fine stratification.

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

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

## 5.0 SUMMARY

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

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

Confirmation of the wetland boundaries are the responsibility of the involved regulatory agencies with jurisdiction over wetlands and waterbodies within this Phase of the overall project. As previously noted, wetlands within Segment 3 Package 1C are regulated by USACE (Section 10/404). There are no mapped NYS Freshwater Wetlands regulated by NYSDEC (Article 24) within this Segment. Streams and other waterbodies are regulated by USACE (Section 10/404). There are no NYSDEC (Article 15) regulated streams within the Segment. It is anticipated that USACE will take jurisdiction over all the wetlands delineated within the Project Corridor.

### 6.0 **REFERENCES**

- Browne, S. et. al. 1995. New York State Freshwater Wetlands Delineation Manual. New York State Department of Environmental Conservation, Division of Fish and Wildlife, Bureau of Habitat, Albany, NY.
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## ATTACHMENT 1 WETLAND DETERMINATION DATA SHEETS AND WETLAND PHOTOGRAPHS

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

Project/Site: CHPE	City/County: Whitehall/Washington Sampling Date: 1/6/22							
Applicant/Owner: TDI	State: NY Sampling Point: G-R-S-15 Wet							
Investigator(s): J. Greaves & C. Scrivner	Section, Township, Range:							
Landform (hillside, terrace, etc.): Depression/basin	Local relief (concave, convex, none): Concave Slope %: 10							
Subregion (LRR or MLRA): LRR R Lat: 43-32-06N	Long: 73-24-27W Datum: WGS 84							
Soil Map Unit Name:         OP - Orthents and Psamments         NWI classification:         PEM1								
Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No (If no, explain in Remarks.)								
Are Vegetation, Soil, or Hydrologysignificantly	disturbed? Are "Normal Circumstances" present? Yes X No							
Are Vegetation, Soil, or Hydrologynaturally problematic? (If needed, explain any answers in Remarks.)								
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.								
Hydrophytic Vegetation Present? Yes X No	Is the Sampled Area							
Hydric Soil Present? Yes X No	within a Wetland? Yes X No							
Wetland Hydrology Present?   Yes X   No	If yes, optional Wetland Site ID:							
Remarks: (Explain alternative procedures here or in a separate report.) Cattail marsh (from flag 1 to 15).								

#### HYDROLOGY

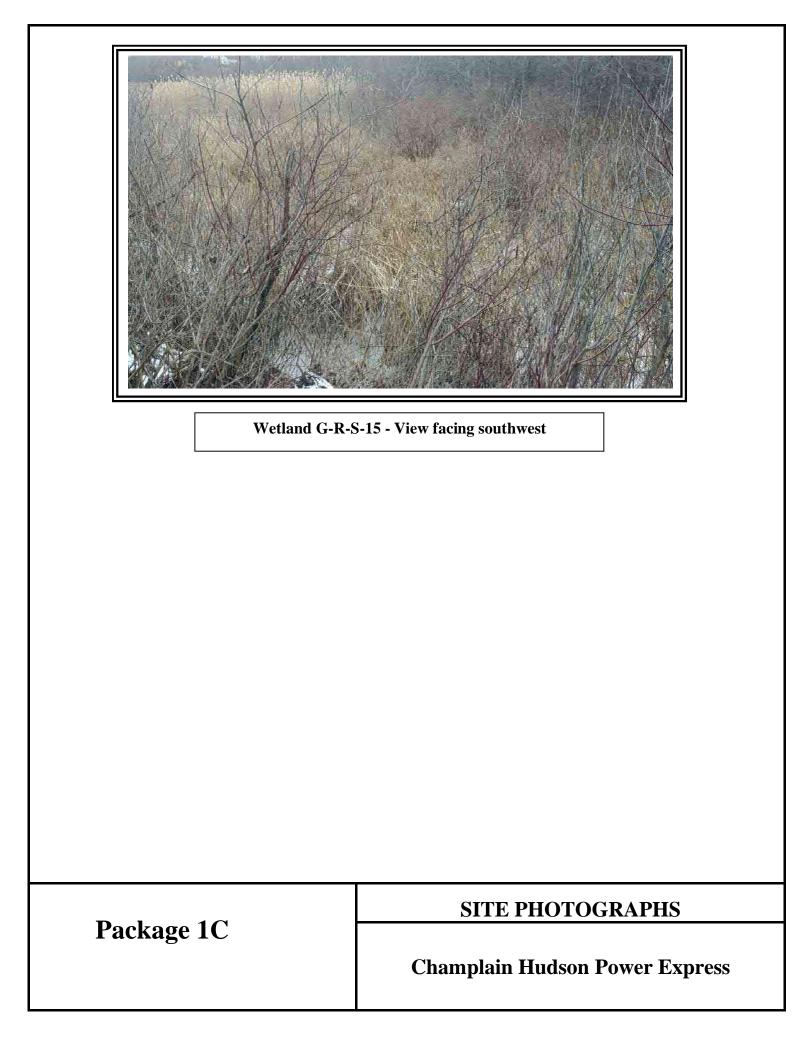
Wetland Hydrology Indicators:			Secondary Indicators (minimum of two required)	
Primary Indicators (minimum of one is require	ed; check all that apply)		Surface Soil Cracks (B6)	
X Surface Water (A1)	Water-Stained Leaves (B9)	-	Drainage Patterns (B10)	
X High Water Table (A2)	Aquatic Fauna (B13)	-	Moss Trim Lines (B16)	
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 Ro	oots (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 Soil	s (C6)	X Geomorphic Position (D2)	
Iron Deposits (B5)	Thin Muck Surface (C7)	-	Shallow Aquitard (D3)	
X Inundation Visible on Aerial Imagery (B7	) Other (Explain in Remarks)	-	Microtopographic Relief (D4)	
Sparsely Vegetated Concave Surface (B	8)	-	X FAC-Neutral Test (D5)	
Field Observations:				
Surface Water Present? Yes X	No Depth (inches):8			
Water Table Present? Yes X	No Depth (inches): 0			
Saturation Present? Yes X	No         Depth (inches):         0	Wetland	I Hydrology Present? Yes X No	
		Wetland	I Hydrology Present? Yes X No	
Saturation Present? Yes X	No Depth (inches):0		· · · · · · · · · · · · · · · · · · ·	
Saturation Present?     Yes     X       (includes capillary fringe)	No Depth (inches):0		· · · · · · · · · · · · · · · · · · ·	
Saturation Present?       Yes       X         (includes capillary fringe)	No Depth (inches):0		· · · · · · · · · · · · · · · · · · ·	
Saturation Present?     Yes     X       (includes capillary fringe)	No Depth (inches):0		· · · · · · · · · · · · · · · · · · ·	
Saturation Present?       Yes       X         (includes capillary fringe)	No Depth (inches):0		· · · · · · · · · · · · · · · · · · ·	
Saturation Present?       Yes       X         (includes capillary fringe)	No Depth (inches):0		· · · · · · · · · · · · · · · · · · ·	
Saturation Present?       Yes       X         (includes capillary fringe)	No Depth (inches):0		· · · · · · · · · · · · · · · · · · ·	
Saturation Present?       Yes       X         (includes capillary fringe)	No Depth (inches):0		· · · · · · · · · · · · · · · · · · ·	
Saturation Present?       Yes       X         (includes capillary fringe)	No Depth (inches):0		· · · · · · · · · · · · · · · · · · ·	
Saturation Present?       Yes       X         (includes capillary fringe)	No Depth (inches):0		· · · · · · · · · · · · · · · · · · ·	
Saturation Present?       Yes       X         (includes capillary fringe)	No Depth (inches):0		· · · · · · · · · · · · · · · · · · ·	
Saturation Present?       Yes       X         (includes capillary fringe)	No Depth (inches):0		· · · · · · · · · · · · · · · · · · ·	

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

Sampling Point: G-R-S-15 Wet

<u>Tree Stratum</u> (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1				Number of Dominant Species
2				That Are OBL, FACW, or FAC: (A)
3				Total Number of Dominant
4				Species Across All Strata:3(B)
5 6				Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
				Prevalence Index worksheet:
7		=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15')				$\begin{array}{c c} \hline \\ \hline $
1. Cornus alba	5	Yes	FACW	FACW species 5 $x 2 = 10$
2.				FAC species $0 \times 3 = 0$
3.				FACU species 0 x 4 = 0
4.				UPL species 0 x 5 = 0
5.				Column Totals: 95 (A) 100 (B)
6.				Prevalence Index = B/A = 1.05
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. Typha latifolia	45	Yes	OBL	X 3 - Prevalence Index is $≤3.0^1$
2. Typha angustifolia	45	Yes	OBL	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
3.				data in Remarks or on a separate sheet)
4.				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5.				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
6.				be present, unless disturbed or problematic.
7.				Definitions of Vegetation Strata:
8.				<b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in
9				diameter at breast height (DBH), regardless of height.
10				Sapling/shrub – Woody plants less than 3 in. DBH
11				and greater than or equal to 3.28 ft (1 m) tall.
12				Herb – All herbaceous (non-woody) plants, regardless
	90	=Total Cover		of size, and woody plants less than 3.28 ft tall.
<u>Woody Vine Stratum</u> (Plot size: <u>30'</u> )				Woody vines – All woody vines greater than 3.28 ft in
1				height.
2				Underse in die
3				Hydrophytic Vegetation
4				Present? Yes X No
	:	=Total Cover		
Remarks: (Include photo numbers here or on a sepa	rate sheet.)			

Depth	Matrix		Redo	x Featu			
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture Remarks
					·	·	
					·		
					·	·	
					·	<u> </u>	
					·	<u> </u>	
					·	<u> </u>	
<sup>1</sup> Type: C=C	oncentration, D=Dep	letion, RN	I=Reduced Matrix, I	MS=Mas	ked Sand	l Grains.	<sup>2</sup> Location: PL=Pore Lining, M=Matrix.
Hydric Soil	Indicators:						Indicators for Problematic Hydric Soils <sup>3</sup> :
Histosol	(A1)		Polyvalue Belo	ow Surfa	ace (S8) (	LRR R,	2 cm Muck (A10) (LRR K, L, MLRA 149B
Histic Ep	pipedon (A2)		MLRA 149E	<b>B</b> )			Coast Prairie Redox (A16) (LRR K, L, R)
Black Hi	stic (A3)		Thin Dark Sur	face (S9	) (LRR R	, MLRA 1	49B) 5 cm Mucky Peat or Peat (S3) (LRR K, L
Hydroge	n Sulfide (A4)		High Chroma	Sands (S	S11) ( <b>LRI</b>	R K, L)	Polyvalue Below Surface (S8) (LRR K, L)
Stratified	d Layers (A5)		Loamy Mucky	Mineral	(F1) ( <b>LR</b>	R K, L)	Thin Dark Surface (S9) (LRR K, L)
Depleted	d Below Dark Surface	e (A11)	Loamy Gleyed	Matrix (	(F2)		Iron-Manganese Masses (F12) (LRR K, L
	ark Surface (A12)	. ,	Depleted Matr		. ,		Piedmont Floodplain Soils (F19) (MLRA 1
	lucky Mineral (S1)		Redox Dark S		=6)		Mesic Spodic (TA6) ( <b>MLRA 144A, 145, 1</b> 4
	Gleyed Matrix (S4)		Depleted Dark		-		Red Parent Material (F21)
	Redox (S5)		Redox Depres				Very Shallow Dark Surface (F22)
	Matrix (S6)		Marl (F10) (LF				Other (Explain in Remarks)
	rface (S7)			(((), <b>L</b> )			
<sup>3</sup> Indicatora o	f hydrophytic ycactot	ion and w	atland hydrology m	uat ha n	rocont ur	alooo diati	urbed or problematic
			elianu nyulology m	usi be p	resent, u		urbed or problematic.
	Layer (if observed):						
Type:							
Depth (ii	nches):						Hydric Soil Present? Yes X No
Remarks:							
	lected because domi	nated by	OBL species. stand	ing wate	er. and ab	rupt boun	darv.
				ing hate	, and ab	up: boun	



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

Project/Site: CHPE		City	//County: Whitehall/Washington		Sampling Date:	1/6/22			
Applicant/Owner: TDI			State:	NY	Sampling Point	G-R-S-16 Wet			
Investigator(s): J. Greaves & C. S	crivner		Section, Township, Range:						
Landform (hillside, terrace, etc.):	Depression/basin	Local relief	f (concave, convex, none): <u>Conca</u>	ve	Slope	%: 10			
Subregion (LRR or MLRA): LRR	R Lat:	43-32-08N	Long: <u>73-24-26</u> W		Datum:	WGS 84			
Soil Map Unit Name: OP - Orther	its and Psamments		NWI classi	fication:	PEM1				
Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No (If no, explain in Remarks.)									
Are Vegetation, Soil	, or Hydrology	significantly disturbed?	Are "Normal Circumstance	es" prese	ent? Yes <u>X</u>	No			
Are Vegetation, Soil, or Hydrologynaturally problematic? (If needed, explain any answers in Remarks.)									
SUMMARY OF FINDINGS	SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.								
Hydrophytic Vegetation Present?	Yes X	No	s the Sampled Area						
Hydric Soil Present?	Yes X	No v	vithin a Wetland? Yes	<u>X</u>	No				
Wetland Hydrology Present?	Yes X	No If	yes, optional Wetland Site ID:						
Remarks: (Explain alternative procedures here or in a separate report.) Common reed marsh (from flag 15 to 19).									
, <u>-</u>									
						Ì			

#### HYDROLOGY

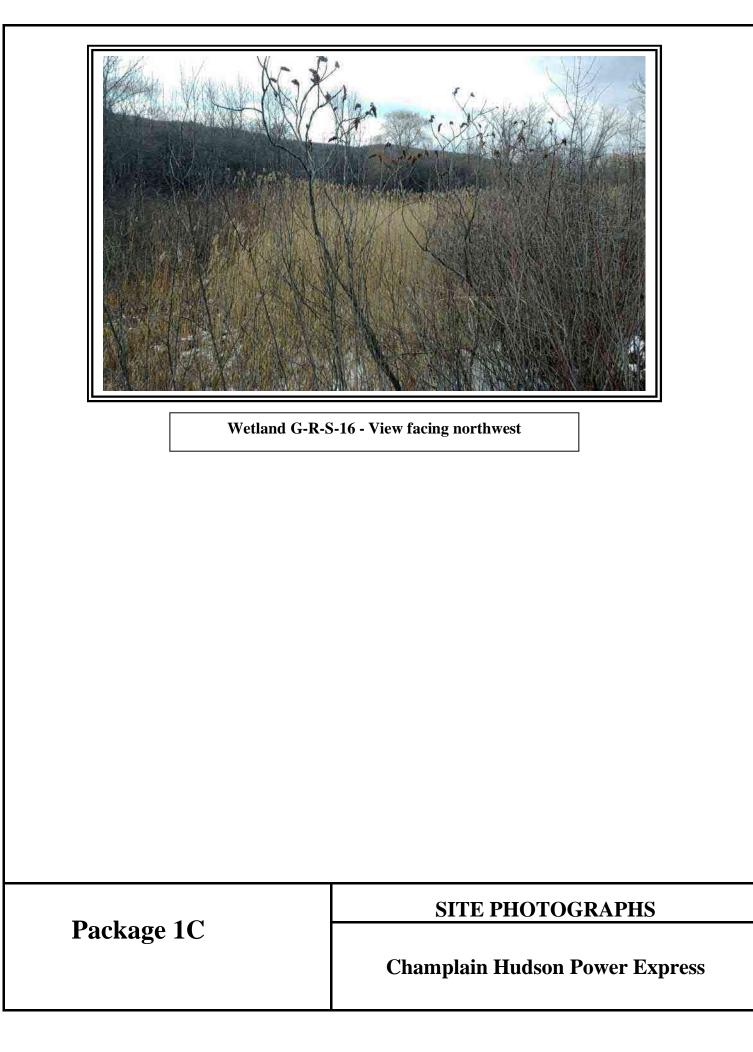
Wetland Hydrology Indicators:			Secondary Indicators (minimum of two required)		
Primary Indicators (minimum of one is requir	Surface Soil Cracks (B6)				
X Surface Water (A1)	Water-Stained Leaves (B9)		Drainage Patterns (B10)		
X High Water Table (A2)	Aquatic Fauna (B13)		Moss Trim Lines (B16)		
Saturation (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 Ro	oots (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 Soil	s (C6)	X Geomorphic Position (D2)		
Iron Deposits (B5)	Shallow Aquitard (D3)				
X Inundation Visible on Aerial Imagery (B7		Microtopographic Relief (D4)			
Sparsely Vegetated Concave Surface (B	8)		X FAC-Neutral Test (D5)		
Field Observations:					
Surface Water Present? Yes X	No Depth (inches): 8				
Water Table Present? Yes X	No Depth (inches): 0				
	No Deptil (ilicites)				
Saturation Present? Yes X	No         Depth (inches):         0           No         Depth (inches):         0	Wetlan	d Hydrology Present? Yes X No		
		Wetlan	d Hydrology Present? Yes X No		
Saturation Present? Yes X	No Depth (inches): 0				
Saturation Present?     Yes     X       (includes capillary fringe)	No Depth (inches): 0				
Saturation Present?       Yes       X         (includes capillary fringe)	No Depth (inches): 0				
Saturation Present?     Yes     X       (includes capillary fringe)	No Depth (inches): 0				
Saturation Present?       Yes       X         (includes capillary fringe)	No Depth (inches): 0				
Saturation Present?       Yes       X         (includes capillary fringe)	No Depth (inches): 0				
Saturation Present?       Yes       X         (includes capillary fringe)	No Depth (inches): 0				
Saturation Present?       Yes       X         (includes capillary fringe)	No Depth (inches): 0				
Saturation Present?       Yes       X         (includes capillary fringe)	No Depth (inches): 0				
Saturation Present?       Yes       X         (includes capillary fringe)	No Depth (inches): 0				
Saturation Present?       Yes       X         (includes capillary fringe)	No Depth (inches): 0				
Saturation Present?       Yes       X         (includes capillary fringe)	No Depth (inches): 0				

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

Sampling Point: G-R-S-16 Wet

<u>Tree Stratum</u> (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1.	// 00/01	000000		
2.				Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)
3.				
4.				Total Number of DominantSpecies Across All Strata:22(B)
5.				Percent of Dominant Species
6				That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)
7				Prevalence Index worksheet:
	:	=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15' )				OBL species x 1 =
1. Cornus alba	5	Yes	FACW	FACW species 105 x 2 = 210
2				FAC species x 3 =
3				FACU species x 4 =0
4				UPL species x 5 =
5				Column Totals: 105 (A) 210 (B)
6				Prevalence Index = B/A =
7				Hydrophytic Vegetation Indicators:
	5	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5')				X 2 - Dominance Test is >50%
1. Phragmites australis	100	Yes	FACW	X_3 - Prevalence Index is ≤3.0 <sup>1</sup>
2				4 - Morphological Adaptations <sup>1</sup> (Provide supporting
3				data in Remarks or on a separate sheet)
4				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
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
	100	=Total Cover		of size, and woody plants less than 3.28 ft tall.
<u>Woody Vine Stratum</u> (Plot size: <u>30'</u> )				Woody vines – All woody vines greater than 3.28 ft in
1				height.
2				Hydrophytic
3				Vegetation
4				Present? Yes X No
		=Total Cover		
Remarks: (Include photo numbers here or on a separ	rate sheet.)			

intermediate       intermediate	Remarks	Texture	Loc <sup>2</sup> T	<u>% Type</u> <sup>1</sup>		Color (moist)         %	(inches)
Hydric Soil Indicators:       Indicators for Problematic H         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, Histic Epipedon (A2)       2 cm Muck (A10) (LRR K, Coast Prairie Redox (A16)         Black Histic (A3)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       5 cm Mucky Peat or Peat         Hydrogen Sulfide (A4)       High Chroma Sands (S11) (LRR K, L)       Polyvalue Below Surface (S9) (L         Stratified Layers (A5)       Loamy Mucky Mineral (F1) (LRR K, L)       Thin Dark Surface (S9) (L         Depleted Below Dark Surface (A11)       Loamy Gleyed Matrix (F2)       Iron-Manganese Masses (Piedmont Floodplain Soils         Sandy Mucky Mineral (S1)       Redox Dark Surface (F6)       Mesic Spodic (TA6) (MLR         Sandy Redox (S5)       Redox Depressions (F8)       Very Shallow Dark Surface         Stripped Matrix (S6)       Marl (F10) (LRR K, L)       Other (Explain in Remarks)         Dark Surface (S7)       Stripped or problematic.       Thin Remarks							
Hydric Soil Indicators:       Indicators for Problematic H         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R,       2 cm Muck (A10) (LRR K,         Histic Epipedon (A2)       MLRA 149B)       Coast Prairie Redox (A16)         Black Histic (A3)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       5 cm Mucky Peat or Peat         Hydrogen Sulfide (A4)       High Chroma Sands (S11) (LRR K, L)       Polyvalue Below Surface (S9) (L         Stratified Layers (A5)       Loamy Mucky Mineral (F1) (LRR K, L)       Thin Dark Surface (S9) (L         Depleted Below Dark Surface (A11)       Loamy Gleyed Matrix (F2)       Iron-Manganese Masses (Piedmont Floodplain Soils         Sandy Mucky Mineral (S1)       Redox Dark Surface (F6)       Mesic Spodic (TA6) (MLR         Sandy Redox (S5)       Redox Depressions (F8)       Very Shallow Dark Surface         Stripped Matrix (S6)       Marl (F10) (LRR K, L)       Other (Explain in Remarks)         Dark Surface (S7)       Predom the memarks       Other (Explain in Remarks)							
Hydric Soil Indicators:       Indicators for Problematic H         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R,       2 cm Muck (A10) (LRR K,         Histic Epipedon (A2)       MLRA 149B)       Coast Prairie Redox (A16)         Black Histic (A3)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       5 cm Mucky Peat or Peat         Hydrogen Sulfide (A4)       High Chroma Sands (S11) (LRR K, L)       Polyvalue Below Surface (S9) (L         Stratified Layers (A5)       Loamy Mucky Mineral (F1) (LRR K, L)       Thin Dark Surface (S9) (L         Depleted Below Dark Surface (A11)       Loamy Gleyed Matrix (F2)       Iron-Manganese Masses (         Thick Dark Surface (A12)       Depleted Matrix (F3)       Piedmont Floodplain Soils         Sandy Mucky Mineral (S1)       Redox Dark Surface (F6)       Mesic Spodic (TA6) (MLR         Sandy Redox (S5)       Redox Depressions (F8)       Very Shallow Dark Surface         Stripped Matrix (S6)       Marl (F10) (LRR K, L)       Other (Explain in Remarks)         Dark Surface (S7)       Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.							
Hydric Soil Indicators:       Indicators for Problematic H         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R,       2 cm Muck (A10) (LRR K,         Histic Epipedon (A2)       MLRA 149B)       Coast Prairie Redox (A16)         Black Histic (A3)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       5 cm Mucky Peat or Peat         Hydrogen Sulfide (A4)       High Chroma Sands (S11) (LRR K, L)       Polyvalue Below Surface (S9) (L         Stratified Layers (A5)       Loamy Mucky Mineral (F1) (LRR K, L)       Thin Dark Surface (S9) (L         Depleted Below Dark Surface (A11)       Loamy Gleyed Matrix (F2)       Iron-Manganese Masses (         Thick Dark Surface (A12)       Depleted Matrix (F3)       Piedmont Floodplain Soils         Sandy Mucky Mineral (S1)       Redox Dark Surface (F6)       Mesic Spodic (TA6) (MLR         Sandy Redox (S5)       Redox Depressions (F8)       Very Shallow Dark Surface         Stripped Matrix (S6)       Marl (F10) (LRR K, L)       Other (Explain in Remarks)         Dark Surface (S7)       Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.							
Hydric Soil Indicators:       Indicators for Problematic H         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R,       2 cm Muck (A10) (LRR K,         Histic Epipedon (A2)       MLRA 149B)       Coast Prairie Redox (A16)         Black Histic (A3)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       5 cm Mucky Peat or Peat         Hydrogen Sulfide (A4)       High Chroma Sands (S11) (LRR K, L)       Polyvalue Below Surface (S9) (L         Stratified Layers (A5)       Loamy Mucky Mineral (F1) (LRR K, L)       Thin Dark Surface (S9) (L         Depleted Below Dark Surface (A11)       Loamy Gleyed Matrix (F2)       Iron-Manganese Masses (         Thick Dark Surface (A12)       Depleted Matrix (F3)       Piedmont Floodplain Soils         Sandy Mucky Mineral (S1)       Redox Dark Surface (F6)       Mesic Spodic (TA6) (MLR         Sandy Redox (S5)       Redox Depressions (F8)       Very Shallow Dark Surface         Stripped Matrix (S6)       Marl (F10) (LRR K, L)       Other (Explain in Remarks)         Dark Surface (S7)       Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.							
Hydric Soil Indicators:       Indicators for Problematic H         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R,       2 cm Muck (A10) (LRR K,         Histic Epipedon (A2)       MLRA 149B)       Coast Prairie Redox (A16)         Black Histic (A3)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       5 cm Mucky Peat or Peat         Hydrogen Sulfide (A4)       High Chroma Sands (S11) (LRR K, L)       Polyvalue Below Surface (S9) (L         Stratified Layers (A5)       Loamy Mucky Mineral (F1) (LRR K, L)       Thin Dark Surface (S9) (L         Depleted Below Dark Surface (A11)       Loamy Gleyed Matrix (F2)       Iron-Manganese Masses (         Thick Dark Surface (A12)       Depleted Matrix (F3)       Piedmont Floodplain Soils         Sandy Mucky Mineral (S1)       Redox Dark Surface (F6)       Mesic Spodic (TA6) (MLR         Sandy Redox (S5)       Redox Depressions (F8)       Very Shallow Dark Surface         Stripped Matrix (S6)       Marl (F10) (LRR K, L)       Other (Explain in Remarks)         Dark Surface (S7)       Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.							
Hydric Soil Indicators:       Indicators for Problematic H         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R,       2 cm Muck (A10) (LRR K,         Histic Epipedon (A2)       MLRA 149B)       Coast Prairie Redox (A16)         Black Histic (A3)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       5 cm Mucky Peat or Peat         Hydrogen Sulfide (A4)       High Chroma Sands (S11) (LRR K, L)       Polyvalue Below Surface (S9) (L         Stratified Layers (A5)       Loamy Mucky Mineral (F1) (LRR K, L)       Thin Dark Surface (S9) (L         Depleted Below Dark Surface (A11)       Loamy Gleyed Matrix (F2)       Iron-Manganese Masses (         Thick Dark Surface (A12)       Depleted Matrix (F3)       Piedmont Floodplain Soils         Sandy Mucky Mineral (S1)       Redox Dark Surface (F6)       Mesic Spodic (TA6) (MLR         Sandy Redox (S5)       Redox Depressions (F8)       Very Shallow Dark Surface         Stripped Matrix (S6)       Marl (F10) (LRR K, L)       Other (Explain in Remarks)         Dark Surface (S7)       Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.							
Hydric Soil Indicators:       Indicators for Problematic H         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R,       2 cm Muck (A10) (LRR K,         Histic Epipedon (A2)       MLRA 149B)       Coast Prairie Redox (A16)         Black Histic (A3)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       5 cm Mucky Peat or Peat         Hydrogen Sulfide (A4)       High Chroma Sands (S11) (LRR K, L)       Polyvalue Below Surface (S9) (L         Stratified Layers (A5)       Loamy Mucky Mineral (F1) (LRR K, L)       Thin Dark Surface (S9) (L         Depleted Below Dark Surface (A11)       Loamy Gleyed Matrix (F2)       Iron-Manganese Masses (         Thick Dark Surface (A12)       Depleted Matrix (F3)       Piedmont Floodplain Soils         Sandy Mucky Mineral (S1)       Redox Dark Surface (F6)       Mesic Spodic (TA6) (MLR         Sandy Redox (S5)       Redox Depressions (F8)       Very Shallow Dark Surface         Stripped Matrix (S6)       Marl (F10) (LRR K, L)       Other (Explain in Remarks)         Dark Surface (S7)       Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.							
Hydric Soil Indicators:       Indicators for Problematic H         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R,       2 cm Muck (A10) (LRR K,         Histic Epipedon (A2)       MLRA 149B)       Coast Prairie Redox (A16)         Black Histic (A3)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       5 cm Mucky Peat or Peat         Hydrogen Sulfide (A4)       High Chroma Sands (S11) (LRR K, L)       Polyvalue Below Surface (S9) (L         Stratified Layers (A5)       Loamy Mucky Mineral (F1) (LRR K, L)       Thin Dark Surface (S9) (L         Depleted Below Dark Surface (A11)       Loamy Gleyed Matrix (F2)       Iron-Manganese Masses (         Thick Dark Surface (A12)       Depleted Matrix (F3)       Piedmont Floodplain Soils         Sandy Mucky Mineral (S1)       Redox Dark Surface (F6)       Mesic Spodic (TA6) (MLR         Sandy Redox (S5)       Redox Depressions (F8)       Very Shallow Dark Surface         Stripped Matrix (S6)       Marl (F10) (LRR K, L)       Other (Explain in Remarks)         Dark Surface (S7)       Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.			 				
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Hydric Soil Indicators:       Indicators for Problematic H         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R,       2 cm Muck (A10) (LRR K,         Histic Epipedon (A2)       MLRA 149B)       Coast Prairie Redox (A16)         Black Histic (A3)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       5 cm Mucky Peat or Peat         Hydrogen Sulfide (A4)       High Chroma Sands (S11) (LRR K, L)       Polyvalue Below Surface (S9) (L         Stratified Layers (A5)       Loamy Mucky Mineral (F1) (LRR K, L)       Thin Dark Surface (S9) (L         Depleted Below Dark Surface (A11)       Loamy Gleyed Matrix (F2)       Iron-Manganese Masses (         Thick Dark Surface (A12)       Depleted Matrix (F3)       Piedmont Floodplain Soils         Sandy Mucky Mineral (S1)       Redox Dark Surface (F6)       Mesic Spodic (TA6) (MLR         Sandy Redox (S5)       Redox Depressions (F8)       Very Shallow Dark Surface         Stripped Matrix (S6)       Marl (F10) (LRR K, L)       Other (Explain in Remarks)         Dark Surface (S7)       Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.							
Hydric Soil Indicators:       Indicators for Problematic H         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R,       2 cm Muck (A10) (LRR K,         Histic Epipedon (A2)       MLRA 149B)       Coast Prairie Redox (A16)         Black Histic (A3)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       5 cm Mucky Peat or Peat         Hydrogen Sulfide (A4)       High Chroma Sands (S11) (LRR K, L)       Polyvalue Below Surface (S9) (L         Stratified Layers (A5)       Loamy Mucky Mineral (F1) (LRR K, L)       Thin Dark Surface (S9) (L         Depleted Below Dark Surface (A11)       Loamy Gleyed Matrix (F2)       Iron-Manganese Masses (Pick Dark Surface (A12)         Depleted Matrix (F3)       Piedmont Floodplain Soils         Sandy Mucky Mineral (S1)       Redox Dark Surface (F6)       Mesic Spodic (TA6) (MLR         Sandy Redox (S5)       Redox Depressions (F8)       Very Shallow Dark Surface         Stripped Matrix (S6)       Marl (F10) (LRR K, L)       Other (Explain in Remarks)         Dark Surface (S7)       Thin Cate (S7)       Stripped or problematic.							
Hydric Soil Indicators:       Indicators for Problematic H         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R,       2 cm Muck (A10) (LRR K,         Histic Epipedon (A2)       MLRA 149B)       Coast Prairie Redox (A16)         Black Histic (A3)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       5 cm Mucky Peat or Peat         Hydrogen Sulfide (A4)       High Chroma Sands (S11) (LRR K, L)       Polyvalue Below Surface (S9) (L         Stratified Layers (A5)       Loamy Mucky Mineral (F1) (LRR K, L)       Thin Dark Surface (S9) (L         Depleted Below Dark Surface (A11)       Loamy Gleyed Matrix (F2)       Iron-Manganese Masses (         Thick Dark Surface (A12)       Depleted Matrix (F3)       Piedmont Floodplain Soils         Sandy Mucky Mineral (S1)       Redox Dark Surface (F6)       Mesic Spodic (TA6) (MLR         Sandy Redox (S5)       Redox Depressions (F8)       Very Shallow Dark Surface         Stripped Matrix (S6)       Marl (F10) (LRR K, L)       Other (Explain in Remarks)         Dark Surface (S7)       Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.							
Hydric Soil Indicators:       Indicators for Problematic H         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R,       2 cm Muck (A10) (LRR K,         Histic Epipedon (A2)       MLRA 149B)       Coast Prairie Redox (A16)         Black Histic (A3)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       5 cm Mucky Peat or Peat         Hydrogen Sulfide (A4)       High Chroma Sands (S11) (LRR K, L)       Polyvalue Below Surface (S9) (L         Stratified Layers (A5)       Loamy Mucky Mineral (F1) (LRR K, L)       Thin Dark Surface (S9) (L         Depleted Below Dark Surface (A11)       Loamy Gleyed Matrix (F2)       Iron-Manganese Masses (Pick Dark Surface (A12)         Depleted Matrix (F3)       Piedmont Floodplain Soils         Sandy Mucky Mineral (S1)       Redox Dark Surface (F6)       Mesic Spodic (TA6) (MLR         Sandy Redox (S5)       Redox Depressions (F8)       Very Shallow Dark Surface         Stripped Matrix (S6)       Marl (F10) (LRR K, L)       Other (Explain in Remarks)         Dark Surface (S7)       Thin Cate (S7)       Stripped or problematic.		21					T
Histosol (A1)       Polyvalue Below Surface (S8) (LRR R,       2 cm Muck (A10) (LRR K,         Histic Epipedon (A2)       MLRA 149B)       Coast Prairie Redox (A16)         Black Histic (A3)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       5 cm Mucky Peat or Peat         Hydrogen Sulfide (A4)       High Chroma Sands (S11) (LRR K, L)       Polyvalue Below Surface (         Stratified Layers (A5)       Loamy Mucky Mineral (F1) (LRR K, L)       Thin Dark Surface (S9) (LI         Depleted Below Dark Surface (A11)       Loamy Gleyed Matrix (F2)       Iron-Manganese Masses (         Thick Dark Surface (A12)       Depleted Matrix (F3)       Piedmont Floodplain Soils         Sandy Mucky Mineral (S1)       Redox Dark Surface (F6)       Mesic Spodic (TA6) (MLR         Sandy Redox (S5)       Redox Depressions (F8)       Very Shallow Dark Surface         Stripped Matrix (S6)       Marl (F10) (LRR K, L)       Other (Explain in Remarks)         Dark Surface (S7)       Intermarks       Other (Explain in Remarks)	-		Grains.	Masked Sand	I=Reduced Matrix, I		
Histic Epipedon (A2)MLRA 149B)Coast Prairie Redox (A16)Black Histic (A3)Thin Dark Surface (S9) (LRR R, MLRA 149B)5 cm Mucky Peat or PeatHydrogen Sulfide (A4)High Chroma Sands (S11) (LRR K, L)Polyvalue Below Surface (Stratified Layers (A5)Loamy Mucky Mineral (F1) (LRR K, L)Thin Dark Surface (S9) (LIDepleted Below Dark Surface (A11)Loamy Gleyed Matrix (F2)Iron-Manganese Masses (Thick Dark Surface (A12)Depleted Matrix (F3)Piedmont Floodplain SoilsSandy Mucky Mineral (S1)Redox Dark Surface (F6)Mesic Spodic (TA6) (MLRSandy Redox (S5)Redox Depressions (F8)Very Shallow Dark SurfaceStripped Matrix (S6)Marl (F10) (LRR K, L)Other (Explain in Remarks)Dark Surface (S7)Intermation and wetland hydrology must be present, unless disturbed or problematic.	-						-
Black Histic (A3)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       5 cm Mucky Peat or Peat         Hydrogen Sulfide (A4)       High Chroma Sands (S11) (LRR K, L)       Polyvalue Below Surface (A)         Stratified Layers (A5)       Loamy Mucky Mineral (F1) (LRR K, L)       Thin Dark Surface (S9) (L         Depleted Below Dark Surface (A11)       Loamy Gleyed Matrix (F2)       Iron-Manganese Masses (         Thick Dark Surface (A12)       Depleted Matrix (F3)       Piedmont Floodplain Soils         Sandy Mucky Mineral (S1)       Redox Dark Surface (F6)       Mesic Spodic (TA6) (MLR         Sandy Redox (S5)       Redox Depressions (F8)       Very Shallow Dark Surface         Stripped Matrix (S6)       Marl (F10) (LRR K, L)       Other (Explain in Remarks)         Dark Surface (S7)       Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.	Auck (A10) (LRR K, L, MLRA 149B)		.RR R,	Surface (S8) (L			
Hydrogen Sulfide (A4)       High Chroma Sands (S11) (LRR K, L)       Polyvalue Below Surface (C         Stratified Layers (A5)       Loamy Mucky Mineral (F1) (LRR K, L)       Thin Dark Surface (S9) (L         Depleted Below Dark Surface (A11)       Loamy Gleyed Matrix (F2)       Iron-Manganese Masses (C         Thick Dark Surface (A12)       Depleted Matrix (F3)       Piedmont Floodplain Soils         Sandy Mucky Mineral (S1)       Redox Dark Surface (F6)       Mesic Spodic (TA6) (MLR         Sandy Gleyed Matrix (S4)       Depleted Dark Surface (F7)       Red Parent Material (F21)         Sandy Redox (S5)       Redox Depressions (F8)       Very Shallow Dark Surface         Stripped Matrix (S6)       Marl (F10) (LRR K, L)       Other (Explain in Remarks)         Dark Surface (S7)       Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.	Prairie Redox (A16) (LRR K, L, R)						
Stratified Layers (A5)       Loamy Mucky Mineral (F1) (LRR K, L)       Thin Dark Surface (S9) (L)         Depleted Below Dark Surface (A11)       Loamy Gleyed Matrix (F2)       Iron-Manganese Masses (         Thick Dark Surface (A12)       Depleted Matrix (F3)       Piedmont Floodplain Soils         Sandy Mucky Mineral (S1)       Redox Dark Surface (F6)       Mesic Spodic (TA6) (MLR         Sandy Gleyed Matrix (S4)       Depleted Dark Surface (F7)       Red Parent Material (F21)         Sandy Redox (S5)       Redox Depressions (F8)       Very Shallow Dark Surface         Stripped Matrix (S6)       Marl (F10) (LRR K, L)       Other (Explain in Remarks)         Dark Surface (S7)       Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.	/lucky Peat or Peat (S3) ( <b>LRR K, L, R</b>		-				
Depleted Below Dark Surface (A11)       Loamy Gleyed Matrix (F2)       Iron-Manganese Masses (         Thick Dark Surface (A12)       Depleted Matrix (F3)       Piedmont Floodplain Soils         Sandy Mucky Mineral (S1)       Redox Dark Surface (F6)       Mesic Spodic (TA6) (MLR         Sandy Gleyed Matrix (S4)       Depleted Dark Surface (F7)       Red Parent Material (F21)         Sandy Redox (S5)       Redox Depressions (F8)       Very Shallow Dark Surface         Stripped Matrix (S6)       Marl (F10) (LRR K, L)       Other (Explain in Remarks)         Dark Surface (S7)       Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.	lue Below Surface (S8) (LRR K, L)						
Thick Dark Surface (A12)       Depleted Matrix (F3)       Piedmont Floodplain Soils         Sandy Mucky Mineral (S1)       Redox Dark Surface (F6)       Mesic Spodic (TA6) (MLR         Sandy Gleyed Matrix (S4)       Depleted Dark Surface (F7)       Red Parent Material (F21)         Sandy Redox (S5)       Redox Depressions (F8)       Very Shallow Dark Surface         Stripped Matrix (S6)       Marl (F10) (LRR K, L)       Other (Explain in Remarks)         Dark Surface (S7)       Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.	ark Surface (S9) ( <b>LRR K, L</b> )	Thin Dark Surf	R K, L)	eral (F1) ( <b>LRF</b>	Loamy Mucky	Layers (A5)	Stratified
Sandy Mucky Mineral (S1)       Redox Dark Surface (F6)       Mesic Spodic (TA6) (MLR         Sandy Gleyed Matrix (S4)       Depleted Dark Surface (F7)       Red Parent Material (F21)         Sandy Redox (S5)       Redox Depressions (F8)       Very Shallow Dark Surface         Stripped Matrix (S6)       Marl (F10) (LRR K, L)       Other (Explain in Remarks)         Dark Surface (S7)       Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.	anganese Masses (F12) ( <b>LRR K, L, R</b>	Iron-Manganes		trix (F2)	Loamy Gleyed	Below Dark Surface (A11)	Depleted
Sandy Gleyed Matrix (S4)       Depleted Dark Surface (F7)       Red Parent Material (F21)         Sandy Redox (S5)       Redox Depressions (F8)       Very Shallow Dark Surface         Stripped Matrix (S6)       Marl (F10) (LRR K, L)       Other (Explain in Remarks)         Dark Surface (S7)       Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.	ont Floodplain Soils (F19) ( <b>MLRA 149</b>	Piedmont Floo		3)	Depleted Matr	rk Surface (A12)	Thick Da
Sandy Redox (S5)       Redox Depressions (F8)       Very Shallow Dark Surface         Stripped Matrix (S6)       Marl (F10) (LRR K, L)       Other (Explain in Remarks)         Dark Surface (S7)       Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.	Spodic (TA6) ( <b>MLRA 144A, 145, 149</b>	Mesic Spodic		ce (F6)	Redox Dark S	ucky Mineral (S1)	Sandy M
Stripped Matrix (S6)       Marl (F10) (LRR K, L)       Other (Explain in Remarks         Dark Surface (S7)       Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.	arent Material (F21)	Red Parent Ma		face (F7)	Depleted Dark	eyed Matrix (S4)	Sandy G
Dark Surface (S7)	hallow Dark Surface (F22)	Very Shallow [		is (F8)	Redox Depres	edox (S5)	Sandy R
Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.	(Explain in Remarks)	Other (Explain		Κ, L)	Marl (F10) (LF	Matrix (S6)	Stripped
						face (S7)	Dark Sur
	).	ed or problematic.	less disturbed o	pe present, un	etland hydrology m	hydrophytic vegetation and w	Indicators of
Restrictive Layer (if observed):					, , ,		
Turner							
		Ukudaia Osil Dassast0					-
Depth (inches): Hydric Soil Present? Yes _	ent? Yes <u>X</u> No	Hydric Soil Present?	Hydi			ches):	Depth (Ir
Remarks:			·				Remarks:
		ry.	upt boundary.	water, and abr	OBL species, stand	ected because dominated by	oils not coll



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

Project/Site: CHPE	City/County: Whitehall/Washington Sampling Date: 1/6/22
Applicant/Owner: TDI	State: NY Sampling Point: GR-S-15 & 16 Upi
Investigator(s): J. Greaves & C. Scrivner	Section, Township, Range:
Landform (hillside, terrace, etc.): Terrace Loca	al relief (concave, convex, none): <u>None</u> Slope %:
Subregion (LRR or MLRA):         LRR R         Lat:         43-32-06N	Long: <u>73-24-26W</u> Datum: <u>WGS 84</u>
Soil Map Unit Name: OP - Orthents and Psamments	NWI classification: NA
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes X No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrologysignificantly dist	urbed? Are "Normal Circumstances" present? Yes X No
Are Vegetation, Soil, or Hydrologynaturally problem	natic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sa	mpling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes X No Yes No X Yes No X	Is the Sampled Area within a Wetland? Yes No X If yes, optional Wetland Site ID:
Remarks: (Explain alternative procedure Gravel road/embankment adjacent to rai	,	

#### HYDROLOGY

Wetland Hydrology Indica	tors:				Secondary Indicators (min	imum of two required)		
Primary Indicators (minimu	<u>m of one is requir</u>	ed; check all	that apply)		Surface Soil Cracks (B6)			
Surface Water (A1)		Water-Stained Leaves (B9)			Drainage Patterns (B1	10)		
High Water Table (A2)		Aquatic Fauna (B13) Moss Trim Lines (B16)			·)			
Saturation (A3)		Marl Deposits (B15) Dry-Season Water Table (C2)			ble (C2)			
Water Marks (B1)		—— Hydrogen Sulfide Odor (C1)			Crayfish Burrows (C8)			
Sediment Deposits (B2	)	Oxidize	Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imager			Aerial Imagery (C9)		
Drift Deposits (B3)		Presence of Reduced Iron (C4)			Stunted or Stressed P	Stunted or Stressed Plants (D1)		
Algal Mat or Crust (B4)		Recen	t Iron Reduction in Tilled So	oils (C6)	6) Geomorphic Position (D2)			
Iron Deposits (B5)		Thin Muck Surface (C7) Shallow Aquitard (D3)						
Inundation Visible on A	erial Imagery (B7	) Other (	(Explain in Remarks)		Microtopographic Relief (D4)			
Sparsely Vegetated Co	ncave Surface (B	(8)			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):	Wetla	nd Hydrology Present?	Yes No X		
(includes capillary fringe)					, ,			
Describe Recorded Data (s	tream gauge, mo	nitoring well,	aerial photos, previous insp	pections), if	available:			
		-		,				
Remarks:								

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

Sampling Point: -R-S-15 & 16 U

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:4 (A)
3 4				Total Number of Dominant Species Across All Strata: <u> </u>
5 6				Percent of Dominant Species That Are OBL, FACW, or FAC: <u>66.7%</u> (A/B)
7				Prevalence Index worksheet:
		=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15')				OBL species x 1 =
1. Rhus typhina	10	Yes	UPL	FACW species 10 x 2 = 20
2. Rhamnus cathartica	10	Yes	FAC	FAC species 40 x 3 =20
3. Cornus alba	10	Yes	FACW	FACU species <u>5</u> x 4 = <u>20</u>
4				UPL species35x 5 =175
5				Column Totals: 90 (A) 335 (B)
6.				Prevalence Index = B/A = 3.72
7.				Hydrophytic Vegetation Indicators:
	30	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
<u>Herb Stratum</u> (Plot size: 5')				X 2 - Dominance Test is >50%
1. Centaurea stoebe	20	Yes	UPL	3 - Prevalence Index is ≤3.0 <sup>1</sup>
2. Euthamia graminifolia	15	Yes	FAC	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
3. Setaria pumila	15	Yes	FAC	data in Remarks or on a separate sheet)
4. Oenothera biennis	5	No	FACU	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5. Hypericum perforatum	5	No	UPL	
6				<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
7				Definitions of Vegetation Strata:
8.				
9.				<b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
10 11				<b>Sapling/shrub</b> – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
12		=Total Cover		<b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum         (Plot size:30')           1.				<b>Woody vines</b> – All woody vines greater than 3.28 ft in height.
2.				
3.				Hydrophytic
				Vegetation Present? Yes X No
4		=Total Cover		
Remarks: (Include photo numbers here or on a sepa	rate sheet.)			

Depth	cription: (Describe t Matrix			x Featur						
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture		Rema	rks
	·									
<sup>1</sup> Type: C=C	oncentration, D=Depl	etion, RM	I=Reduced Matrix, N	//S=Mas	ked Sand	Grains.	<sup>2</sup> Locatio	on: PL=Pore	e Lining, M=Ma	atrix.
Hydric Soil									blematic Hydr	
Histosol	(A1)		Polyvalue Belo	ow Surfa	ce (S8) (I	_RR R,			0) ( <b>LRR K, L</b> ,	
Histic E	pipedon (A2)		MLRA 149B		. , .			-	Redox (A16) (L	-
	istic (A3)		Thin Dark Surf	, ace (S9	) ( <b>LRR R</b>	MLRA 1				) (LRR K, L, R)
	en Sulfide (A4)		High Chroma					-	w Surface (S8)	
	d Layers (A5)		Loamy Mucky					-	ace (S9) (LRR	
	d Below Dark Surface	e (A11)	Loamy Gleyed			, _,				2) ( <b>LRR K, L, R</b> )
	ark Surface (A12)	()	Depleted Matri		/			-		19) ( <b>MLRA 149B</b>
	/lucky Mineral (S1)		Redox Dark Si		-6)					44A, 145, 149B)
	Gleyed Matrix (S4)		Depleted Dark		-			d Parent Ma		
	Redox (S5)		Redox Depres						)ark Surface (F	22)
	I Matrix (S6)		Marl (F10) (LR		0)			•	in Remarks)	22)
	rface (S7)			ix ix, ∟)			0		in Kenarks)	
<sup>3</sup> Indicators o	f hydronhytic ycaotati	ion and w	otland hydrology m	ust bo p	rocont ur	loce dict	urbod or problem	atic		
	f hydrophytic vegetati	ion and w	eliand hydrology m	ust be pi	resent, ur			auc.		
	Layer (if observed):									
Type:										
Depth (i	nches):						Hydric Soil P	resent?	Yes	NoX
Remarks:										
	en so soils not observ	ed. Howe	ever, surficially obse	rved to	consist of	gravel as	ssociated with th	e railroad.		
			-			-				



Upland G-R-S-15 and G-R-S-16- View facing south

Package 1C

## SITE PHOTOGRAPHS

**Champlain Hudson Power Express** 

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

Project/Site: CHPE		City/County: Whitehall/Washington	Sampling Date: 1/6/22
Applicant/Owner: TDI		State: N	Y Sampling Point: G-R-X-1TTTT Wet
Investigator(s): J. Greaves & C. Scrivner		Section, Township, Range:	
Landform (hillside, terrace, etc.): Depression	Local re	lief (concave, convex, none): <u>Concave</u>	Slope %: 2
Subregion (LRR or MLRA): LRR R	Lat: <u>43-31-49N</u>	Long: <u>73-24-32</u> W	Datum:
Soil Map Unit Name: OP - Orthents and Psamm	ents	NWI classificati	on: PEM1
Are climatic / hydrologic conditions on the site typ	ical for this time of year?	Yes X No (If r	no, explain in Remarks.)
Are Vegetation, Soil, or Hydrolog	significantly disturbe	ed? Are "Normal Circumstances" p	resent? Yes X No
Are Vegetation, Soil, or Hydrolog	naturally problemati	c? (If needed, explain any answer	rs in Remarks.)
SUMMARY OF FINDINGS – Attach sit	e map showing samp	ling point locations, transects,	important features, etc.
Hydrophytic Vegetation Present? Ye	s X No	Is the Sampled Area	
Hydric Soil Present? Ye	s X No	within a Wetland? Yes X	No
Wetland Hydrology Present? Ye	s <u>X</u> No	If yes, optional Wetland Site ID:	
Remarks: (Explain alternative procedures here common reed marsh.	or in a separate report.)		

#### HYDROLOGY

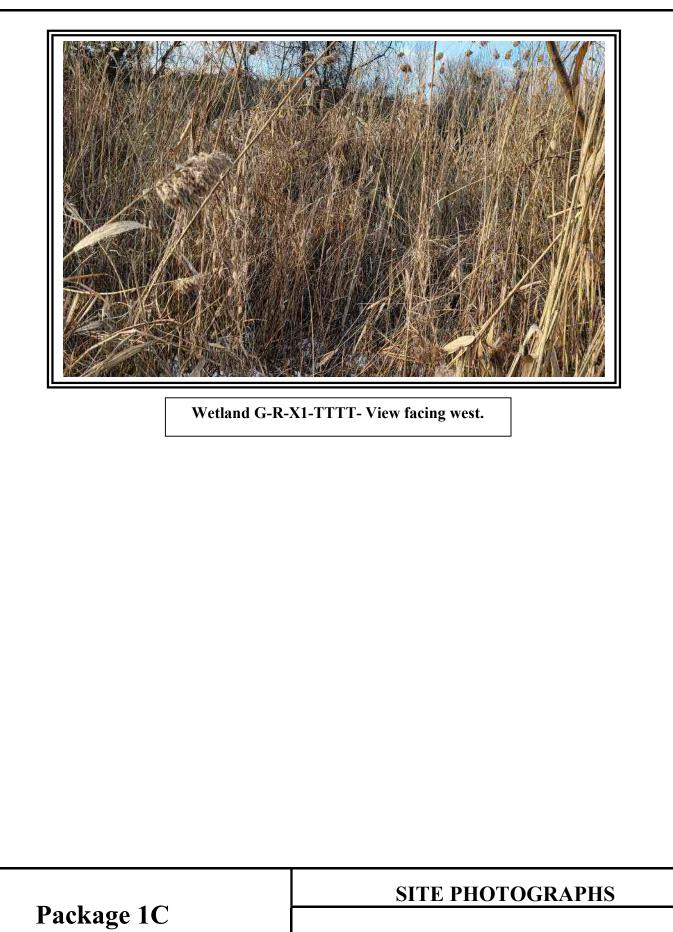
Wetland Hydrology Indicators:			Secondary Indicators (minimum of two required)		
Primary Indicators (minimum of one is require		Surface Soil Cracks (B6)			
X Surface Water (A1)	Drainage Patterns (B10)				
X High Water Table (A2)	Moss Trim Lines (B16)				
X Saturation (A3)	Marl Deposits (B15)	Dry-Season Water Table (C2)			
Water Marks (B1)	Hydrogen Sulfide Odor (C1)		Crayfish Burrows (C8)		
Sediment Deposits (B2)	Oxidized Rhizospheres on Living Ro	oots (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 Soil	s (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 (B	8)		X FAC-Neutral Test (D5)		
Field Observations:					
Surface Water Present? Yes X	No Depth (inches): 5				
Water Table Present? Yes X	No Depth (inches): 0				
			Wetland Hydrology Present? Yes X No		
Saturation Present? Yes X		Wetlan	d Hydrology Present? Yes X No		
		Wetlan	d Hydrology Present? Yes X No		
Saturation Present? Yes X	No Depth (inches):				
Saturation Present?     Yes     X       (includes capillary fringe)	No Depth (inches):				
Saturation Present? Yes X (includes capillary fringe) Describe Recorded Data (stream gauge, mor	No Depth (inches):				
Saturation Present?     Yes     X       (includes capillary fringe)	No Depth (inches):				
Saturation Present? Yes X (includes capillary fringe) Describe Recorded Data (stream gauge, mor	No Depth (inches):				
Saturation Present? Yes X (includes capillary fringe) Describe Recorded Data (stream gauge, mor	No Depth (inches):				
Saturation Present? Yes X (includes capillary fringe) Describe Recorded Data (stream gauge, mor	No Depth (inches):				
Saturation Present? Yes X (includes capillary fringe) Describe Recorded Data (stream gauge, mor	No Depth (inches):				
Saturation Present? Yes X (includes capillary fringe) Describe Recorded Data (stream gauge, mor	No Depth (inches):				
Saturation Present? Yes X (includes capillary fringe) Describe Recorded Data (stream gauge, mor	No Depth (inches):				
Saturation Present? Yes X (includes capillary fringe) Describe Recorded Data (stream gauge, mor	No Depth (inches):				
Saturation Present? Yes X (includes capillary fringe) Describe Recorded Data (stream gauge, mor	No Depth (inches):				

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

Sampling Point: -R-X-1TTTT W

Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1				Number of Dominant Species
2				That Are OBL, FACW, or FAC:(A)
3				Total Number of Dominant
4				Species Across All Strata:(B)
5 6				Percent of Dominant Species That Are OBL, FACW, or FAC:100.0% (A/B)
7.				Prevalence Index worksheet:
		=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15')				OBL species <u>5</u> x 1 = <u>5</u>
1. Cornus alba	2	No	FACW	FACW species 92 x 2 = 184
2				FAC species x 3 =
3				FACU species x 4 =
4				UPL species x 5 =
5				Column Totals: 97 (A) 189 (B)
6				Prevalence Index = B/A =1.95
7				Hydrophytic Vegetation Indicators:
	2	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size:5')				X 2 - Dominance Test is >50%
1. Phragmites australis	90	Yes	FACW	X 3 - Prevalence Index is $\leq 3.0^1$
2. Lythrum salicaria	5	No	OBL	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
3				data in Remarks or on a separate sheet)
4				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
6.				be present, unless disturbed or problematic.
7.				Definitions of Vegetation Strata:
8				<b>Tree</b> – 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
	95	=Total Cover		of size, and woody plants less than 3.28 ft tall.
<u>Woody Vine Stratum</u> (Plot size: 0)				Woody vines – All woody vines greater than 3.28 ft in
1				height.
2				Hydrophytic
3				Vegetation
4				Present? Yes <u>X</u> No
		=Total Cover		
Remarks: (Include photo numbers here or on a sepa	rate sheet.)			

(inches)	Matrix		Redox	Featur				
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
	· ·	·						
	· ·	·						
	· ·	·						
	·	·						
	· ·	·						
	· ·	·						
<sup>1</sup> Type: C=Coi	ncentration, D=Deplet	tion, RM	=Reduced Matrix, M	S=Mas	ked Sand	Grains.	<sup>2</sup> Location: PL=Po	re Lining, M=Matrix.
Hydric Soil Ir	ndicators:						Indicators for Pro	oblematic Hydric Soils <sup>3</sup> :
Histosol (	(A1)		Polyvalue Below	<i>w</i> Surfa	ce (S8) ( <b>L</b>	.RR R,	2 cm Muck (A	10) ( <b>LRR K, L, MLRA 149B</b> )
Histic Epi	ipedon (A2)		MLRA 149B)				Coast Prairie	Redox (A16) ( <b>LRR K, L, R</b> )
Black His			Thin Dark Surfa	ace (S9	) ( <b>LRR R</b> ,	MLRA 149		Peat or Peat (S3) (LRR K, L, R)
	n Sulfide (A4)		High Chroma S					ow Surface (S8) (LRR K, L)
	Layers (A5)		Loamy Mucky N					face (S9) ( <b>LRR K, L</b> )
	Below Dark Surface (	(A11)	Loamy Gleyed I			, ,		se Masses (F12) (LRR K, L, R)
	rk Surface (A12)		Depleted Matrix		,			odplain Soils (F19) ( <b>MLRA 149E</b>
	ucky Mineral (S1)		Redox Dark Su		-6)			(TA6) (MLRA 144A, 145, 149B
	eyed Matrix (S4)		Depleted Dark S		-		Red Parent M	
Sandy Re			Redox Depress					Dark Surface (F22)
	Matrix (S6)		Marl (F10) ( <b>LRF</b>	•	-)		Other (Explain	
Dark Surf				, =/				, in residuely
<sup>3</sup> Indicators of	hydrophytic vegetatio	n and w	etland hydrology mu	st he ni	resent un	less distur	ned or problematic	
			stand nydrology ma					
Restrictive La								
Restrictive La							Hydric Soil Present?	Yes X No
Restrictive La	ches):						-	
Restrictive La Type: Depth (inc							-	
Restrictive La Type: Depth (ind Remarks:	ches):			ator of F	- ACW and	the wetla	nd boundary is abrupt.	
Restrictive La Type: Depth (ind Remarks:	ches):			ator of F	ACW and	the wetla		
Restrictive La Type: Depth (ind Remarks:	ches):			ator of F	ACW and	the wetla		
Restrictive La Type: Depth (ind Remarks:	ches):			ator of F	FACW and	d the wetlar		
Restrictive La Type: Depth (ind Remarks:	ches):			ator of F	FACW and	d the wetla		
Restrictive La Type: Depth (ind Remarks:	ches):			ator of F	FACW and	d the wetla		
Restrictive La Type: Depth (ind Remarks:	ches):			ator of F	FACW and	the wetlan		
Restrictive La Type: Depth (ind Remarks:	ches):			ator of F	FACW and	the wetlan		
Restrictive La Type: Depth (ind Remarks:	ches):			ator of F	FACW and	d the wetlar		
Restrictive La Type: Depth (ind Remarks:	ches):			ator of F	FACW and	the wetlar		
Restrictive La Type: Depth (ind Remarks:	ches):			ator of F	FACW and	the wetlar		
Restrictive La Type: Depth (ind Remarks:	ches):			ator of F	FACW and	the wetlar		
Restrictive La Type: Depth (ind Remarks:	ches):			ator of F	FACW and	the wetla		



Champlain Hudson Power Express

Project/Site: CHPE	City/County: Whitehall/Washington Sampling Date: 1/6/22
Applicant/Owner: TDI	State: NY Sampling Point: GRX-1TTT Upi
Investigator(s): J. Greaves & C. Scrivner	Section, Township, Range:
Landform (hillside, terrace, etc.): Terrace Local	relief (concave, convex, none): None Slope %:
Subregion (LRR or MLRA): LRR R Lat: 43-31-49N	Long: <u>73-24-32W</u> Datum: <u>WGS 84</u>
Soil Map Unit Name: OP - Orthents and Psamments	NWI classification:
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	bed? Are "Normal Circumstances" present? Yes X No
Are Vegetation, Soil, or Hydrologynaturally problems	atic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sam	pling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes	No X	Is the Sampled Area within a Wetland? Yes No X If yes, optional Wetland Site ID:
Hydric Soil Present?	Yes	No X	
Wetland Hydrology Present?	Yes	No X	
Remarks: (Explain alternative procedu Successional old field.	ures here or in a s	separate report.)	

Wetland Hydrology Indica	tors:				Secondary Indicators (mir	nimum of two required)		
Primary Indicators (minimur	<u>n of one is requir</u>	red; check all	that apply)		Surface Soil Cracks (	B6)		
Surface Water (A1)		Water-	Stained Leaves (B9)		Drainage Patterns (B	10)		
High Water Table (A2)		Aquati	c Fauna (B13)		Moss Trim Lines (B16	3)		
Saturation (A3)		Marl D	eposits (B15)		Dry-Season Water Ta	able (C2)		
Water Marks (B1)		Hydrog	gen Sulfide Odor (C1)		Crayfish Burrows (C8	)		
Sediment Deposits (B2)	)	Oxidize	ed Rhizospheres on Living F	Roots (C3)	Saturation Visible on	Saturation Visible on Aerial Imagery (C9)		
Drift Deposits (B3)		Preser	nce of Reduced Iron (C4)		Stunted or Stressed F	Plants (D1)		
Algal Mat or Crust (B4)		Recen	t Iron Reduction in Tilled Sol	Geomorphic Position	(D2)			
Iron Deposits (B5)		Thin M	uck Surface (C7)		Shallow Aquitard (D3)	)		
Inundation Visible on A	ərial Imagery (B7	Microtopographic Rel	ief (D4)					
Sparsely Vegetated Col	ncave Surface (E	38)			FAC-Neutral Test (D5	5)		
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):	Wetlar	nd Hydrology Present?	Yes No X		
(includes capillary fringe)								
Describe Recorded Data (st	ream gauge, mo	nitoring well,	aerial photos, previous insp	ections), if	available:			
Remarks:								

Sampling Point: 3-R-X-1TTTT U

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.           6.				Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)
7				Prevalence Index worksheet:
		=Total Cover		Total % Cover of:Multiply by:
Sapling/Shrub Stratum (Plot size: 15' )				OBL species x 1 =
1. Rhus typhina	5	Yes	UPL	FACW species <u>5</u> x 2 = <u>10</u>
2				FAC species <u>5</u> x 3 = <u>15</u>
3				FACU species x 4 = 80
4				UPL species X 5 = 375
5				Column Totals: 105 (A) 480 (B)
6				Prevalence Index = B/A =4.57
7.				Hydrophytic Vegetation Indicators:
	5	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5')				2 - Dominance Test is >50%
1. Hypericum perforatum	60	Yes	UPL	3 - Prevalence Index is ≤3.0 <sup>1</sup>
2. Solidago canadensis	10	No	FACU	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
3. Oenothera biennis	5	No	FACU	data in Remarks or on a separate sheet)
	5	No	UPL	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
4. Centaurea stoebe				
5. Verbascum thapsus	5	No	UPL	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
6. Euthamia graminifolia	5	No	FAC	be present, unless disturbed or problematic.
7. <u>Alliaria petiolata</u>	5	No	FACU	Definitions of Vegetation Strata:
8. <i>Phragmites australis</i>	5	No	FACW	<b>Tree</b> – 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
	100	=Total Cover		of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size: 30')				
1,				<b>Woody vines</b> – All woody vines greater than 3.28 ft in height.
2.				
				Hydrophytic
				Vegetation Present? Yes No X
4				Present? Yes <u>No X</u>
		=Total Cover		
Remarks: (Include photo numbers here or on a separation of the sep	rate sheet.)			

Profile Desc	ription: (Describe	to the dep	oth needed to doc	ument t	he indica	tor or co	onfirm the absence o	f indicators.)	
Depth	Matrix			x Featu					
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Rem	narks
<u> </u>					·				
					·				
					·				
———									
<sup>1</sup> Type: C=Co	oncentration, D=Dep	letion, RM	=Reduced Matrix, N	//S=Mas	ked Sand	Grains.	<sup>2</sup> Location: F	L=Pore Lining, M=N	Matrix.
Hydric Soil	Indicators:							or Problematic Hy	
Histosol			Polyvalue Belo	ow Surfa	ace (S8) (I	RR R,		uck (A10) ( <b>LRR K, L</b>	
	pipedon (A2)		MLRA 1498		. , .			rairie Redox (A16) (	
	stic (A3)		Thin Dark Surf		) (LRR R	MLRA 1		ucky Peat or Peat (S	
	n Sulfide (A4)		High Chroma					ie Below Surface (S	
	d Layers (A5)		Loamy Mucky	-				rk Surface (S9) ( <b>LR</b>	
	d Below Dark Surface	e (A11)	Loamy Gleyed			, _/		nganese Masses (F	
	ark Surface (A12)	5 (7117)	Depleted Matr		(• _)			nt Floodplain Soils (	
	lucky Mineral (S1)		Redox Dark S		F6)			podic (TA6) ( <b>MLRA</b>	
	Gleyed Matrix (S4)		Depleted Dark		-			ent Material (F21)	(1447, 140, 1400)
	ledox (S5)		Redox Depres					allow Dark Surface	(E22)
	Matrix (S6)				-				
			Marl (F10) ( <b>LF</b>	(K K, L)				Explain in Remarks)	
Dark Su	rface (S7)								
3 malia atawa a	f h					lass dist			
			eliand hydrology m	ust be p	resent, ur	liess dist	urbed or problematic.		
	Layer (if observed):								
Туре:									
Depth (ii	nches):						Hydric Soil Prese	nt? Yes	<u>No X</u>
Remarks:									
	en - could not docum	ent soils, t	out area generally o	onsiste	d of distur	bed grav	elly soils.		
						•			
1									
1									



# Upland G-R-X1-TTTT- View facing southeast.

# Package 1C

# SITE PHOTOGRAPHS

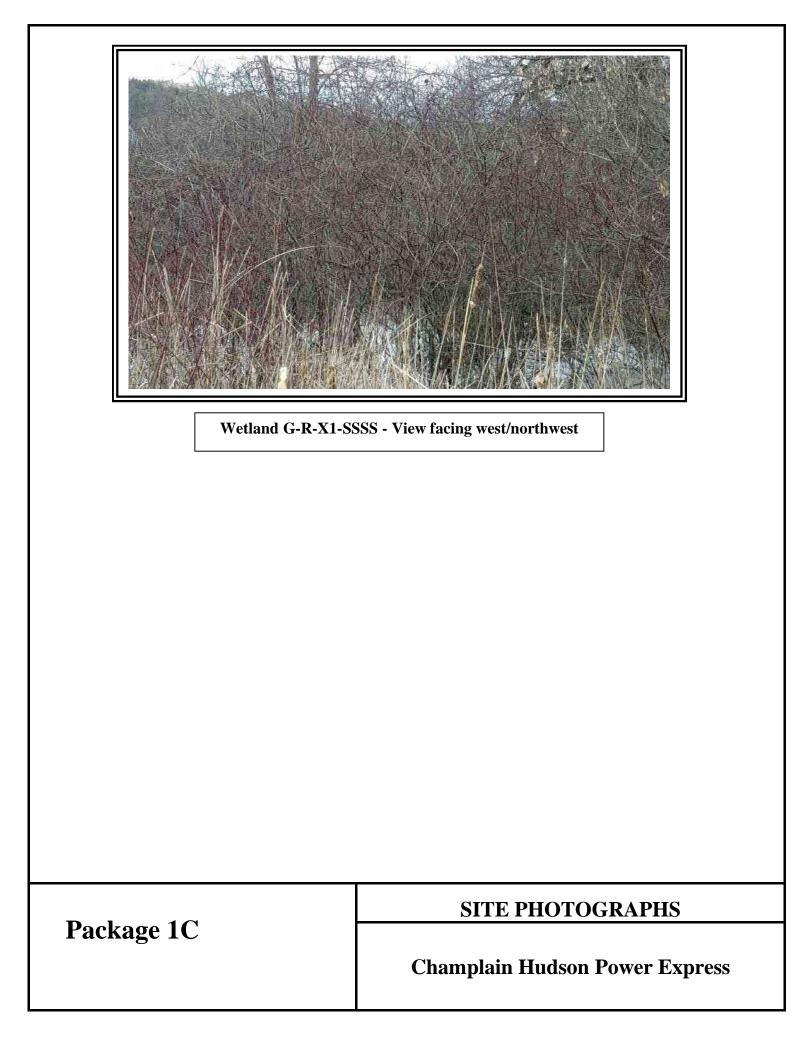
Project/Site: CHPE	City/County: Whitehall / Washington Sampling Date: 1/6/22					
Applicant/Owner: TDI	State: NY Sampling Point: G-R-X-15555 Wet					
Investigator(s): J. Greaves & C. Scrivner	Section, Township, Range:					
Landform (hillside, terrace, etc.): Depression	Local relief (concave, convex, none): Concave Slope %: 3					
Subregion (LRR or MLRA): LRR R	Lat:         43-31-47N         Long:         73-24-32W         Datum:         WGS 84					
Soil Map Unit Name: OP - Orthents and Psammer	ntsNWI classification: PSS1					
Are climatic / hydrologic conditions on the site typic	al 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, 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.)					
Shrub swamp.						

Wetland Hydrology Indicat	ors:						Secondary Indicators (min	imum of two required)
Primary Indicators (minimum	<u>ı of one</u>	e is rec	quired; check	all that apply)			Surface Soil Cracks (I	B6)
X Surface Water (A1)			Wate	er-Stained Leaves (B	9)		Drainage Patterns (B1	10)
X High Water Table (A2)			Aqua	atic Fauna (B13)			Moss Trim Lines (B16	5)
X Saturation (A3)			Marl	Deposits (B15)			Dry-Season Water Ta	ble (C2)
Water Marks (B1)			Hydr	ogen Sulfide Odor (C	:1)		Crayfish Burrows (C8)	)
Sediment Deposits (B2)			Oxid	ized Rhizospheres or	n Living Ro	oots (C3)	Saturation Visible on A	Aerial Imagery (C9)
Drift Deposits (B3)			Pres	ence of Reduced Iror	n (C4)		Stunted or Stressed F	Plants (D1)
Algal Mat or Crust (B4)			 Rece	ent Iron Reduction in	Tilled Soil:	s (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 Reli	ef (D4)	
X Sparsely Vegetated Cor	icave S	Surface	e (B8)				X FAC-Neutral Test (D5	)
Field Observations:								
Surface Water Present?	Yes	х	No	Depth (inches):	3			
Water Table Present?	Yes -	Х	No	Depth (inches):	0			
Saturation Present?	Yes	Х	No	Depth (inches):	0	Wetlan	d Hydrology Present?	Yes X No
(includes capillary fringe)								
Describe Recorded Data (str	ream g	auge,	monitoring we	ll, aerial photos, prev	ious inspe	ections), if a	available:	
Remarks:								

Sampling Point: -R-X-1SSSS W

Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
Fraxinus pennsylvanica  2.	5	Yes	FACW	Number of Dominant Species That Are OBL, FACW, or FAC:2 (A)
3				Total Number of Dominant Species Across All Strata: 2 (B)
5.       6.				Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
7.				Prevalence Index worksheet:
		=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15')				OBL species         0         x 1 =         0
1. Cornus alba	90	Yes	FACW	FACW species 95 x 2 = 190
2.				FAC species 0 x 3 = 0
3.				FACU species 0 x 4 = 0
4.				UPL species 0 x 5 = 0
5.				Column Totals: 95 (A) 190 (B)
6.				Prevalence Index = B/A = 2.00
7.				Hydrophytic Vegetation Indicators:
	90	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
<u>Herb Stratum</u> (Plot size: 5')				X 2 - Dominance Test is >50%
1				X 3 - Prevalence Index is ≤3.0 <sup>1</sup>
2.				4 - Morphological Adaptations <sup>1</sup> (Provide supporting
3.				data in Remarks or on a separate sheet)
4.				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5.				
6.				<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
7.				Definitions of Vegetation Strata:
8 9.				<b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
10.				
11.				<b>Sapling/shrub</b> – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
12		=Total Cover		<b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size: 30')				
1,				Woody vines – All woody vines greater than 3.28 ft in height.
2				Li dranku tia
3				Hydrophytic Vegetation
4				Present? Yes X No
		=Total Cover		
Remarks: (Include photo numbers here or on a sepa	arate sheet.)			

(inches)       Color (moist)       %       Color (moist)       %       Type <sup>1</sup> Loc <sup>2</sup> Texture       Remarks	Depth	Matrix		Redox	Featur				
Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, Listic Epipedon (A2)       MLRA 149B)         Histic Epipedon (A2)       MLRA 149B)       Coast Prairie Redox (A16) (LRR K, L, R)         Black Histic (A3)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       5 cm Mucky Peat or Peat (S3) (LRR K, L, I         Hydrogen Sulfide (A4)       High Chroma Sands (S11) (LRR K, L)       Polyvalue Below Surface (S8) (LRR K, L)         Stratified Layers (A5)       Loamy Mucky Mineral (F1) (LRR K, L)       Thin Dark Surface (S9) (LRR K, L)         Depleted Below Dark Surface (A11)       Loamy Gleyed Matrix (F2)       Iron-Manganese Masses (F12) (LRR K, L, C)         Thick Dark Surface (A12)       Depleted Matrix (F3)       Piedmont Floodplain Soils (F19) (MLRA 144         Sandy Mucky Mineral (S1)       Redox Dark Surface (F7)       Red Parent Material (F21)         Sandy Redox (S5)       Redox Depressions (F8)       Very Shallow Dark Surface (F22)         Stripped Matrix (S6)       Marl (F10) (LRR K, L)       Other (Explain in Remarks) <sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.       Yes X       No         Remarks:       Hydric Soil Present?       Yes X       No	(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, Listic Epipedon (A2)       MLRA 149B)         Histic Epipedon (A2)       MLRA 149B)       Coast Prairie Redox (A16) (LRR K, L, R)         Black Histic (A3)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       5 cm Mucky Peat or Peat (S3) (LRR K, L, I         Hydrogen Sulfide (A4)       High Chroma Sands (S11) (LRR K, L)       Polyvalue Below Surface (S8) (LRR K, L)         Stratified Layers (A5)       Loamy Mucky Mineral (F1) (LRR K, L)       Thin Dark Surface (S9) (LRR K, L)         Depleted Below Dark Surface (A11)       Loamy Gleyed Matrix (F2)       Iron-Manganese Masses (F12) (LRR K, L, C)         Thick Dark Surface (A12)       Depleted Matrix (F3)       Piedmont Floodplain Soils (F19) (MLRA 144         Sandy Mucky Mineral (S1)       Redox Dark Surface (F7)       Red Parent Material (F21)         Sandy Redox (S5)       Redox Depressions (F8)       Very Shallow Dark Surface (F22)         Stripped Matrix (S6)       Marl (F10) (LRR K, L)       Other (Explain in Remarks) <sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.       Yes X       No         Remarks:       Hydric Soil Present?       Yes X       No									
Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, Histic Epipedon (A2)       MLRA 149B)         Black Histic (A3)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       Coast Prairie Redox (A16) (LRR K, L, R)         Hydrogen Sulfide (A4)       High Chroma Sands (S11) (LRR K, L)       Polyvalue Below Surface (S8) (LRR K, L)         Stratified Layers (A5)       Loamy Mucky Mineral (F1) (LRR K, L)       Thin Dark Surface (A11)         Depleted Below Dark Surface (A12)       Depleted Matrix (F2)       Iron-Manganese Masses (F12) (LRR K, L, L)         Thick Dark Surface (A12)       Depleted Matrix (F3)       Piedmont Floodplain Soils (F19) (MLRA 144, 145, 145)         Sandy Mucky Mineral (S1)       Redox Dark Surface (F7)       Red Parent Material (F21)         Sandy Redox (S5)       Marl (F10) (LRR K, L)       Other (Explain in Remarks)         Dark Surface (S7)       Marl (F10) (LRR K, L)       Other (Explain in Remarks)         Sindicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.       Yes_X       No_         Remarks:       Hydric Soil Present?       Yes_X       No_		·							
Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R,       2 cm Muck (A10) (LRR K, L, MLRA 149B)         Histic Epipedon (A2)       MLRA 149B)       Coast Prairie Redox (A16) (LRR K, L, R)         Black Histic (A3)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       5 cm Mucky Peat or Peat (S3) (LRR K, L, I         Hydrogen Sulfide (A4)       High Chroma Sands (S11) (LRR K, L)       Polyvalue Below Surface (S8) (LRR K, L)         Stratified Layers (A5)       Loamy Mucky Mineral (F1) (LRR K, L)       Thin Dark Surface (S9) (LRR K, L)         Depleted Below Dark Surface (A11)       Loamy Gleyed Matrix (F2)       Iron-Manganese Masses (F12) (LRR K, L, L)         Thick Dark Surface (A12)       Depleted Matrix (F3)       Piedmont Floodplain Soils (F19) (MLRA 144         Sandy Mucky Mineral (S1)       Redox Dark Surface (F7)       Red Parent Material (F21)         Sandy Redox (S5)       Marl (F10) (LRR K, L)       Other (Explain in Remarks)         Dark Surface (S7)       Marl (F10) (LRR K, L)       Other (Explain in Remarks)         3 <sup>1</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.       Yes X       No         Remarks:       Hydric Soil Present?       Yes X       No									
Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R,       2 cm Muck (A10) (LRR K, L, MLRA 149B)         Histic Epipedon (A2)       MLRA 149B)       Coast Prairie Redox (A16) (LRR K, L, R)         Black Histic (A3)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       5 cm Mucky Peat or Peat (S3) (LRR K, L, I         Hydrogen Sulfide (A4)       High Chroma Sands (S11) (LRR K, L)       Polyvalue Below Surface (S8) (LRR K, L)         Stratified Layers (A5)       Loamy Mucky Mineral (F1) (LRR K, L)       Thin Dark Surface (S9) (LRR K, L)         Depleted Below Dark Surface (A11)       Loamy Gleyed Matrix (F2)       Iron-Manganese Masses (F12) (LRR K, L, L)         Thick Dark Surface (A12)       Depleted Matrix (F3)       Piedmont Floodplain Soils (F19) (MLRA 144         Sandy Mucky Mineral (S1)       Redox Dark Surface (F7)       Red Parent Material (F21)         Sandy Redox (S5)       Marl (F10) (LRR K, L)       Other (Explain in Remarks)         Dark Surface (S7)       Marl (F10) (LRR K, L)       Other (Explain in Remarks)         3 <sup>1</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.       Yes X       No         Remarks:       Hydric Soil Present?       Yes X       No									
Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R,       2 cm Muck (A10) (LRR K, L, MLRA 149B)         Histic Epipedon (A2)       MLRA 149B)       Coast Prairie Redox (A16) (LRR K, L, R)         Black Histic (A3)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       5 cm Mucky Peat or Peat (S3) (LRR K, L, I         Hydrogen Sulfide (A4)       High Chroma Sands (S11) (LRR K, L)       Polyvalue Below Surface (S8) (LRR K, L)         Stratified Layers (A5)       Loamy Mucky Mineral (F1) (LRR K, L)       Thin Dark Surface (S9) (LRR K, L)         Depleted Below Dark Surface (A11)       Loamy Gleyed Matrix (F2)       Iron-Manganese Masses (F12) (LRR K, L, L)         Thick Dark Surface (A12)       Depleted Matrix (F3)       Piedmont Floodplain Soils (F19) (MLRA 144         Sandy Mucky Mineral (S1)       Redox Dark Surface (F7)       Red Parent Material (F21)         Sandy Redox (S5)       Marl (F10) (LRR K, L)       Other (Explain in Remarks)         Dark Surface (S7)       Stripped Matrix (S6)       Marl (F10) (LRR K, L)       Other (Explain in Remarks) <sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.       Yes X       No         Remarks:       Hydric Soil Present?       Yes X       No									
Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, Histic Epipedon (A2)       MLRA 149B)         Black Histic (A3)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       Coast Prairie Redox (A16) (LRR K, L, R)         Hydrogen Sulfide (A4)       High Chroma Sands (S11) (LRR K, L)       Polyvalue Below Surface (S8) (LRR K, L)         Stratified Layers (A5)       Loamy Mucky Mineral (F1) (LRR K, L)       Thin Dark Surface (A11)         Depleted Below Dark Surface (A12)       Depleted Matrix (F2)       Iron-Manganese Masses (F12) (LRR K, L, L)         Thick Dark Surface (A12)       Depleted Matrix (F3)       Piedmont Floodplain Soils (F19) (MLRA 144, 145, 145)         Sandy Mucky Mineral (S1)       Redox Dark Surface (F7)       Red Parent Material (F21)         Sandy Redox (S5)       Marl (F10) (LRR K, L)       Other (Explain in Remarks)         Dark Surface (S7)       Marl (F10) (LRR K, L)       Other (Explain in Remarks)         Sindicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.       Yes_X       No_         Remarks:       Hydric Soil Present?       Yes_X       No_	·	,							
Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, Histic Epipedon (A2)       MLRA 149B)         Black Histic (A3)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       Coast Prairie Redox (A16) (LRR K, L, R)         Hydrogen Sulfide (A4)       High Chroma Sands (S11) (LRR K, L)       Polyvalue Below Surface (S8) (LRR K, L)         Stratified Layers (A5)       Loamy Mucky Mineral (F1) (LRR K, L)       Thin Dark Surface (A11)         Depleted Below Dark Surface (A12)       Depleted Matrix (F2)       Iron-Manganese Masses (F12) (LRR K, L, L)         Thick Dark Surface (A12)       Depleted Matrix (F3)       Piedmont Floodplain Soils (F19) (MLRA 144, 145, 145)         Sandy Mucky Mineral (S1)       Redox Dark Surface (F7)       Red Parent Material (F21)         Sandy Redox (S5)       Marl (F10) (LRR K, L)       Other (Explain in Remarks)         Dark Surface (S7)       Marl (F10) (LRR K, L)       Other (Explain in Remarks)         Sindicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.       Yes_X       No_         Remarks:       Hydric Soil Present?       Yes_X       No_									
Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, Histic Epipedon (A2)       MLRA 149B)         Black Histic (A3)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       Coast Prairie Redox (A16) (LRR K, L, R)         Hydrogen Sulfide (A4)       High Chroma Sands (S11) (LRR K, L)       Polyvalue Below Surface (S8) (LRR K, L)         Stratified Layers (A5)       Loamy Mucky Mineral (F1) (LRR K, L)       Thin Dark Surface (A11)         Depleted Below Dark Surface (A12)       Depleted Matrix (F2)       Iron-Manganese Masses (F12) (LRR K, L, L)         Thick Dark Surface (A12)       Depleted Matrix (F3)       Piedmont Floodplain Soils (F19) (MLRA 144, 145, 145)         Sandy Mucky Mineral (S1)       Redox Dark Surface (F7)       Red Parent Material (F21)         Sandy Redox (S5)       Marl (F10) (LRR K, L)       Other (Explain in Remarks)         Dark Surface (S7)       Marl (F10) (LRR K, L)       Other (Explain in Remarks)         Sindicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.       Yes_X       No_         Remarks:       Hydric Soil Present?       Yes_X       No_									
Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R,       2 cm Muck (A10) (LRR K, L, MLRA 149B)         Histic Epipedon (A2)       MLRA 149B)       Coast Prairie Redox (A16) (LRR K, L, R)         Black Histic (A3)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       5 cm Mucky Peat or Peat (S3) (LRR K, L, I         Hydrogen Sulfide (A4)       High Chroma Sands (S11) (LRR K, L)       Polyvalue Below Surface (S8) (LRR K, L)         Stratified Layers (A5)       Loamy Mucky Mineral (F1) (LRR K, L)       Thin Dark Surface (S9) (LRR K, L)         Depleted Below Dark Surface (A11)       Loamy Gleyed Matrix (F2)       Iron-Manganese Masses (F12) (LRR K, L, L)         Thick Dark Surface (A12)       Depleted Matrix (F3)       Piedmont Floodplain Soils (F19) (MLRA 144         Sandy Mucky Mineral (S1)       Redox Dark Surface (F7)       Red Parent Material (F21)         Sandy Redox (S5)       Marl (F10) (LRR K, L)       Other (Explain in Remarks)         Dark Surface (S7)       Stripped Matrix (S6)       Marl (F10) (LRR K, L)       Other (Explain in Remarks) <sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.       Yes X       No         Remarks:       Hydric Soil Present?       Yes X       No									
Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R,       2 cm Muck (A10) (LRR K, L, MLRA 149B)         Histic Epipedon (A2)       MLRA 149B)       Coast Prairie Redox (A16) (LRR K, L, R)         Black Histic (A3)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       5 cm Mucky Peat or Peat (S3) (LRR K, L, I         Hydrogen Sulfide (A4)       High Chroma Sands (S11) (LRR K, L)       Polyvalue Below Surface (S8) (LRR K, L)         Stratified Layers (A5)       Loamy Mucky Mineral (F1) (LRR K, L)       Thin Dark Surface (S9) (LRR K, L)         Depleted Below Dark Surface (A11)       Loamy Gleyed Matrix (F2)       Iron-Manganese Masses (F12) (LRR K, L, L)         Thick Dark Surface (A12)       Depleted Matrix (F3)       Piedmont Floodplain Soils (F19) (MLRA 144         Sandy Mucky Mineral (S1)       Redox Dark Surface (F7)       Red Parent Material (F21)         Sandy Redox (S5)       Marl (F10) (LRR K, L)       Other (Explain in Remarks)         Dark Surface (S7)       Stripped Matrix (S6)       Marl (F10) (LRR K, L)       Other (Explain in Remarks) <sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.       Yes X       No         Remarks:       Hydric Soil Present?       Yes X       No									
Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R,       2 cm Muck (A10) (LRR K, L, MLRA 149B)         Histic Epipedon (A2)       MLRA 149B)       Coast Prairie Redox (A16) (LRR K, L, R)         Black Histic (A3)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       5 cm Mucky Peat or Peat (S3) (LRR K, L, I         Hydrogen Sulfide (A4)       High Chroma Sands (S11) (LRR K, L)       Polyvalue Below Surface (S8) (LRR K, L)         Stratified Layers (A5)       Loamy Mucky Mineral (F1) (LRR K, L)       Thin Dark Surface (S9) (LRR K, L)         Depleted Below Dark Surface (A11)       Loamy Gleyed Matrix (F2)       Iron-Manganese Masses (F12) (LRR K, L, L)         Thick Dark Surface (A12)       Depleted Matrix (F3)       Piedmont Floodplain Soils (F19) (MLRA 144         Sandy Mucky Mineral (S1)       Redox Dark Surface (F7)       Red Parent Material (F21)         Sandy Redox (S5)       Marl (F10) (LRR K, L)       Other (Explain in Remarks)         Dark Surface (S7)       Stripped Matrix (S6)       Marl (F10) (LRR K, L)       Other (Explain in Remarks) <sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.       Yes X       No         Remarks:       Hydric Soil Present?       Yes X       No									
Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R,       2 cm Muck (A10) (LRR K, L, MLRA 149B)         Histic Epipedon (A2)       MLRA 149B)       Coast Prairie Redox (A16) (LRR K, L, R)         Black Histic (A3)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       5 cm Mucky Peat or Peat (S3) (LRR K, L, I         Hydrogen Sulfide (A4)       High Chroma Sands (S11) (LRR K, L)       Polyvalue Below Surface (S8) (LRR K, L)         Stratified Layers (A5)       Loamy Mucky Mineral (F1) (LRR K, L)       Thin Dark Surface (S9) (LRR K, L)         Depleted Below Dark Surface (A11)       Loamy Gleyed Matrix (F2)       Iron-Manganese Masses (F12) (LRR K, L, L)         Thick Dark Surface (A12)       Depleted Matrix (F3)       Piedmont Floodplain Soils (F19) (MLRA 144         Sandy Mucky Mineral (S1)       Redox Dark Surface (F7)       Red Parent Material (F21)         Sandy Redox (S5)       Marl (F10) (LRR K, L)       Other (Explain in Remarks)         Dark Surface (S7)       Marl (F10) (LRR K, L)       Other (Explain in Remarks)         3 <sup>1</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.       Yes X       No         Remarks:       Hydric Soil Present?       Yes X       No									
Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R,       2 cm Muck (A10) (LRR K, L, MLRA 149B)         Histic Epipedon (A2)       MLRA 149B)       Coast Prairie Redox (A16) (LRR K, L, R)         Black Histic (A3)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       5 cm Mucky Peat or Peat (S3) (LRR K, L, I         Hydrogen Sulfide (A4)       High Chroma Sands (S11) (LRR K, L)       Polyvalue Below Surface (S8) (LRR K, L)         Stratified Layers (A5)       Loamy Mucky Mineral (F1) (LRR K, L)       Thin Dark Surface (S9) (LRR K, L)         Depleted Below Dark Surface (A11)       Loamy Gleyed Matrix (F2)       Iron-Manganese Masses (F12) (LRR K, L, L)         Thick Dark Surface (A12)       Depleted Matrix (F3)       Piedmont Floodplain Soils (F19) (MLRA 144         Sandy Mucky Mineral (S1)       Redox Dark Surface (F7)       Red Parent Material (F21)         Sandy Redox (S5)       Marl (F10) (LRR K, L)       Other (Explain in Remarks)         Dark Surface (S7)       Marl (F10) (LRR K, L)       Other (Explain in Remarks)         Stripped Matrix (S6)       Marl (F10) (LRR K, L)       Other (Explain in Remarks)         Depth (inches):       Hydric Soil Present?       Yes X       No         Remarks:       Hydric Soil Present?       Yes X       No									
Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R,       2 cm Muck (A10) (LRR K, L, MLRA 149B)         Histic Epipedon (A2)       MLRA 149B)       Coast Prairie Redox (A16) (LRR K, L, R)         Black Histic (A3)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       5 cm Mucky Peat or Peat (S3) (LRR K, L, I         Hydrogen Sulfide (A4)       High Chroma Sands (S11) (LRR K, L)       Polyvalue Below Surface (S8) (LRR K, L)         Stratified Layers (A5)       Loamy Mucky Mineral (F1) (LRR K, L)       Thin Dark Surface (S9) (LRR K, L)         Depleted Below Dark Surface (A11)       Loamy Gleyed Matrix (F2)       Iron-Manganese Masses (F12) (LRR K, L, L)         Thick Dark Surface (A12)       Depleted Matrix (F3)       Piedmont Floodplain Soils (F19) (MLRA 144         Sandy Mucky Mineral (S1)       Redox Dark Surface (F7)       Red Parent Material (F21)         Sandy Redox (S5)       Marl (F10) (LRR K, L)       Other (Explain in Remarks)         Dark Surface (S7)       Marl (F10) (LRR K, L)       Other (Explain in Remarks)         Stripped Matrix (S6)       Marl (F10) (LRR K, L)       Other (Explain in Remarks)         Depth (inches):       Hydric Soil Present?       Yes X       No         Remarks:       Hydric Soil Present?       Yes X       No									
Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R,       2 cm Muck (A10) (LRR K, L, MLRA 149B)         Histic Epipedon (A2)       MLRA 149B)       Coast Prairie Redox (A16) (LRR K, L, R)         Black Histic (A3)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       5 cm Mucky Peat or Peat (S3) (LRR K, L, I         Hydrogen Sulfide (A4)       High Chroma Sands (S11) (LRR K, L)       Polyvalue Below Surface (S8) (LRR K, L)         Stratified Layers (A5)       Loamy Mucky Mineral (F1) (LRR K, L)       Thin Dark Surface (S9) (LRR K, L)         Depleted Below Dark Surface (A11)       Loamy Gleyed Matrix (F2)       Iron-Manganese Masses (F12) (LRR K, L, L)         Thick Dark Surface (A12)       Depleted Matrix (F3)       Piedmont Floodplain Soils (F19) (MLRA 144         Sandy Mucky Mineral (S1)       Redox Dark Surface (F7)       Red Parent Material (F21)         Sandy Redox (S5)       Marl (F10) (LRR K, L)       Other (Explain in Remarks)         Dark Surface (S7)       Marl (F10) (LRR K, L)       Other (Explain in Remarks)         Stripped Matrix (S6)       Marl (F10) (LRR K, L)       Other (Explain in Remarks)         Depth (inches):       Hydric Soil Present?       Yes X       No         Remarks:       Hydric Soil Present?       Yes X       No									
Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R,       2 cm Muck (A10) (LRR K, L, MLRA 149B)         Histic Epipedon (A2)       MLRA 149B)       Coast Prairie Redox (A16) (LRR K, L, R)         Black Histic (A3)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       5 cm Mucky Peat or Peat (S3) (LRR K, L, I         Hydrogen Sulfide (A4)       High Chroma Sands (S11) (LRR K, L)       Polyvalue Below Surface (S8) (LRR K, L)         Stratified Layers (A5)       Loamy Mucky Mineral (F1) (LRR K, L)       Thin Dark Surface (S9) (LRR K, L)         Depleted Below Dark Surface (A11)       Loamy Gleyed Matrix (F2)       Iron-Manganese Masses (F12) (LRR K, L, L)         Thick Dark Surface (A12)       Depleted Matrix (F3)       Piedmont Floodplain Soils (F19) (MLRA 144         Sandy Mucky Mineral (S1)       Redox Dark Surface (F7)       Red Parent Material (F21)         Sandy Redox (S5)       Marl (F10) (LRR K, L)       Other (Explain in Remarks)         Dark Surface (S7)       Marl (F10) (LRR K, L)       Other (Explain in Remarks)         Stripped Matrix (S6)       Marl (F10) (LRR K, L)       Other (Explain in Remarks)         Depth (inches):       Hydric Soil Present?       Yes X       No         Remarks:       Hydric Soil Present?       Yes X       No	·								
Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R,       2 cm Muck (A10) (LRR K, L, MLRA 149B)         Histic Epipedon (A2)       MLRA 149B)       Coast Prairie Redox (A16) (LRR K, L, R)         Black Histic (A3)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       5 cm Mucky Peat or Peat (S3) (LRR K, L, I         Hydrogen Sulfide (A4)       High Chroma Sands (S11) (LRR K, L)       Polyvalue Below Surface (S8) (LRR K, L)         Stratified Layers (A5)       Loamy Mucky Mineral (F1) (LRR K, L)       Thin Dark Surface (S9) (LRR K, L)         Depleted Below Dark Surface (A11)       Loamy Gleyed Matrix (F2)       Iron-Manganese Masses (F12) (LRR K, L, L)         Thick Dark Surface (A12)       Depleted Matrix (F3)       Piedmont Floodplain Soils (F19) (MLRA 144         Sandy Mucky Mineral (S1)       Redox Dark Surface (F7)       Red Parent Material (F21)         Sandy Redox (S5)       Marl (F10) (LRR K, L)       Other (Explain in Remarks)         Dark Surface (S7)       Marl (F10) (LRR K, L)       Other (Explain in Remarks)         3 <sup>1</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.       Yes X       No         Remarks:       Hydric Soil Present?       Yes X       No									
Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R,       2 cm Muck (A10) (LRR K, L, MLRA 149B)         Histic Epipedon (A2)       MLRA 149B)       Coast Prairie Redox (A16) (LRR K, L, R)         Black Histic (A3)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       5 cm Mucky Peat or Peat (S3) (LRR K, L, I         Hydrogen Sulfide (A4)       High Chroma Sands (S11) (LRR K, L)       Polyvalue Below Surface (S8) (LRR K, L)         Stratified Layers (A5)       Loamy Mucky Mineral (F1) (LRR K, L)       Thin Dark Surface (S9) (LRR K, L)         Depleted Below Dark Surface (A11)       Loamy Gleyed Matrix (F2)       Iron-Manganese Masses (F12) (LRR K, L, L)         Thick Dark Surface (A12)       Depleted Matrix (F3)       Piedmont Floodplain Soils (F19) (MLRA 144         Sandy Mucky Mineral (S1)       Redox Dark Surface (F7)       Red Parent Material (F21)         Sandy Redox (S5)       Redox Depressions (F8)       Very Shallow Dark Surface (F22)         Stripped Matrix (S6)       Marl (F10) (LRR K, L)       Other (Explain in Remarks)         Other (Explain in Remarks)       Polyte (If observed):       Type:         Type:	Type: C=Cor	ncentration, D=Deplet	tion, RM=	Reduced Matrix, M	S=Mas	ked Sand	Grains.	<sup>2</sup> Location: PI	L=Pore Lining, M=Matrix.
Histosol (A1)       Polyvalue Below Surface (S8) (LRR R,       2 cm Muck (A10) (LRR K, L, MLRA 149B)         Histic Epipedon (A2)       MLRA 149B)       Coast Prairie Redox (A16) (LRR K, L, R)         Black Histic (A3)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       5 cm Mucky Peat or Peat (S3) (LRR K, L, I)         Hydrogen Sulfide (A4)       High Chroma Sands (S11) (LRR K, L)       Polyvalue Below Surface (S8) (LRR K, L)         Stratified Layers (A5)       Loamy Mucky Mineral (F1) (LRR K, L)       Thin Dark Surface (S9) (LRR K, L)         Depleted Below Dark Surface (A11)       Loamy Gleyed Matrix (F2)       Iron-Manganese Masses (F12) (LRR K, L, L)         Thick Dark Surface (A12)       Depleted Matrix (F3)       Piedmont Floodplain Soils (F19) (MLRA 144, 145, 145         Sandy Mucky Mineral (S1)       Redox Dark Surface (F6)       Mesic Spodic (TA6) (MLRA 144A, 145, 145         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)       Piedmont floodplemin Remarks)       Polyee X         at the second problematic.       Hydric Soil Present?       Yes X       No         Remarks:       Remarks:       Hydric Soil Present?       Yes X       No									
Black Histic (A3)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       5 cm Mucky Peat or Peat (S3) (LRR K, L, L)         Hydrogen Sulfide (A4)       High Chroma Sands (S11) (LRR K, L)       Polyvalue Below Surface (S8) (LRR K, L)         Stratified Layers (A5)       Loamy Mucky Mineral (F1) (LRR K, L)       Thin Dark Surface (S9) (LRR K, L)         Depleted Below Dark Surface (A11)       Loamy Gleyed Matrix (F2)       Iron-Manganese Masses (F12) (LRR K, L, I)         Thick Dark Surface (A12)       Depleted Matrix (F3)       Piedmont Floodplain Soils (F19) (MLRA 144         Sandy Mucky Mineral (S1)       Redox Dark Surface (F6)       Mesic Spodic (TA6) (MLRA 144A, 145, 145         Sandy Gleyed Matrix (S4)       Depleted Dark Surface (F7)       Redox Depressions (F8)       Very Shallow Dark Surface (F22)         Stripped Matrix (S6)       Marl (F10) (LRR K, L)       Other (Explain in Remarks)       Depleted F22)         Dark Surface (S7)       Type:	-			Polyvalue Belov	w Surfa	ce (S8) ( <b>I</b>	.RR R,		
Hydrogen Sulfide (A4)       High Chroma Sands (S11) (LRR K, L)       Polyvalue Below Surface (S8) (LRR K, L)         Stratified Layers (A5)       Loamy Mucky Mineral (F1) (LRR K, L)       Thin Dark Surface (S9) (LRR K, L)         Depleted Below Dark Surface (A11)       Loamy Gleyed Matrix (F2)       Iron-Manganese Masses (F12) (LRR K, L, Piedmont Floodplain Soils (F19) (MLRA 144         Sandy Mucky Mineral (S1)       Redox Dark Surface (F6)       Mesic Spodic (TA6) (MLRA 144A, 145, 145         Sandy Gleyed Matrix (S4)       Depleted Dark Surface (F7)       Redox Depressions (F8)         Stripped Matrix (S6)       Marl (F10) (LRR K, L)       Other (Explain in Remarks)         Dark Surface (S7)       Type:	Histic Epip	pedon (A2)	-	MLRA 149B)				Coast Pr	airie Redox (A16) ( <b>LRR K, L, R</b> )
Stratified Layers (A5)       Loamy Mucky Mineral (F1) (LRR K, L)       Thin Dark Surface (S9) (LRR K, L)         Depleted Below Dark Surface (A11)       Loamy Gleyed Matrix (F2)       Iron-Manganese Masses (F12) (LRR K, L,         Thick Dark Surface (A12)       Depleted Matrix (F3)       Piedmont Floodplain Soils (F19) (MLRA 144         Sandy Mucky Mineral (S1)       Redox Dark Surface (F6)       Mesic Spodic (TA6) (MLRA 144A, 145, 145)         Sandy Gleyed Matrix (S4)       Depleted Dark Surface (F7)       Red Parent Material (F21)         Sandy Redox (S5)       Redox Depressions (F8)       Very Shallow Dark Surface (F22)         Stripped Matrix (S6)       Marl (F10) (LRR K, L)       Other (Explain in Remarks)         Dark Surface (S7)       Restrictive Layer (if observed):       Type:         Type:	Black Hist	tic (A3)		Thin Dark Surfa	ace (S9	) (LRR R	MLRA 149	B) 5 cm Mu	cky Peat or Peat (S3) ( <b>LRR K, L, R</b> )
Depleted Below Dark Surface (A11)       Loamy Gleyed Matrix (F2)       Iron-Manganese Masses (F12) (LRR K, L, Piedmont Floodplain Soils (F19) (MLRA 144         Thick Dark Surface (A12)       Depleted Matrix (F3)       Piedmont Floodplain Soils (F19) (MLRA 144         Sandy Mucky Mineral (S1)       Redox Dark Surface (F6)       Mesic Spodic (TA6) (MLRA 144A, 145, 145         Sandy Gleyed Matrix (S4)       Depleted Dark Surface (F7)       Red Parent Material (F21)         Sandy Redox (S5)       Redox Depressions (F8)       Very Shallow Dark Surface (F22)         Stripped Matrix (S6)       Marl (F10) (LRR K, L)       Other (Explain in Remarks)         Dark Surface (S7)       Restrictive Layer (if observed):       Type:         Type:	Hydrogen	Sulfide (A4)	_	High Chroma S	ands (S	611) ( <b>LRF</b>	R K, L)	Polyvalue	e Below Surface (S8) ( <b>LRR K, L</b> )
Thick Dark Surface (A12)       Depleted Matrix (F3)       Piedmont Floodplain Soils (F19) (MLRA 144, 145, 145, 145, 145, 145, 145, 145,	Stratified I	Layers (A5)	_	Loamy Mucky N	Mineral	(F1) ( <b>LR</b>	R K, L)	Thin Darl	k Surface (S9) ( <b>LRR K, L</b> )
Sandy Mucky Mineral (S1)       Redox Dark Surface (F6)       Mesic Spodic (TA6) (MLRA 144A, 145, 145         Sandy Gleyed Matrix (S4)       Depleted Dark Surface (F7)       Red Parent Material (F21)         Sandy Redox (S5)       Redox Depressions (F8)       Very Shallow Dark Surface (F22)         Stripped Matrix (S6)       Marl (F10) (LRR K, L)       Other (Explain in Remarks)         Dark Surface (S7)       Marl (so be present, unless disturbed or problematic.         Restrictive Layer (if observed):       Type:       Hydric Soil Present?       Yes X       No         Remarks:       Remarks:       Kemarks:       Kemarks       Kemarks	Depleted I	Below Dark Surface (	(A11)	Loamy Gleyed	Matrix (	F2)		Iron-Man	iganese Masses (F12) ( <b>LRR K, L, R</b> )
Sandy Gleyed Matrix (S4)       Depleted Dark Surface (F7)       Red Parent Material (F21)         Sandy Redox (S5)       Redox Depressions (F8)       Very Shallow Dark Surface (F22)         Stripped Matrix (S6)       Marl (F10) (LRR K, L)       Other (Explain in Remarks)         Dark Surface (S7)       Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.         Restrictive Layer (if observed):       Type:         Depth (inches):       Hydric Soil Present?       Yes X       No         Remarks:	Thick Darl	k Surface (A12)	_	Depleted Matrix	(F3)			Piedmon	t Floodplain Soils (F19) ( <b>MLRA 149</b>
Sandy Redox (S5)       Redox Depressions (F8)       Very Shallow Dark Surface (F22)         Stripped Matrix (S6)       Marl (F10) (LRR K, L)       Other (Explain in Remarks)         Dark Surface (S7)       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 X       No         Remarks:       Image: No       No       Image: No	Sandy Mu	ucky Mineral (S1)	_	Redox Dark Su	rface (F	6)		Mesic Sp	oodic (TA6) ( <b>MLRA 144A, 145, 149B</b>
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 X       No         Remarks:       Remarks:	Sandy Gle	eyed Matrix (S4)	_	Depleted Dark	Surface	e (F7)		Red Pare	ent Material (F21)
Dark Surface (S7) <sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.  Restrictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes X No Remarks:	Sandy Re	:dox (S5)	_	Redox Depress	ions (F	8)		Very Sha	allow Dark Surface (F22)
<sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.   Restrictive Layer (if observed):  Type: Depth (inches): Remarks:	Stripped N	vlatrix (S6)	_	Marl (F10) ( <b>LRI</b>	<b>R K, L</b> )			Other (Ex	xplain in Remarks)
Restrictive Layer (if observed):         Type:         Hydric Soil Present?         Yes X         No           Depth (inches):	Dark Surfa	ace (S7)							
Restrictive Layer (if observed):         Type:         Hydric Soil Present?         Yes X         No           Depth (inches):									
Type:	<sup>3</sup> Indicators of h	hydrophytic vegetatio	n and we	tland hydrology mu	st be p	resent, ur	less disturb	ed or problematic.	
Depth (inches):	Restrictive La	ayer (if observed):							
Remarks:	Type:								
		ches).						Hydric Soil Presen	nt? Yes <u>X</u> No
							Į		
Soils not collected because dominated by FACW, standing water present, and boundary abrupt.	Depth (inc								
	Depth (inc Remarks:		ated by F	ACW, standing wat	er pres	ent, and b	oundary ab	rupt.	
	Depth (inc Remarks:		ated by F	ACW, standing wat	er pres	ent, and b	ooundary ab	rupt.	
	Depth (inc Remarks:		ated by F	ACW, standing wat	er pres	ent, and t	ooundary ab	rupt.	
	Depth (inc Remarks:		ated by F	ACW, standing wat	er pres	ent, and t	ooundary ab	rupt.	
	Depth (inc Remarks:		ated by F.	ACW, standing wat	er pres	ent, and t	oundary ab	rupt.	
	Depth (inc Remarks:		ated by F	ACW, standing wat	er prese	ent, and b	oundary ab	rupt.	
	Depth (inc Remarks:		ated by F.	ACW, standing wat	er pres	ent, and b	ooundary ab	rupt.	
	Depth (inc Remarks:		ated by F.	ACW, standing wat	er pres	ent, and b	ooundary ab	rupt.	
	Depth (inc Remarks:		ated by F	ACW, standing wat	er preso	ent, and b	oundary ab	rupt.	
	Depth (inc Remarks:		ated by F	ACW, standing wat	er prese	ent, and t	oundary ab	rupt.	
	Depth (inc Remarks:		ated by F	ACW, standing wat	er prese	ent, and t	oundary ab	rupt.	
	Depth (inc Remarks:		ated by F	ACW, standing wat	er prese	ent, and t	oundary ab	rupt.	



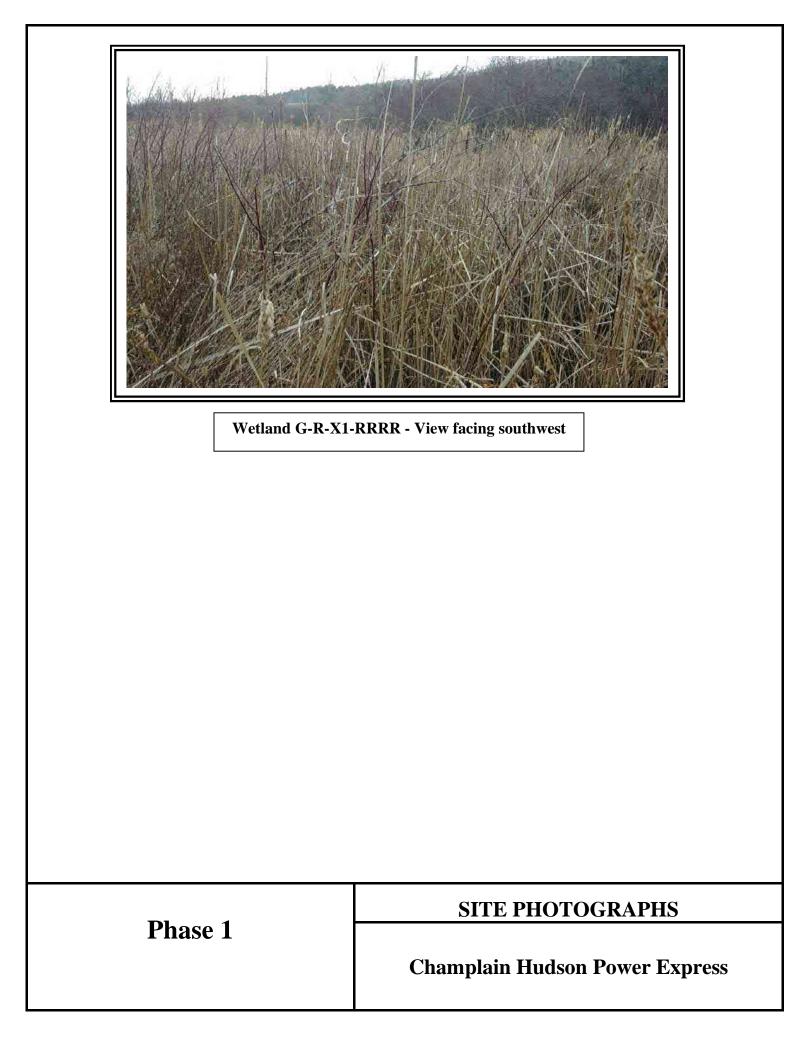
Project/Site: CHPE	City/County: Whitehall/Washington Sampling Date: 1/6/22
Applicant/Owner: TDI	State: NY Sampling Point: GR-X-IRRR Wet
Investigator(s): J. Greaves & C. Scrivner	Section, Township, Range:
Landform (hillside, terrace, etc.): Depression Local	relief (concave, convex, none): Concave Slope %: 3
Subregion (LRR or MLRA):         LRR R         Lat:         43-31-47N	Long: <u>73-24-32W</u> Datum: <u>WSG 84</u>
Soil Map Unit Name: OP - Orthents and Psamments	NWI classification: PEM1
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes X No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrologysignificantly distur	rbed? 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 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:
Remarks: (Explain alternative procedures here or in a separate report.) Cattail marsh.	

Wetland Hydrology Indicators:			Secondary Indicators (minimum of two required)				
Primary Indicators (minimum of one is re	equired; check all that apply)		Surface Soil Cracks (B6)				
X Surface Water (A1)	Water-Stained Leaves (B9)		Drainage Patterns (B10)				
X High Water Table (A2)	Aquatic Fauna (B13)		Moss Trim Lines (B16)				
X Saturation (A3)	Marl Deposits (B15)		Dry-Season Water Table (C2)				
Water Marks (B1)	Hydrogen Sulfide Odor (C1)		Crayfish Burrows (C8)				
Sediment Deposits (B2)	Oxidized Rhizospheres on L	iving 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 Til	led Soils (C6)	X Geomorphic Position (D2)				
Iron Deposits (B5)	Thin Muck Surface (C7)		Shallow Aquitard (D3)				
Inundation Visible on Aerial Imagery	Microtopographic Relief (D4)						
Sparsely Vegetated Concave Surface	ce (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):	0					
Saturation Present? Yes X	No Depth (inches):	0 Wetla	nd Hydrology Present? Yes X No				
(includes capillary fringe)							
Describe Recorded Data (stream gauge,	, monitoring well, aerial photos, previou	us inspections), if	available:				
Remarks:							

Sampling Point: -R-X-1RRRR W

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:2 (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: <u>100.0%</u> (A/B)
7				Prevalence Index worksheet:
		=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15' )				OBL species 95 x 1 =95
1. Cornus alba	15	Yes	FACW	FACW species 15 x 2 = 30
2				FAC species x 3 =0
3				FACU species x 4 =
4				UPL species x 5 =
5				Column Totals: 110 (A) 125 (B)
6				Prevalence Index = B/A =1.14
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. Typha angustifolia	90	Yes	OBL	X 3 - Prevalence Index is $\leq 3.0^1$
2. Lythrum salicaria	5	No	OBL	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
3.				data in Remarks or on a separate sheet)
4.				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5.				
6				<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
7.				Definitions of Vegetation Strata:
8				<b>Tree</b> – 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		-Tatal Cause		<b>Herb</b> – All herbaceous (non-woody) plants, regardless
	95	=Total Cover		of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum         (Plot size:30')           1.				<b>Woody vines</b> – All woody vines greater than 3.28 ft in height.
2.				
3.				Hydrophytic Vegetation
4.				Present? Yes X No
		=Total Cover		
Remarks: (Include photo numbers here or on a sepa	rate sheet.)			

(inches)       Color (moist)       %       Color (moist)       %       Type <sup>1</sup> Loc <sup>2</sup> Texture       Remarks	Depth	Matrix			x Featu			onfirm the absence of indicators.)
Image: Section of the section of th			%				Loc <sup>2</sup>	Texture Remarks
Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :	<u>, , , , , , , , , , , , , , , , , , , </u>							
Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :								
Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :								
Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :								
Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :								
Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :						·		
Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :								
Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :								
Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :						·		
Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :								
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Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :								
Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :	<sup>1</sup> Type: C=Cc	ncentration D=Depl	etion RM:	=Reduced Matrix N	/S=Mas	ked Sand	Grains	<sup>2</sup> Location: PL=Pore Lining M=Matrix
Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, Cast Prairie Redox (A10) (LRR K, L, MLRA 149B)         Histic Epipedon (A2)       MLRA 149B)         Black Histic (A3)       Thin Dark Surface (S9) (LRR R, MLRA 149B)         Hydrogen Sulfide (A4)       High Chroma Sands (S11) (LRR K, L)         Stratified Layers (A5)       Loamy Mucky Mineral (F1) (LRR K, L)         Depleted Below Dark Surface (A11)       Loamy Gleyed Matrix (F2)         Thick Dark Surface (A12)       Depleted Matrix (F3)         Sandy Mucky Mineral (S1)       Redox Dark Surface (F6)         Sandy Gleyed Matrix (S4)       Depleted Dark Surface (F7)         Sandy Redox (S5)       Redox Depressions (F8)         Dark Surface (S7)       Warr (F10) (LRR K, L)         3Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.         Restrictive Layer (if observed):       Type:         Type:       Depth (inches):         Depth (inches):       Hydric Soil Present?       Yes X         Remarks:				rteduced matrix, h			oranio.	
Histic Epipedon (A2)       MLRA 149B)       Coast Prairie Redox (A16) (LRR K, L, R)         Black Histic (A3)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       5 cm Mucky Peat or Peat (S3) (LRR K, L, F)         Hydrogen Sulfide (A4)       High Chroma Sands (S11) (LRR K, L)       Polyvalue Below Surface (S8) (LRR K, L)         Stratified Layers (A5)       Loamy Mucky Mineral (F1) (LRR K, L)       Thin Dark Surface (S9) (LRR K, L)         Depleted Below Dark Surface (A11)       Loamy Gleyed Matrix (F2)       Iron-Manganese Masses (F12) (LRR K, L, I)         Thick Dark Surface (A12)       Depleted Matrix (F3)       Piedmont Floodplain Soils (F19) (MLRA 144, 145, 149         Sandy Mucky Mineral (S1)       Redox Dark Surface (F6)       Mesic Spodic (TA6) (MLRA 144A, 145, 149         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)       3 <sup>1</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.       Yes X       No         Remarks:       Hydric Soil Present?       Yes X       No	-			Polvvalue Belo	w Surfa	ice (S8) (	LRR R.	
Black Histic (A3)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       5 cm Mucky Peat or Peat (S3) (LRR K, L, F, F         Hydrogen Sulfide (A4)       High Chroma Sands (S11) (LRR K, L)       Polyvalue Below Surface (S8) (LRR K, L)         Stratified Layers (A5)       Loamy Mucky Mineral (F1) (LRR K, L)       Thin Dark Surface (S9) (LRR K, L)         Depleted Below Dark Surface (A11)       Loamy Gleyed Matrix (F2)       Iron-Manganese Masses (F12) (LRR K, L, J)         Thick Dark Surface (A12)       Depleted Matrix (F3)       Piedmont Floodplain Soils (F19) (MLRA 144         Sandy Mucky Mineral (S1)       Redox Dark Surface (F6)       Mesic Spodic (TA6) (MLRA 144A, 145, 149         Sandy Gleyed Matrix (S4)       Depleted Dark Surface (F7)       Red Parent Material (F21)         Sandy Redox (S5)       Redox Depressions (F8)       Very Shallow Dark Surface (F22)         Stripped Matrix (S6)       Marl (F10) (LRR K, L)       Other (Explain in Remarks)         Dark Surface (S7)       Restrictive Layer (if observed):       Type:         Type:		. ,	-			()(	,	
Hydrogen Sulfide (A4)       High Chroma Sands (S11) (LRR K, L)       Polyvalue Below Surface (S8) (LRR K, L)         Stratified Layers (A5)       Loamy Mucky Mineral (F1) (LRR K, L)       Thin Dark Surface (S9) (LRR K, L)         Depleted Below Dark Surface (A11)       Loamy Gleyed Matrix (F2)       Iron-Manganese Masses (F12) (LRR K, L, I)         Thick Dark Surface (A12)       Depleted Matrix (F3)       Piedmont Floodplain Soils (F19) (MLRA 144, 145, 149)         Sandy Mucky Mineral (S1)       Redox Dark Surface (F6)       Mesic Spodic (TA6) (MLRA 144A, 145, 149)         Sandy Redox (S5)       Redox Depressions (F8)       Very Shallow Dark Surface (F22)         Stripped Matrix (S6)       Marl (F10) (LRR K, L)       Other (Explain in Remarks) <sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.       Restrictive Layer (if observed):         Type:					<i>,</i>	) (LRR R	MLRA 1	
Stratified Layers (A5)       Loamy Mucky Mineral (F1) (LRR K, L)       Thin Dark Surface (S9) (LRR K, L)         Depleted Below Dark Surface (A11)       Loamy Gleyed Matrix (F2)       Iron-Manganese Masses (F12) (LRR K, L, I)         Thick Dark Surface (A12)       Depleted Matrix (F3)       Piedmont Floodplain Soils (F19) (MLRA 144         Sandy Mucky Mineral (S1)       Redox Dark Surface (F6)       Mesic Spodic (TA6) (MLRA 144A, 145, 149)         Sandy Gleyed Matrix (S4)       Depleted Dark Surface (F7)       Red Parent Material (F21)         Sandy Redox (S5)       Redox Depressions (F8)       Very Shallow Dark Surface (F22)         Stripped Matrix (S6)       Marl (F10) (LRR K, L)       Other (Explain in Remarks)         Dark Surface (S7)       Restrictive Layer (if observed):       Type:         Type:			-					
Depleted Below Dark Surface (A11)       Loamy Gleyed Matrix (F2)       Iron-Manganese Masses (F12) (LRR K, L, I         Thick Dark Surface (A12)       Depleted Matrix (F3)       Piedmont Floodplain Soils (F19) (MLRA 144         Sandy Mucky Mineral (S1)       Redox Dark Surface (F6)       Mesic Spodic (TA6) (MLRA 144A, 145, 149)         Sandy Gleyed Matrix (S4)       Depleted Dark Surface (F7)       Red Parent Material (F21)         Sandy Redox (S5)       Redox Depressions (F8)       Very Shallow Dark Surface (F22)         Stripped Matrix (S6)       Marl (F10) (LRR K, L)       Other (Explain in Remarks)         Dark Surface (S7)       If observed):       Type:         Type:			-					
Sandy Mucky Mineral (S1)       Redox Dark Surface (F6)       Mesic Spodic (TA6) (MLRA 144A, 145, 149)         Sandy Gleyed Matrix (S4)       Depleted Dark Surface (F7)       Red Parent Material (F21)         Sandy Redox (S5)       Redox Depressions (F8)       Very Shallow Dark Surface (F22)         Stripped Matrix (S6)       Marl (F10) (LRR K, L)       Other (Explain in Remarks)         Dark Surface (S7)       Marl (F10) (LRR K, L)       Other (Explain in Remarks)         3 Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.       Yes X       No         Restrictive Layer (if observed):       Type:       Letter (inches):       Yes X       No         Remarks:       Hydric Soil Present?       Yes X       No			(A11)					Iron-Manganese Masses (F12) (LRR K, L, F
Sandy Gleyed Matrix (S4)       Depleted Dark Surface (F7)       Red Parent Material (F21)         Sandy Redox (S5)       Redox Depressions (F8)       Very Shallow Dark Surface (F22)         Stripped Matrix (S6)       Marl (F10) (LRR K, L)       Other (Explain in Remarks)         Dark Surface (S7)       Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.         Restrictive Layer (if observed):       Type:         Depth (inches):       Hydric Soil Present?       Yes X       No         Remarks:	Thick Da	rk Surface (A12)		Depleted Matri	x (F3)			Piedmont Floodplain Soils (F19) (MLRA 149
Sandy Redox (S5)       Redox Depressions (F8)       Very Shallow Dark Surface (F22)         Stripped Matrix (S6)       Marl (F10) (LRR K, L)       Other (Explain in Remarks) <sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.       Restrictive Layer (if observed):         Type:       Depth (inches):       Yes X       No         Remarks:       Remarks:       No       No	Sandy M	lucky Mineral (S1)	-	Redox Dark Su	urface (F	=6)		Mesic Spodic (TA6) ( <b>MLRA 144A, 145, 149</b>
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 X       No         Remarks:       Remarks:	Sandy G	leyed Matrix (S4)	-	Depleted Dark	Surface	e (F7)		Red Parent Material (F21)
Dark Surface (S7) <sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.  Restrictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes X No Remarks:	Sandy R	edox (S5)		Redox Depres	sions (F	8)		Very Shallow Dark Surface (F22)
<sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.           Restrictive Layer (if observed):         Type:         Depth (inches):         Remarks:	Stripped	Matrix (S6)		Marl (F10) ( <b>LR</b>	R K, L)			Other (Explain in Remarks)
Restrictive Layer (if observed):         Type:           Depth (inches):	Dark Sur	face (S7)						
Restrictive Layer (if observed):         Type:         Hydric Soil Present?         Yes X         No           Depth (inches):								
Type:	<sup>3</sup> Indicators of	hydrophytic vegetat	ion and we	etland hydrology mu	ust be p	resent, ur	nless dist	urbed or problematic.
Depth (inches):	Restrictive L	ayer (if observed):						
Remarks:	Type:							
	Depth (ir	nches):						Hydric Soil Present? Yes X No
	Remarks:							
Soils not collected because dominated by OBL and FACW and wetland boundary is abrupt.		ected because domi	nated by C	BL and FACW and	d wetlan	d bounda	ry is abru	upt.



Project/Site: CHPE	City/County: Whitehall/Washington Sampling Date: 1/6/22
Applicant/Owner: TDI	State: NY Sampling Point: GR.X-IRRBR Upi
Investigator(s): J. Greaves & C. Scrivner	Section, Township, Range:
Landform (hillside, terrace, etc.): Terrace	Local relief (concave, convex, none): Convex Slope %: 2
Subregion (LRR or MLRA): LRR R Lat:	<u>43-31-46N</u> Long: <u>73-24-32W</u> Datum: <u>WGS 84</u>
Soil Map Unit Name: OP - Orthents and Psamments	NWI classification:
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 ma	o showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes	No X	Is the Sampled Area           within a Wetland?         Yes         NoX           If yes, optional Wetland Site ID:
Hydric Soil Present?	Yes	No X	
Wetland Hydrology Present?	Yes	No X	
Remarks: (Explain alternative procedu Successional old field. This data plot re		,	tland plots G-R-X-1RRRR and G-R-X-1SSSS.

Wetland Hydrology Indicators:			Secondary Indicators (min	imum of two required)			
Primary Indicators (minimum of one is requi	red; check all that apply)		Surface Soil Cracks (B	36)			
Surface Water (A1)	Water-Stained Leaves (B9)		Drainage Patterns (B10)				
High Water Table (A2)	Aquatic Fauna (B13)		Moss Trim Lines (B16)				
Saturation (A3)	Marl Deposits (B15)		Dry-Season Water Ta	ble (C2)			
Water Marks (B1)	Water Marks (B1) Hydrogen Sulfide Odor (C1)						
Sediment Deposits (B2)	Saturation Visible on Aerial Imagery (C9)						
Drift Deposits (B3)	Stunted or Stressed P	Plants (D1)					
Algal Mat or Crust (B4)	Recent Iron Reduction in Tilled Soil	s (C6)	Geomorphic Position	(D2)			
Iron Deposits (B5)	Thin Muck Surface (C7)		Shallow Aquitard (D3)				
Inundation Visible on Aerial Imagery (B	7) Other (Explain in Remarks)		Microtopographic Reli	ef (D4)			
Sparsely Vegetated Concave Surface (I	38)		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):	Wetlar	nd Hydrology Present?	Yes No X			
(includes capillary fringe)			, ,				
Describe Recorded Data (stream gauge, mo	pnitoring well, aerial photos, previous inspe	ctions), if	available:				
		,-					
Remarks:							
1							

Sampling Point: -R-X-1RRRR U

<u>Tree Stratum</u> (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1				Number of Dominant Species
2				That Are OBL, FACW, or FAC:0 (A)
3				Total Number of Dominant
4				Species Across All Strata:(B)
5 6				Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)
7.				Prevalence Index worksheet:
		=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15' )				OBL species x 1 =
1. Rhus typhina	2	No	UPL	FACW species 2 x 2 = 4
2. Cornus alba	2	No	FACW	FAC species x 3 =
3				FACU species <u>85</u> x 4 = <u>340</u>
4				UPL species 17 x 5 = 85
5				Column Totals: 104 (A) 429 (B)
6.				Prevalence Index = B/A = 4.13
7.				Hydrophytic Vegetation Indicators:
	4	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5')				2 - Dominance Test is >50%
1. Solidago canadensis	70	Yes	FACU	3 - Prevalence Index is ≤3.0 <sup>1</sup>
2. Oenothera biennis	10	No	FACU	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
3. Hypericum perforatum	10	No	UPL	data in Remarks or on a separate sheet)
4. Verbascum thapsus	5	No	UPL	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5. Alliaria petiolata	5	No	FACU	
6.				<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
7.				Definitions of Vegetation Strata:
8.				
9.				<b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
10.				
11.				<b>Sapling/shrub</b> – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
12.				Herb – All herbaceous (non-woody) plants, regardless
	100	=Total Cover		of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size: 30')				Woody vines – All woody vines greater than 3.28 ft in
1				height.
2.				
3.				Hydrophytic
4.				Vegetation Present? Yes No X
		=Total Cover		
Remarks: (Include photo numbers here or on a sepa				

Profile Descri	ption: (Describe t	o the dep	th needed to doc	ument t	he indica	tor or co	onfirm the absen	ce of indica	itors.)	
Depth	Matrix		Redo	x Featu	res					
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture		Rema	ks
	centration, D=Deple	tion PM	-Poducod Matrix	MS-Mac	kod Sand	Grains	<sup>2</sup> l ocatio	n: DI -Doro	Lining, M=Ma	triv
Hydric Soil Inc				10-11183		oranis.			lematic Hydri	
-			Dobacoluo Polo		00 (50) (				) (LRR K, L, I	
Histosol (A		-	Polyvalue Belo		ce (30) (I	<u>-</u> K K K,				
Histic Epip			MLRA 1498	,					edox (A16) ( <b>LF</b>	
Black Histi		-	Thin Dark Sur				· · · · ·	-		) (LRR K, L, R)
	Sulfide (A4)	-	High Chroma	-					v Surface (S8)	
	ayers (A5)		Loamy Mucky			R K, L)			ce (S9) ( <b>LRR</b>	
	Below Dark Surface	(A11) .	Loamy Gleyed		(F2)			-	-	) (LRR K, L, R)
	Surface (A12)	-	Depleted Matr							9) ( <b>MLRA 149B</b> )
	cky Mineral (S1)	-	Redox Dark S		-					44A, 145, 149B)
	yed Matrix (S4)	-	Depleted Dark					Parent Mat		
Sandy Rec	lox (S5)	-	Redox Depres	sions (F	8)		Ver	y Shallow Da	ark Surface (F	22)
Stripped M	latrix (S6)	-	Marl (F10) ( <b>LF</b>	RRK,L)			Oth	er (Explain iı	n Remarks)	
Dark Surfa	ice (S7)									
<sup>3</sup> Indicators of h	ydrophytic vegetati	on and we	etland hydrology m	ust be p	resent, ur	iless dist	urbed or problema	atic.		
Restrictive La	yer (if observed):									
Туре:										
Depth (incl	hes) <sup>.</sup>						Hydric Soil Pr	resent?	Yes	No X
Remarks:										
Ground was fro	ozen so soils not do	cumented	1.							



Upland G-R-X1-RRRR and G-R-X1-SSSS - View facing south/southwest

# Package 1C

# SITE PHOTOGRAPHS

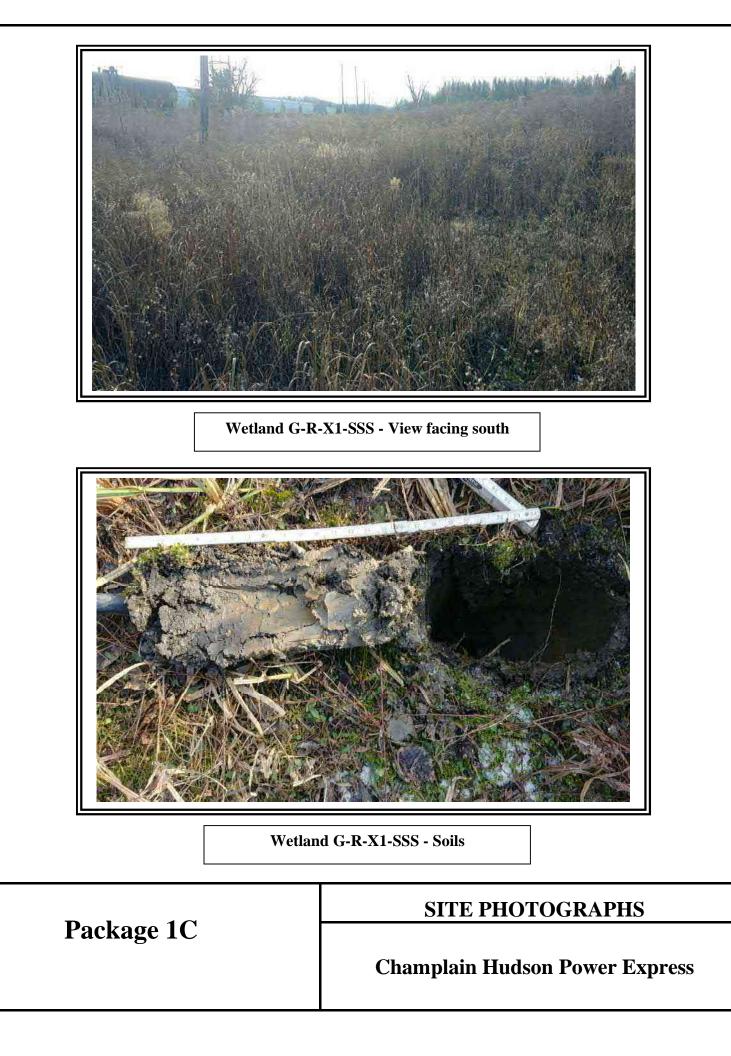
Project/Site: CHPE		City/County: Whitehall/washington	Sampling Date: 1/6/22
Applicant/Owner: TDI		State: NY	Sampling Point: G-R-X-1SSS Wet
Investigator(s): J. Greaves & C. Sc	rivner	Section, Township, Range:	
Landform (hillside, terrace, etc.):	Depression L	ocal relief (concave, convex, none): <u>Concave</u>	Slope %: 3
Subregion (LRR or MLRA): LRR F	Lat: <u>43-31-31N</u>	Long: 73-24-37W	Datum: WGS 84
Soil Map Unit Name: OP - Orthent	s and Psamments	NWI classification	n: PEM1
Are climatic / hydrologic conditions of	on the site typical for this time of ye	ear? Yes X No (If no	, explain in Remarks.)
Are Vegetation, Soil	, or Hydrologysignificantly d	disturbed? Are "Normal Circumstances" pre	esent? Yes X No
Are Vegetation, Soil	, or Hydrologynaturally prob	blematic? (If needed, explain any answers	in Remarks.)
SUMMARY OF FINDINGS -	Attach site map showing s	sampling point locations, transects, i	mportant 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:	
	cedures here or in a separate report	t.)	
Shallow emergent marsh.			

Wetland Hydrology Indicators:			Secondary Indicators (minimum of two required)		
Primary Indicators (minimum of one is requir	ed; check all that apply)		Surface Soil Cracks (B6)		
X Surface Water (A1)		Drainage Patterns (B10)			
X High Water Table (A2)		Moss Trim Lines (B16)			
X Saturation (A3)	Marl Deposits (B15)		Dry-Season Water Table (C2)		
Water Marks (B1)		Crayfish Burrows (C8)			
Sediment Deposits (B2)	oots (C3)	Saturation Visible on Aerial Imagery (C9)			
Drift Deposits (B3)		Stunted or Stressed Plants (D1)			
Algal Mat or Crust (B4)	s (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 (B	8)		X FAC-Neutral Test (D5)		
Field Observations:					
Surface Water Present? Yes X	No Depth (inches): 1				
Water Table Present? Yes X	No Depth (inches): 12				
Saturation Present? Yes X	No Depth (inches): 10	Wetland	Hydrology Present? Yes X No		
(includes capillary fringe)					
(includes capillary inlige)					
Describe Recorded Data (stream gauge, mo	nitoring well, aerial photos, previous inspe	ctions), if a	vailable:		
	nitoring well, aerial photos, previous inspe	ctions), if a	vailable:		
	nitoring well, aerial photos, previous inspe	tions), if a	vailable:		
	nitoring well, aerial photos, previous inspe	ctions), if a	vailable:		
Describe Recorded Data (stream gauge, mo	nitoring well, aerial photos, previous inspe	ctions), if a	vailable:		
Describe Recorded Data (stream gauge, mo	nitoring well, aerial photos, previous inspe	L ctions), if a	vailable:		
Describe Recorded Data (stream gauge, mo	nitoring well, aerial photos, previous inspe	Lctions), if a	vailable:		
Describe Recorded Data (stream gauge, mo	nitoring well, aerial photos, previous inspe	Lctions), if a	vailable:		
Describe Recorded Data (stream gauge, mo	nitoring well, aerial photos, previous inspe	Lctions), if a	vailable:		
Describe Recorded Data (stream gauge, mo	nitoring well, aerial photos, previous inspe	Lctions), if a	vailable:		
Describe Recorded Data (stream gauge, mo	nitoring well, aerial photos, previous inspe	L ctions), if a	vailable:		
Describe Recorded Data (stream gauge, mo	nitoring well, aerial photos, previous inspe	L ctions), if a	vailable:		

Sampling Point: 3-R-X-1SSS We

Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
Fraxinus pennsylvanica  2.	5	Yes	FACW	Number of Dominant Species That Are OBL, FACW, or FAC:5(A)
3 4				Total Number of Dominant         Species Across All Strata:         5         (B)
5.           6.				Percent of Dominant Species That Are OBL, FACW, or FAC:100.0% (A/B)
7				Prevalence Index worksheet:
	5	=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15')				OBL species 90 x 1 = 90
1. Cornus alba	5	Yes	FACW	FACW species 12 $x 2 = 24$
2. Fraxinus pennsylvanica	2	Yes	FACW	FAC species 0 x 3 = 0
3.				FACU species 0 x 4 = 0
				UPL species $0 \times 5 = 0$
5				Column Totals: 102 (A) 114 (B)
6				Prevalence Index = $B/A = 1.12$
7.				
/		=Total Cover		Hydrophytic Vegetation Indicators:
	7	= I otal Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5')				X 2 - Dominance Test is >50%
1. Carex lacustris	45	Yes	OBL	$X_3$ - Prevalence Index is ≤3.0 <sup>1</sup>
2. Symphyotrichum puniceum	20	Yes	OBL	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
3. Lythrum salicaria	15	No	OBL	data in Remarks or on a separate sheet)
4. Epilobium coloratum	10	No	OBL	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
6.				be present, unless disturbed or problematic.
7.				Definitions of Vegetation Strata:
8				
9.				<b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
10.				
11.				<b>Sapling/shrub</b> – 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
	90	=Total Cover		of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum         (Plot size:30')           1.				<b>Woody vines</b> – All woody vines greater than 3.28 ft in height.
2.				
3.				Hydrophytic
				Vegetation Present? Yes X No
4		=Total Cover		
Remarks: (Include photo numbers here or on a sepa				

Profile Desc	ription: (Describe t	o the de	pth needed to docu	ument th	ne indica	ator or co	onfirm the absence o	f indicators.)
Depth	Matrix		Redox	x Featur	es			
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-5	2.5Y 2.5/1	95	10YR 3/4	5	с	m	Loamy/Clayey	Prominent redox concentrations
5-11	N 2.5/	60	10YR 4/6	10	C		Loamy/Clayey	Prominent redox concentrations
			10YR 5/8	30	c			
11-16	N 3/	65	10YR 5/6	35	C		Loamy/Clayey	Prominent redox concentrations
-		etion, RN	/I=Reduced Matrix, M	IS=Masl	ked Sand	d Grains.		PL=Pore Lining, M=Matrix.
Hydric Soil I					( <b>-</b> ) (			or Problematic Hydric Soils <sup>3</sup> :
Histosol (			Polyvalue Belo		ce (S8) (I	LRR R,		uck (A10) ( <b>LRR K, L, MLRA 149B</b> )
	pedon (A2)		MLRA 149B	,				rairie Redox (A16) ( <b>LRR K, L, R</b> )
Black His			Thin Dark Surfa		-			ucky Peat or Peat (S3) (LRR K, L, R)
	n Sulfide (A4)		High Chroma S					ie Below Surface (S8) (LRR K, L)
	Layers (A5)		Loamy Mucky I			<b>R K, L</b> )		rk Surface (S9) ( <b>LRR K, L</b> )
Depleted	Below Dark Surface	(A11)	Loamy Gleyed	Matrix (	F2)		Iron-Mai	nganese Masses (F12) ( <b>LRR K, L, R</b> )
Thick Da	rk Surface (A12)		Depleted Matrix	x (F3)			Piedmo	nt Floodplain Soils (F19) ( <b>MLRA 149B</b> )
Sandy M	ucky Mineral (S1)		X Redox Dark Su	urface (F	6)		Mesic S	podic (TA6) ( <b>MLRA 144A, 145, 149B</b> )
Sandy Gl	eyed Matrix (S4)		Depleted Dark	Surface	(F7)		Red Par	ent Material (F21)
Sandy Re	edox (S5)		? Redox Depress	sions (F8	8)		Very Sh	allow Dark Surface (F22)
Stripped Matrix (S6)Marl (F10) (LRR K, L)					Other (E	Explain in Remarks)		
Dark Sur	face (S7)							
		on and v	vetland hydrology mu	ust be pr	resent, ur	nless dist	turbed or problematic.	
	ayer (if observed):							
Type: _ Depth (in	ches) <sup>.</sup>						Hydric Soil Prese	nt? Yes X No
Remarks:								<u> </u>
This data forr			l and Northeast Regi .usda.gov/Internet/FS					CS Field Indicators of Hydric Soils,
		ww.mcs	.usua.gov/internet/i t			0/11/0314	2pz_001290.000x)	



Project/Site: CHPE	City/County: Whitehall/Washington Sampling Date: 1.6.22
Applicant/Owner: TDI	State: NY Sampling Point: GR-X-1SSS Upi
Investigator(s): J. Greaves & C. Scrivner	Section, Township, Range:
Landform (hillside, terrace, etc.): Terrace Loc	cal relief (concave, convex, none): Convex Slope %: 3
Subregion (LRR or MLRA): LRR R Lat: 43-31-31N	Long: 73-24-37W Datum: WGS 84
Soil Map Unit Name: OP - Orthents and Psamments	NWI classification: NA
Are climatic / hydrologic conditions on the site typical for this time of year	r? Yes X No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrologysignificantly dis	sturbed? Are "Normal Circumstances" present? Yes X No
Are Vegetation, Soil, or Hydrologynaturally proble	ematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sa	ampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes	No X	Is the Sampled Area           within a Wetland?         Yes         NoX           If yes, optional Wetland Site ID:
Hydric Soil Present?	Yes	No X	
Wetland Hydrology Present?	Yes	No X	
Remarks: (Explain alternative proced Successional old field.	dures here or in a	separate report.)	

Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)	
Primary Indicators (minimum of one is requ	red; check all that apply)	Surface Soil Cracks (B6)	
Surface Water (A1)	Drainage Patterns (B10)		
High Water Table (A2)	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 Roo	ts (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 (B	7) Other (Explain in Remarks)	Microtopographic Relief (D4)	
Sparsely Vegetated Concave Surface (	B8)	FAC-Neutral Test (D5)	
Field Observations:			
Surface Water Present? Yes	No X Depth (inches):		
Water Table Present? Yes	No X Depth (inches):		
	land Hydrology Present? Yes No X		
Saturation Present? Yes	No X Depth (inches):	Wetland Hydrology Present? Yes No X	
Saturation Present? Yes (includes capillary fringe)		Wetland Hydrology Present? Yes <u>No X</u>	
(includes capillary fringe)			
(includes capillary fringe)	No X Depth (inches):		
(includes capillary fringe) Describe Recorded Data (stream gauge, m	No X Depth (inches):		
(includes capillary fringe)	No X Depth (inches):		
(includes capillary fringe) Describe Recorded Data (stream gauge, m	No X Depth (inches):		
(includes capillary fringe) Describe Recorded Data (stream gauge, m	No X Depth (inches):		
(includes capillary fringe) Describe Recorded Data (stream gauge, m	No X Depth (inches):		
(includes capillary fringe) Describe Recorded Data (stream gauge, m	No X Depth (inches):		
(includes capillary fringe) Describe Recorded Data (stream gauge, m	No X Depth (inches):		
(includes capillary fringe) Describe Recorded Data (stream gauge, m	No X Depth (inches):		
(includes capillary fringe) Describe Recorded Data (stream gauge, m	No X Depth (inches):		
(includes capillary fringe) Describe Recorded Data (stream gauge, m	No X Depth (inches):		

Sampling Point: 3-R-X-1SSS Up

Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1.       2.				Number of Dominant Species That Are OBL, FACW, or FAC:(A)
3.       4.				Total Number of Dominant Species Across All Strata:3(B)
5.           6.				Percent of Dominant Species That Are OBL, FACW, or FAC:
7.				Prevalence Index worksheet:
		=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15')				OBL species         0         x 1 =         0
1. Rhamnus cathartica	5	Yes	FAC	FACW species $0   x 2 = 0$
2.				FAC species 5 x 3 = 15
3.				FACU species 30 x 4 = 120
				UPL species 70 x 5 = 350
				Column Totals: 105 (A) 485 (B)
6				Prevalence Index = $B/A = 4.62$
7				Hydrophytic Vegetation Indicators:
<i>I</i>	5	=Total Cover		
Hack Obstance (Distance 51	5	- I otal Cover		Appendix and the second s
Herb Stratum (Plot size: 5')				2 - Dominance Test is >50%
1. Centaurea stoebe	50	Yes	UPL	3 - Prevalence Index is ≤3.0 <sup>1</sup>
2. Oenothera biennis	30	Yes	FACU	4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
3. Hypericum perforatum	15	No	UPL	data in itemaria of on a separate sheet)
4. Daucus carota	5	No	UPL	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
6				be present, unless disturbed or problematic.
7				Definitions of Vegetation Strata:
8				<b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in
9.				diameter at breast height (DBH), regardless of height.
10.				Continue (about a Weady plants loss than 2 in DDU
11.				<b>Sapling/shrub</b> – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
12.				
	100	=Total Cover	·	<b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
<u>Woody Vine Stratum</u> (Plot size: 30')				
·				<b>Woody vines</b> – All woody vines greater than 3.28 ft in height.
				neight.
				Hydrophytic
3				Vegetation
4				Present? Yes <u>No X</u>
		=Total Cover		
Remarks: (Include photo numbers here or on a separation of the sep	rate sheet.)			

Profile Desc	cription: (Describe	to the dep	th needed to doc	ument t	he indica	tor or co	onfirm the	absence of indica	tors.)	
Depth	Matrix		Redo	x Featu	res					
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Text	ture	Rema	irks
					·					
		<u> </u>			·					
		<u> </u>								
		<u> </u>								
					·					
		·			·					
<sup>1</sup> Type: C=Co	oncentration, D=Dep	letion, RM	Reduced Matrix, N	MS=Mas	ked Sand	I Grains.	2	Location: PL=Pore	Lining, M=Ma	atrix.
Hydric Soil	Indicators:						l	ndicators for Prob	lematic Hydı	ric Soils <sup>3</sup> :
Histosol			Polyvalue Belo	ow Surfa	ace (S8) (I	LRR R.		2 cm Muck (A10	-	
	oipedon (A2)				( - / (	,	_	Coast Prairie Re		
	stic (A3)		Thin Dark Surf	,		MIRA	149B)	5 cm Mucky Pea		
	n Sulfide (A4)		High Chroma S					Polyvalue Below		
				-			-		-	
	d Layers (A5)	. (444)	Loamy Mucky			<b>Κ Ν, Ε</b> )	_	Thin Dark Surfa		
	d Below Dark Surface	e(A11)	Loamy Gleyed		(F2)		_			2) ( <b>LRR K, L, R</b> )
	ark Surface (A12)		Depleted Matri				_			19) ( <b>MLRA 149B</b> )
	lucky Mineral (S1)		Redox Dark S	-	-		_			44A, 145, 149B)
Sandy G	Bleyed Matrix (S4)		Depleted Dark	Surface	e (F7)			Red Parent Mate	erial (F21)	
Sandy R	Redox (S5)		Redox Depres	sions (F	8)		_	Very Shallow Da	ark Surface (F	-22)
Stripped	Matrix (S6)		Marl (F10) (LR	RR K, L)			_	Other (Explain ir	n Remarks)	
Dark Su	rface (S7)									
<sup>3</sup> Indicators o	f hydrophytic vegetat	tion and we	etland hydrology m	ust be p	resent, ur	nless dist	turbed or p	roblematic.		
	Layer (if observed):		, ,,							
Type:										
Depth (II	nches):						Hydric	Soil Present?	Yes	NoX
Remarks:							-			
Ground froze	en so soils not docum	nented.								



Upland G-R-X1-SSS - View facing south

Package 1C

# SITE PHOTOGRAPHS

Project/Site: CHPE		City/County: Whitehall/W	Vashington	5	Sampling Date: <u>1/</u>	5/22
Applicant/Owner: TDI			State:	NY	Sampling Point:	G-R-X1-OO Wet
Investigator(s): N. Frazer, J. Greaves		Section, Townsl	hip, Range:			
Landform (hillside, terrace, etc.): flat	Loc	al relief (concave, convex, no	one): none		Slope %	: 0
Subregion (LRR or MLRA): LRR R	Lat:	Long:			Datum:	
Soil Map Unit Name: Limerick silt loam (Lm)			NWI classific	cation:	PFO	
Are climatic / hydrologic conditions on the site typic	al for this time of year	Yes x	No (	(If no, ex	plain in Remarks.)	
Are Vegetation, Soil, or Hydrology	significantly dist	urbed? Are "Normal C	Circumstances	s" preser	nt? Yes <u>x</u> N	00
Are Vegetation, Soil, or Hydrology	naturally problem	matic? (If needed, ex	plain any ans	wers in F	Remarks.)	
SUMMARY OF FINDINGS – Attach site	map showing sa	mpling point location	is, transect	ts, imp	oortant features	s, etc.
Hydrophytic Vegetation Present? Yes	X No	Is the Sampled Area				
Hydric Soil Present? Yes	X No	within a Wetland?	Yes	Х	No	
Wetland Hydrology Present? Yes	<u>X</u> No	If yes, optional Wetlan	d Site ID:			

Remarks: (Explain alternative procedures here or in a separate report.)

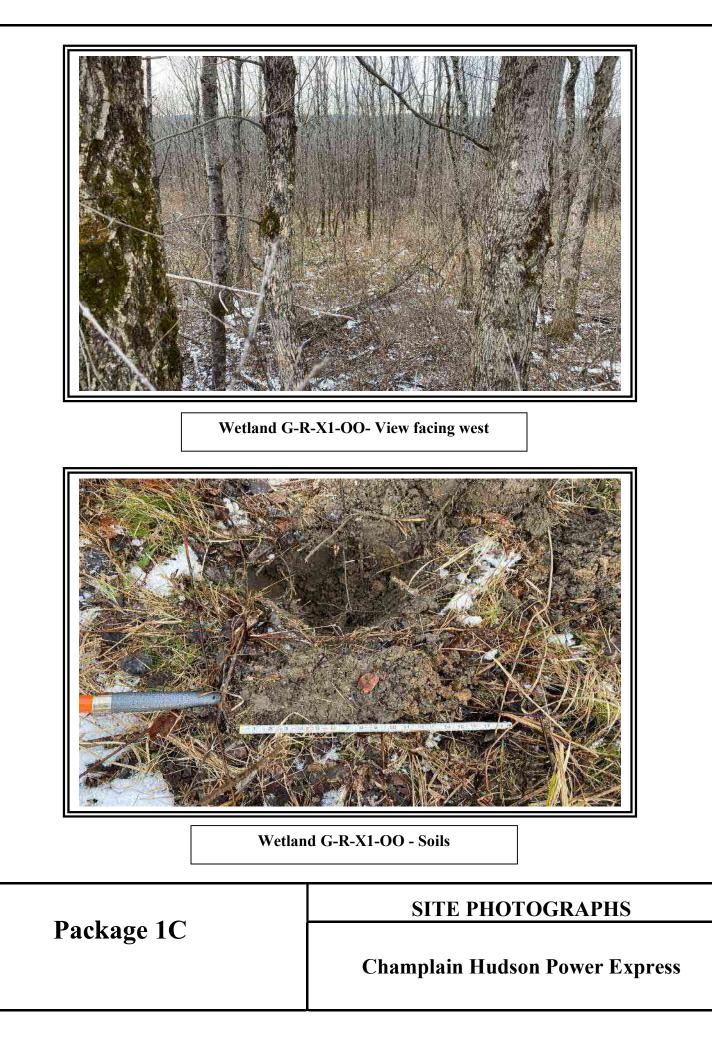
Wetland Hydrology Indicators:					Secondary Indicators (minimum of two required)			
Primary Indicators (minimum of or	Surface Soil Cracks (B6)							
X Surface Water (A1)	Drainage Patterns (B10)							
High Water Table (A2)		X Moss Trim Lines (B16)						
Saturation (A3)		Marl De	posits (B15)		Dry-Season Water Table (C2)			
Water Marks (B1)		Hydroge	en Sulfide Odor (C1)		Crayfish Burrows (C8)			
Sediment Deposits (B2)		Oxidized	d Rhizospheres on Living Ro	oots (C3)	Saturation Visible on Aerial Imagery (C9)			
Drift Deposits (B3)		Presence	ce of Reduced Iron (C4)		Stunted or Stressed Plants (D1)			
Algal Mat or Crust (B4)		Recent	Iron Reduction in Tilled Soils	s (C6)	Geomorphic Position (D2)			
Iron Deposits (B5)		Thin Mu	ick Surface (C7)		Shallow Aquitard (D3)			
Inundation Visible on Aerial In	nagery (B7)	Other (E	Explain in Remarks)		Microtopographic Relief (D4)			
Sparsely Vegetated Concave	Surface (B8	)			X FAC-Neutral Test (D5)			
Field Observations:								
Surface Water Present? Yes	х	No	Depth (inches): 0.5					
Water Table Present? Yes		No x	Depth (inches):					
Saturation Present? Yes	x	No	Depth (inches): 0	Wetlan	d Hydrology Present? Yes X No			
	X		Depth (inches): 0	Wetlan	d Hydrology Present? Yes X No			
Saturation Present? Yes		No	· · · <u> </u>		· · · · · · · · · · · · · · · · · · ·			
Saturation Present? Yes (includes capillary fringe)		No	· · · <u> </u>		· · · · · · · · · · · · · · · · · · ·			
Saturation Present? Yes (includes capillary fringe)		No	· · · <u> </u>		· · · · · · · · · · · · · · · · · · ·			
Saturation Present? Yes (includes capillary fringe)		No	· · · <u> </u>		· · · · · · · · · · · · · · · · · · ·			
Saturation Present? Yes (includes capillary fringe) Describe Recorded Data (stream		No	· · · <u> </u>		· · · · · · · · · · · · · · · · · · ·			
Saturation Present? Yes (includes capillary fringe) Describe Recorded Data (stream		No	· · · <u> </u>		· · · · · · · · · · · · · · · · · · ·			
Saturation Present? Yes (includes capillary fringe) Describe Recorded Data (stream		No	· · · <u> </u>		· · · · · · · · · · · · · · · · · · ·			
Saturation Present? Yes (includes capillary fringe) Describe Recorded Data (stream		No	· · · <u> </u>		· · · · · · · · · · · · · · · · · · ·			
Saturation Present? Yes (includes capillary fringe) Describe Recorded Data (stream		No	· · · <u> </u>		· · · · · · · · · · · · · · · · · · ·			
Saturation Present? Yes (includes capillary fringe) Describe Recorded Data (stream		No	· · · <u> </u>		· · · · · · · · · · · · · · · · · · ·			
Saturation Present? Yes (includes capillary fringe) Describe Recorded Data (stream		No	· · · <u> </u>		· · · · · · · · · · · · · · · · · · ·			
Saturation Present? Yes (includes capillary fringe) Describe Recorded Data (stream		No	· · · <u> </u>		· · · · · · · · · · · · · · · · · · ·			

Sampling Point: 3-R-X1-OO We

VEGETATION - Use scientific harnes of	•			Sampling Point: 3-R-X1-00 We
Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. Fraxinus pennsylvanica	75	Yes	FACW	Number of Dominant Species
2. Populus deltoides	8	No	FAC	That Are OBL, FACW, or FAC:3 (A)
3.       4.				Total Number of Dominant Species Across All Strata: <u>4</u> (B)
5.           6.		·		Percent of Dominant Species That Are OBL, FACW, or FAC:(A/B)
7				Prevalence Index worksheet:
	83	=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15'	_)			OBL species65 x 1 =65
1. Fraxinus pennsylvanica		Yes	FACW	FACW species <u>107</u> x 2 = <u>214</u>
2. Lonicera tatarica	20	Yes	FACU	FAC species 13 x 3 = 39
3. Rhamnus cathartica	5	No	FAC	FACU species x 4 = 80
4.				UPL species 0 x 5 = 0
5				Column Totals: 205 (A) 398 (B)
6				Prevalence Index = B/A =1.94
7.	_			Hydrophytic Vegetation Indicators:
	55	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5')		-		X 2 - Dominance Test is >50%
1. Carex stricta	65	Yes	OBL	X 3 - Prevalence Index is $\leq 3.0^{1}$
2. Onoclea sensibilis	2	<u> </u>	FACW	4 - Morphological Adaptations <sup>1</sup> (Provide supportin
3.				data in Remarks or on a separate sheet)
		·		
4		- <u> </u>		Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5				<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
7.		- <u> </u>		Definitions of Vegetation Strata:
8.				<b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in
9		<u> </u>		diameter at breast height (DBH), regardless of height.
10 11		·		<b>Sapling/shrub</b> – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
12	67	=Total Cover		<b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum         (Plot size:30'           1.	_)			Woody vines – All woody vines greater than 3.28 ft in height.
2.				
3.				Hydrophytic
4.				Vegetation Present? Yes X No
		=Total Cover		
Remarks: (Include photo numbers here or on a se	eparate sheet.)			

## SOIL

Profile Desc	ription: (Describe	to the de	pth needed to docu	ument ti	he indica	tor or c	onfirm the absence of indi	cators.)
Depth	Matrix		Redox	x Featur	es			
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-11	10YR 4/2	98	7.5YR 3/4	2	С	M	Loamy/Clayey [	Distinct redox concentrations
11-16	7.5YR 5/2	55	7.5YR 4/6	45	<u> </u>	M	Loamy/Clayey Pr	ominent redox concentrations
<sup>1</sup> Type: C=Co	oncentration, D=Depl	etion, RN	/	IS=Mas	ked Sand	Grains.	<sup>2</sup> Location: PL=Po	re Lining, M=Matrix.
Hydric Soil I	indicators:							blematic Hydric Soils <sup>3</sup> :
Histosol	(A1)		Polyvalue Belo	w Surfa	ce (S8) (	LRR R,	2 cm Muck (A	10) ( <b>LRR K, L, MLRA 149B</b> )
Histic Ep	pipedon (A2)		MLRA 149B	)			? Coast Prairie I	Redox (A16) ( <b>LRR K, L, R</b> )
Black His			Thin Dark Surfa	, ace (S9	) ( <b>LRR R</b>	MLRA		eat or Peat (S3) (LRR K, L, R)
	n Sulfide (A4)		High Chroma S					ow Surface (S8) ( <b>LRR K, L</b> )
	Layers (A5)		Loamy Mucky I					face (S9) ( <b>LRR K, L</b> )
	Below Dark Surface	(111)				( <b>N</b> , <b>L</b> )		
		e (ATT)	Loamy Gleyed		ΓΖ)			se Masses (F12) (LRR K, L, R)
I ——	ark Surface (A12)		X Depleted Matrix		-0)			odplain Soils (F19) ( <b>MLRA 149B</b> )
	lucky Mineral (S1)		Redox Dark Su	•	,			(TA6) ( <b>MLRA 144A, 145, 149B</b> )
	leyed Matrix (S4)		Depleted Dark				Red Parent Ma	· · · ·
	edox (S5)		Redox Depress		8)			Dark Surface (F22)
	Matrix (S6) face (S7)		Marl (F10) ( <b>LR</b>	<b>r k</b> , L)			Other (Explain	in Remarks)
<sup>3</sup> Indiantara at	f hudronhutio vogotot	ion and w	ustland hydrology my	ist he m	coopt u	loop diat	urbad as problematic	
	_ayer (if observed):		velianu nyurology mu	ist be pi	esent, u		urbed or problematic.	
Type:	non							
Depth (ir							Hydric Soil Present?	Yes_X_No
Remarks:								
This data for			ll and Northeast Regi .usda.gov/Internet/FS					eld Indicators of Hydric Soils,
			0	_			,	



Project/Site: CHPE	City/County: Whitehall/Washington Sampling Date: 1/5/22
Applicant/Owner: TDI	State: NY Sampling Point: G-R-X1-OO UP
Investigator(s): N. Frazer, J. Greaves	Section, Township, Range:
Landform (hillside, terrace, etc.): flat Local Local	relief (concave, convex, none): none Slope %: 0
Subregion (LRR or MLRA): LRR R Lat:	Long: Datum:
Soil Map Unit Name: Limerick silt loam (Lm)	NWI classification: N/A
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes x No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrologysignificantly disturb	Ded? Are "Normal Circumstances" present? Yes x No
Are Vegetation, Soil, or Hydrologynaturally problema	tic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sam	pling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes	No X	Is the Sampled Area within a Wetland? Yes No X If yes, optional Wetland Site ID:
Hydric Soil Present?	Yes	No X	
Wetland Hydrology Present?	Yes	No X	
Remarks: (Explain alternative procedu Ballast/ Successional Old Field	ires here or in a s	separate report.)	

Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)		
Primary Indicators (minimum of one is requir	ed; check all that apply)	Surface Soil Cracks (B6)		
Surface Water (A1)	Water-Stained Leaves (B9)	Drainage Patterns (B10)		
High Water Table (A2)	Aquatic Fauna (B13)	Moss Trim Lines (B16)		
Saturation (A3)	Marl Deposits (B15)	Dry-Season Water Table (C2)		
Water Marks (B1)	Crayfish Burrows (C8)			
Sediment Deposits (B2)	Sediment Deposits (B2)         Oxidized Rhizospheres on Living Roots (C3)			
Drift Deposits (B3)	Presence of Reduced Iron (C4)	Stunted or Stressed Plants (D1)		
Algal Mat or Crust (B4)	Recent Iron Reduction in Tilled Soils (C	C6) Geomorphic Position (D2)		
Iron Deposits (B5)	Thin Muck Surface (C7)	? Shallow Aquitard (D3)		
Inundation Visible on Aerial Imagery (B7	Microtopographic Relief (D4)			
Sparsely Vegetated Concave Surface (E	38)	FAC-Neutral Test (D5)		
Field Observations:				
Surface Water Present? Yes	No x Depth (inches):			
Water Table Present? Yes	No x Depth (inches):			
	Netland Hydrology Present? Yes No X			
Saturation Present? Yes	No x Depth (inches):	Wetland Hydrology Present? Yes <u>No X</u>		
Saturation Present? Yes (includes capillary fringe)	No x Depth (inches):	Wetland Hydrology Present? Yes <u>No X</u>		
(includes capillary fringe)	No x Depth (inches):			
(includes capillary fringe)				
(includes capillary fringe) Describe Recorded Data (stream gauge, mo				
(includes capillary fringe)				
(includes capillary fringe) Describe Recorded Data (stream gauge, mo				
(includes capillary fringe) Describe Recorded Data (stream gauge, mo				
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(includes capillary fringe) Describe Recorded Data (stream gauge, mo				
(includes capillary fringe) Describe Recorded Data (stream gauge, mo				

Sampling Point: G-R-X1-OO Up

Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
<ol> <li>Betula populifolia</li> <li>2.</li> </ol>	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: 4 (B)
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 50.0% (A/B)
7.				Prevalence Index worksheet:
		=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15')				OBL species 0 x 1 = 0
1. Lonicera tatarica	10	Yes	FACU	FACW species $0   x 2 = 0$
2. Prunus serotina	2	No	FACU	FAC species 35 x 3 = 105
3.				FACU species 67 x 4 = 268
4.				UPL species 5 x 5 = 25
5.				Column Totals: 107 (A) 398 (B)
6				Prevalence Index = $B/A = 3.72$
7				Hydrophytic Vegetation Indicators:
<i>I</i>	12	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5')				2 - Dominance Test is >50%
1. Setaria pumila	25	Yes	FAC	$3 - Prevalence Index is \leq 3.0^1$
	50	Yes	FACU	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
Schizachynum scopanum     Schizachynum scopanum     Schizachynum scopanum     Schizachynum scopanum	5	No	UPL	data in Remarks or on a separate sheet)
				Droblemetic Llydrophytic Verstation <sup>1</sup> (Evaluin)
4. Fragaria virginiana	5	No	FACU	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
6				be present, unless disturbed or problematic.
7				Definitions of Vegetation Strata:
8				Tree – Woody plants 3 in. (7.6 cm) or more in
9				diameter at breast height (DBH), regardless of height.
10 11				<b>Sapling/shrub</b> – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
12				Harb All berbasseus (non woods) plants, regardlass
	85	=Total Cover		<b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size:30')				Woody vines – All woody vines greater than 3.28 ft in
1				height.
2				
3.				Hydrophytic Vegetation
4.				Present? Yes No X
		=Total Cover		
Remarks: (Include photo numbers here or on a sepa	rate sheet.)			
	,			

	ription: (Describe	to the de				tor or co	onfirm the absence o	of indicate	ors.)	
Depth	Matrix			x Featur						
(inches)	Color (moist)	%	Color (moist)		Type <sup>1</sup>	Loc <sup>2</sup>	Texture		Remar	ks
<sup>1</sup> Type: C=Co	oncentration, D=Dep	letion, RM	=Reduced Matrix, N	/IS=Mas	ked Sand	I Grains.	<sup>2</sup> Location: I	PL=Pore L	ining, M=Ma	trix.
Hydric Soil	Indicators:						Indicators	for Proble	matic Hydri	c Soils <sup>3</sup> :
Histosol	(A1)		Polyvalue Belo	w Surfa	ce (S8) (I	LRR R,	2 cm M	uck (A10)	(LRR K, L, I	MLRA 149B)
	pipedon (A2)		MLRA 149B		. , .				lox (A16) ( <b>LF</b>	
Black Hi			Thin Dark Surf	ace (S9	) ( <b>LRR R</b>	MLRA 1				(LRR K, L, R)
	n Sulfide (A4)		High Chroma S					-	Surface (S8)	
	Layers (A5)		Loamy Mucky						e (S9) ( <b>LRR</b>	
	Below Dark Surface	e (A11)	Loamy Gleyed			, ,				) (LRR K, L, R)
	ark Surface (A12)	- ( )	Depleted Matri		/			-		9) ( <b>MLRA 149B</b>
	lucky Mineral (S1)		Redox Dark Su		-6)				-	44A, 145, 149B)
	leyed Matrix (S4)		Depleted Dark					rent Mater		,,
	edox (S5)		Redox Depres						k Surface (F	22)
	Matrix (S6)		Marl (F10) (LR	`	0)			Explain in I	-	<i></i> )
	rface (S7)			, L)					i ternarita j	
<sup>3</sup> Indicators of	f hydrophytic vegetat	tion and w	etland hydrology m	ist ha ni	resent ur	less dist	urbed or problematic.			
	Layer (if observed):		elland hydrology mi	ust be pi	iesent, ui	liess dist				
Type:	balla									
•										
Depth (ir	nches):	0					Hydric Soil Prese	ent?	Yes	<u>No X</u>
Remarks:										
							2.0 to include the NR	CS Field I	ndicators of	Hydric Soils,
	2015 Errata. (http://v	ww.nrcs.u	usda.gov/Internet/F	SE_DOO	CUMENT	S/nrcs14	2p2_051293.docx)			
Ballast- no s	OIIS									



Upland G-R-X1-OO- View facing south

Package 1C

# SITE PHOTOGRAPHS

Project/Site: CHPE		City/County: Whitehall/Washington Sampling Date: 1/5/22				
Applicant/Owner: TDI		State: NY Sampling Point: GRX1-A				
nvestigator(s): N. Frazer, J. GreavesSection, Township, Range:						
Landform (hillside, terrace, etc.): de	Local relief (concave, convex, none): concave Slope %: 0					
Subregion (LRR or MLRA): LRR R	Lat:	: Long: Datum:				
Soil Map Unit Name: Limerick silt loa	m (Lm)	NWI classification: PSS				
Are climatic / hydrologic conditions on	the site typical for	r this time of year? Yes x No (If no, explain in Remarks.)				
Are Vegetation, Soil, o	r Hydrology	_significantly disturbed? Are "Normal Circumstances" present? Yes x No				
Are Vegetation, Soil, o	r Hydrology	naturally problematic? (If needed, explain any answers in Remarks.)				
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.						
Hydrophytic Vegetation Present?	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.)						

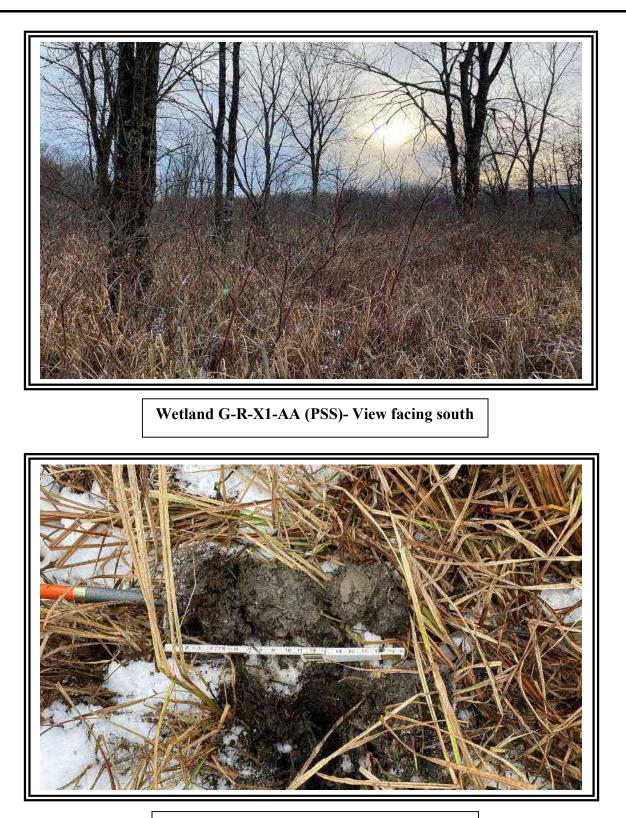
Wetland Hydrology Indicators:			Secondary Indicators (minimum of two required)		
Primary Indicators (minimum of one is require	Surface Soil Cracks (B6)				
X Surface Water (A1)	Water-Stained Leaves (B9)		Drainage Patterns (B10)		
X High Water Table (A2)	Aquatic Fauna (B13)	Moss Trim Lines (B16)			
X Saturation (A3)	Marl Deposits (B15)		Dry-Season Water Table (C2)		
Water Marks (B1)	Hydrogen Sulfide Odor (C1)	-	Crayfish Burrows (C8)		
Sediment Deposits (B2)	X Oxidized Rhizospheres on Living Ro	ots (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	s (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 (B	8)		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): 8				
Saturation Present? Yes x					
(includes capillary fringe)					
(includes capillary ininge)					
Describe Recorded Data (stream gauge, mor	nitoring well, aerial photos, previous inspe	ctions), if a	vailable:		
	nitoring well, aerial photos, previous inspe	ctions), if a	vailable:		
Describe Recorded Data (stream gauge, mor	nitoring well, aerial photos, previous inspe	ctions), if a	vailable:		
	nitoring well, aerial photos, previous inspe	ctions), if a	vailable:		
Describe Recorded Data (stream gauge, mor	nitoring well, aerial photos, previous inspe	ctions), if a	vailable:		
Describe Recorded Data (stream gauge, mor	nitoring well, aerial photos, previous inspe	ctions), if a	vailable:		
Describe Recorded Data (stream gauge, mor	nitoring well, aerial photos, previous inspe	ctions), if a	vailable:		
Describe Recorded Data (stream gauge, mor	nitoring well, aerial photos, previous inspe	ctions), if a	vailable:		
Describe Recorded Data (stream gauge, mor	nitoring well, aerial photos, previous inspe	Lotions), if a	vailable:		
Describe Recorded Data (stream gauge, mor	nitoring well, aerial photos, previous inspe	L ctions), if a	vailable:		
Describe Recorded Data (stream gauge, mor	nitoring well, aerial photos, previous inspe	L ctions), if a	vailable:		
Describe Recorded Data (stream gauge, mor	nitoring well, aerial photos, previous inspe	ctions), if a	vailable:		

Sampling Point: G-R-X1-AA We

Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant	Indicator Status	Dominance Test worksheet:
/	40	Species? Yes	FACW	
1. Fraxinus pennsylvanica	40	res	FACW	Number of Dominant Species
2				That Are OBL, FACW, or FAC:3(A)
3				Total Number of Dominant
4				Species Across All Strata:3(B)
5				Percent of Dominant Species
6				That Are OBL, FACW, or FAC: 100.0% (A/B)
7				Prevalence Index worksheet:
	40	=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15')				OBL species X 1 =75
1. Cornus alba	55	Yes	FACW	FACW species <u>116</u> x 2 = <u>232</u>
2. Cornus racemosa	5	No	FAC	FAC species5 x 3 =5
3. Fraxinus pennsylvanica	6	No	FACW	FACU species x 4 =
4				UPL species x 5 =
5				Column Totals: 196 (A) 322 (B)
6				Prevalence Index = B/A = 1.64
7				Hydrophytic Vegetation Indicators:
	66	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size:5')				X 2 - Dominance Test is >50%
1. Symphyotrichum novae-angliae	15	No	FACW	<u>X</u> 3 - Prevalence Index is $\leq 3.0^{1}$
2. Carex lacustris	75	Yes	OBL	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
3.				data in Remarks or on a separate sheet)
4.				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5.				
6.				<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
7.				Definitions of Vegetation Strata:
8.				
9.				<b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
10.				
				<b>Sapling/shrub</b> – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
11				
12	90	=Total Cover		<b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
Weedy Vine Stratum (Districe, 201)				of size, and woody plants less than 5.20 it tall.
Woody Vine Stratum (Plot size: 30')				<b>Woody vines</b> – All woody vines greater than 3.28 ft in
1				height.
2				Hydrophytic
3				Vegetation
4				Present? Yes X No
		=Total Cover		
Remarks: (Include photo numbers here or on a sepa	rate sheet.)			

## SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth	Matrix		Redox	x Featur				
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-5	10YR 2/1	65	7.5YR 4/6	35	C	M	Loamy/Clayey	Prominent redox concentrations
5-16	5GY 5/1	85	7.5YR 5/8	15	<u>C</u>	PL	Loamy/Clayey	Prominent redox concentrations
<sup>1</sup> Type: C=Co	ncentration, D=Depl	etion, RM	/=Reduced Matrix, M	IS=Mas	ked Sand	Grains.	<sup>2</sup> Location: F	PL=Pore Lining, M=Matrix.
Hydric Soil I								or Problematic Hydric Soils <sup>3</sup> :
Histosol (	Histosol (A1) Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B)						uck (A10) ( <b>LRR K, L, MLRA 149B</b> )	
Histic Ep	Histic Epipedon (A2) MLRA 149B) ? Coast Prairie Redox (A16) (LRR K, L, R)						rairie Redox (A16) ( <b>LRR K, L, R</b> )	
Black His	Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R					ucky Peat or Peat (S3) ( <b>LRR K, L, R</b> )		
	Hydrogen Sulfide (A4)     High Chroma Sands (S11) (LRR K, L)     Polyvalue Below Surface (S8) (LRR K, L)							
Stratified Layers (A5) Loamy Mucky Mineral (F1) (LRR K, L) Thin Dark Surface (S9) (LRR K, L)								
	X Depleted Below Dark Surface (A11) X Loamy Gleyed Matrix (F2) Iron-Manganese Masses (F12) (LRR K, L							
	rk Surface (A12)	(,)	Depleted Matrix		)			nt Floodplain Soils (F19) ( <b>MLRA 149B</b> )
	ucky Mineral (S1)		X Redox Dark Su		6)			podic (TA6) ( <b>MLRA 144A, 145, 149B</b> )
	eyed Matrix (S4)		Depleted Dark	•	'			rent Material (F21)
Sandy Re	• • • •		? Redox Depress					allow Dark Surface (F22)
	Matrix (S6)		Marl (F10) (LR		5)			Explain in Remarks)
Dark Sur				IX IX, E)				
<sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.								
Type:	ayer (if observed): none	-						
							Hydric Soil Prese	nt? Yes X No
Remarks: This data form is revised from Northcentral and Northeast Regional Supplement Version 2.0 to include the NRCS Field Indicators of Hydric Soils,								
Version 7.0, 2015 Errata. (http://www.nrcs.usda.gov/Internet/FSE_DOCUMENTS/nrcs142p2_051293.docx)								



Wetland G-R-X1-AA (PSS)- Soils

Package 1C

# SITE PHOTOGRAPHS

Project/Site: CHPE	City/County: Whitehall/Washington Sampling Date: 1/5/22
Applicant/Owner: TDI	State: NY Sampling Point: G-R-X1-AA Wet
Investigator(s): N. Frazer, J. Greaves	Section, Township, Range:
Landform (hillside, terrace, etc.): depression	Local relief (concave, convex, none): <u>concave</u> Slope %: 0
Subregion (LRR or MLRA): LRR R	Lat: Datum:
Soil Map Unit Name: Limerick silt loam (Lm)	NWI classification: PEM
Are climatic / hydrologic conditions on the site typ	pical for this time of year? Yes x No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrolog	ysignificantly disturbed? Are "Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrolog	ynaturally problematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach sit	te map showing sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Ye	es X No Is the Sampled Area
Hydric Soil Present? Ye	es X No within a Wetland? Yes X No
Wetland Hydrology Present? Ye	es X No If yes, optional Wetland Site ID:
Remarks: (Explain alternative procedures here	or in a separate report.)

Wetland Hydrology Indicators:			Secondary Indicators (minimum of two required)		
Primary Indicators (minimum of one is requir	Surface Soil Cracks (B6)				
X Surface Water (A1)	Water-Stained Leaves (B9)		Drainage Patterns (B10)		
X High Water Table (A2)	Aquatic Fauna (B13)		Moss Trim Lines (B16)		
X Saturation (A3)	Marl Deposits (B15)		Dry-Season Water Table (C2)		
Water Marks (B1)	Hydrogen Sulfide Odor (C1)		Crayfish Burrows (C8)		
Sediment Deposits (B2)	X Oxidized Rhizospheres on Living Ro	oots (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 Soil	s (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 (B	8)		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): 8				
Saturation Present? Yes x	No Depth (inches): 0	Wetlan	d Hydrology Present? Yes X No		
(includes capillary fringe)					
	nitoring well serial photos, previous inspections), if available:				
Describe Recorded Data (stream gauge, mo	nitoring well, aerial photos, previous inspe	ections), if	available:		
Describe Recorded Data (stream gauge, mo	nitoring well, aerial photos, previous inspe	ections), if	available:		
	nitoring well, aerial photos, previous inspe	ctions), if	available:		
Describe Recorded Data (stream gauge, mo Remarks:	nitoring well, aerial photos, previous inspe	ections), if a	available:		
	nitoring well, aerial photos, previous inspe	ections), if a	available:		
	nitoring well, aerial photos, previous inspe	Lections), if a	available:		
	nitoring well, aerial photos, previous inspe	Lections), if a	available:		
	nitoring well, aerial photos, previous inspe	Lections), if a	available:		
	nitoring well, aerial photos, previous inspe	Lections), if a	available:		
	nitoring well, aerial photos, previous inspe	Lections), if a	available:		
	nitoring well, aerial photos, previous inspe	Lections), if a	available:		
	nitoring well, aerial photos, previous inspe	Lections), if a	available:		

Sampling Point: G-R-X1-AA We

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: <u>3</u> (B)
5 6				Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)
7				Prevalence Index worksheet:
		=Total Cover		Total % Cover of:Multiply by:
Sapling/Shrub Stratum (Plot size: 15' )				OBL species X 1 = 100
1. Cornus alba	5	Yes	FACW	FACW species 15 x 2 = 30
2. Cornus racemosa	2	Yes	FAC	FAC species x 3 =6
3				FACU species x 4 =
4				UPL species x 5 =
5				Column Totals: 117 (A) 136 (B)
6				Prevalence Index = B/A =1.16
7				Hydrophytic Vegetation Indicators:
	7	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5')				X 2 - Dominance Test is >50%
1. Lythrum salicaria	2	No	OBL	X 3 - Prevalence Index is $\leq 3.0^1$
2. Onoclea sensibilis	5	No	FACW	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
3. Symphyotrichum novae-angliae	5	No	FACW	data in Remarks or on a separate sheet)
4. Carex lacustris	98	Yes	OBL	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5.				<sup>1</sup> Indiastors of hydric soil and watland hydrology must
6.				<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
7.				Definitions of Vegetation Strata:
8.				Tree Weedy plants 2 in (7.6 cm) or more in
9.				<b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
10.				
11.				<b>Sapling/shrub</b> – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
12	110	=Total Cover		<b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum         (Plot size:30')           1.				<b>Woody vines</b> – All woody vines greater than 3.28 ft in height.
2.				
3.				Hydrophytic Monstation
4.				Vegetation Present? Yes X No
		=Total Cover		
Remarks: (Include photo numbers here or on a sepa	rate sheet.)			
	,			

## SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth	Matrix		Redox	x Featur				
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-5	10YR 2/1	65	7.5YR 4/6	35	C	M	Loamy/Clayey	Prominent redox concentrations
5-16	5GY 5/1	85	7.5YR 5/8	15		PL	Loamy/Clayey	Prominent redox concentrations
							·	
		etion, RN	/I=Reduced Matrix, N	IS=Mas	ked Sand	l Grains.		PL=Pore Lining, M=Matrix.
Hydric Soil II			Daharahar Daha	0				or Problematic Hydric Soils <sup>3</sup> :
Histosol (			Polyvalue Belo		ce (S8) (I	LRR R,		uck (A10) ( <b>LRR K, L, MLRA 149B</b> )
	pedon (A2)		MLRA 149B) Thin Dark Surfa	,		MIDA		rairie Redox (A16) ( <b>LRR K, L, R</b> )
Black His					-			ucky Peat or Peat (S3) (LRR K, L, R)
	n Sulfide (A4)		High Chroma S					ue Below Surface (S8) (LRR K, L)
	Layers (A5) Below Dark Surface	(11)	Loamy Mucky I X Loamy Gleyed			κ κ, L)		rk Surface (S9) ( <b>LRR K, L</b> ) nganese Masses (F12) ( <b>LRR K, L, R</b> )
	rk Surface (A12)	(ATT)	Depleted Matrix		- 2)			nt Floodplain Soils (F19) ( <b>MLRA 149B</b> )
	ucky Mineral (S1)		X Redox Dark Su		6)			podic (TA6) ( <b>MLRA 144A, 145, 149B</b> )
	eyed Matrix (S4)		Depleted Dark	•	'			rent Material (F21)
Sandy Re	• • • • •		? Redox Depress					allow Dark Surface (F22)
	Matrix (S6)		Marl (F10) (LR		5)			Explain in Remarks)
Dark Sur				IX IX, E/				
	( ),							
<sup>3</sup> Indicators of	hydrophytic vegetati	on and v	vetland hydrology mu	ist be pr	esent, ur	nless dist	turbed or problematic.	
	ayer (if observed):							
Type: _	none	9						
Depth (in	ches):						Hydric Soil Prese	nt? Yes <u>X</u> No
Remarks:								
			l and Northeast Regi .usda.gov/Internet/FS					CS Field Indicators of Hydric Soils,
			lacal.get/internet/					



Wetland G-R-X1-AA (PEM)- View facing west



Wetland G-R-X1-AA (PEM) - Soils

Package 1C

## SITE PHOTOGRAPHS

**Champlain Hudson Power Express** 

Project/Site: CHPE	City/County: Whitehall/Washington Sampling Date: 1/5/22
Applicant/Owner: TDI	State: NY Sampling Point: G-R-X1-AA Up
Investigator(s): N. Frazer, J. Greaves	Section, Township, Range:
Landform (hillside, terrace, etc.): hillslope Loc	al relief (concave, convex, none): none Slope %: 2
Subregion (LRR or MLRA): LRR R Lat:	Long: Datum:
Soil Map Unit Name: Limerick silt loam (Lm)	NWI classification: N/A
Are climatic / hydrologic conditions on the site typical for this time of year'	Yes x No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrologysignificantly dist	urbed? Are "Normal Circumstances" present? Yes x No
Are Vegetation, Soil, or Hydrologynaturally problem	matic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sa	mpling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes	No X	Is the Sampled Area           within a Wetland?         Yes         NoX           If yes, optional Wetland Site ID:
Hydric Soil Present?	Yes	No X	
Wetland Hydrology Present?	Yes	No X	
Remarks: (Explain alternative procedu Railroad Embankment/ Upland Scrub S		• • • •	

Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)	
Primary Indicators (minimum of one is requi	red; check all that apply)	Surface Soil Cracks (B6)	
Surface Water (A1)	Water-Stained Leaves (B9)	Drainage Patterns (B10)	
High Water Table (A2)	Aquatic Fauna (B13) Moss Trim Lines (B16)		
Saturation (A3)	Marl Deposits (B15)	Dry-Season Water Table (C2)	
Water Marks (B1)	Hydrogen Sulfide Odor (C1)	Crayfish Burrows (C8)	
Sediment Deposits (B2)	Oxidized Rhizospheres on Living Roots (	(C3) Saturation Visible on Aerial Imagery (C9)	
Drift Deposits (B3)	Presence of Reduced Iron (C4)	Stunted or Stressed Plants (D1)	
Algal Mat or Crust (B4)	Recent Iron Reduction in Tilled Soils (C6	i) Geomorphic Position (D2)	
Iron Deposits (B5)	Thin Muck Surface (C7)	Shallow Aquitard (D3)	
Inundation Visible on Aerial Imagery (B	7) Other (Explain in Remarks)	Microtopographic Relief (D4)	
Sparsely Vegetated Concave Surface (	38)	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): W	/etland Hydrology Present? Yes No X	
(includes capillary fringe)			
Describe Recorded Data (stream gauge, mo	onitoring well, aerial photos, previous inspection	s), if available:	
Remarks:			

Sampling Point: G-R-X1-AA Up

	Absolute	Dominant	Indicator	Bandana Tatanakakat
<u>Tree Stratum</u> (Plot size: <u>30'</u> ) 1.	% Cover	Species?	Status	Dominance Test worksheet:
2.				Number of Dominant Species           That Are OBL, FACW, or FAC:         0         (A)
3				Total Number of Dominant
4				Species Across All Strata: 6 (B)
5				Percent of Dominant Species
6				That Are OBL, FACW, or FAC: 0.0% (A/B)
7				Prevalence Index worksheet:
		=Total Cover		Total % Cover of:Multiply by:
Sapling/Shrub Stratum (Plot size: 15')				OBL species x 1 =
1. Rhus typhina	25	Yes	UPL	FACW species <u>5</u> x 2 = <u>10</u>
2. Lonicera tatarica	15	Yes	FACU	FAC species x 3 =
3. Cornus alba	5	No	FACW	FACU species 50 x 4 = 200
4				UPL species x 5 =25
5				Column Totals: 80 (A) 335 (B)
6				Prevalence Index = B/A = 4.19
7				Hydrophytic Vegetation Indicators:
	45	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5' )				2 - Dominance Test is >50%
1. Cirsium arvense	8	Yes	FACU	3 - Prevalence Index is ≤3.0 <sup>1</sup>
2. Schizachyrium scoparium	15	Yes	FACU	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
3. Oenothera biennis	7	Yes	FACU	data in Remarks or on a separate sheet)
4.				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5.				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
6.				be present, unless disturbed or problematic.
7.				Definitions of Vegetation Strata:
8.				<b>Tree</b> – 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: 30')				Woody vines – All woody vines greater than 3.28 ft in
1. Vitis aestivalis	5	Yes	FACU	height.
2.				
3.				Hydrophytic Vegetation
4.				Present? Yes No X
	5	=Total Cover		
Remarks: (Include photo numbers here or on a separ	rate sheet.)			1
	,			

Depth	Matrix		Redox Features				_			
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Rema	arks	
					·					
					·					
					·					
								-		
		·			·					
					·					
					. <u> </u>					
<sup>1</sup> Type: C=Cc	oncentration, D=Dep	letion, RM	M=Reduced Matrix, N	/IS=Mas	ked Sand	l Grains.		L=Pore Lining, M=N		
Hydric Soil I	ndicators:						Indicators for	or Problematic Hyd	ric Soils <sup>3</sup> :	
Histosol	(A1)		Polyvalue Belo	w Surfa	ice (S8) (	LRR R,	2 cm Mu	ıck (A10) ( <b>LRR K, L</b>	MLRA 149B)	
Histic Ep	ipedon (A2)		MLRA 149B	)			Coast P	rairie Redox (A16) ( <b>I</b>	.RR K, L, R)	
Black His	stic (A3)		Thin Dark Surf	ace (S9	) (LRR R	, MLRA 1	<b>49B</b> )5 cm Mu	icky Peat or Peat (S	3) ( <b>LRR K, L, R</b> )	
Hydroger	n Sulfide (A4)		High Chroma S	Sands (S	511) ( <b>LRI</b>	R K, L)	Polyvalu	e Below Surface (S8	8) ( <b>LRR K, L</b> )	
Stratified	Layers (A5)		Loamy Mucky	Mineral	(F1) ( <b>LR</b>	R K, L)	Thin Dai	rk Surface (S9) ( <b>LRF</b>	R K, L)	
Depleted	Below Dark Surface	e (A11)	Loamy Gleyed	Matrix (	(F2)		Iron-Mar	nganese Masses (F1	2) (LRR K, L, R)	
Thick Da	rk Surface (A12)		Depleted Matri	x (F3)			Piedmor	nt Floodplain Soils (F	19) ( <b>MLRA 149</b>	
Sandy M	ucky Mineral (S1)		Redox Dark Su	urface (F	=6)		Mesic S	podic (TA6) ( <b>MLRA</b>	144A, 145, 149B	
Sandy G	leyed Matrix (S4)		Depleted Dark	Surface	e (F7)		Red Par	ent Material (F21)		
Sandy R	edox (S5)		Redox Depres	sions (F	8)		Very Sha	allow Dark Surface (	F22)	
Stripped	Matrix (S6)		Marl (F10) ( <b>LR</b>	R K, L)			Other (E	xplain in Remarks)		
Dark Sur	face (S7)									
<sup>3</sup> Indicators of	hydrophytic vegetat	tion and v	wetland hydrology mu	ust be p	resent, ur	nless distu	urbed or problematic.			
Restrictive L	ayer (if observed):									
Туре:	balla	ast								
Depth (in	iches):	0					Hydric Soil Prese	nt? Yes	No X	
Remarks:	·						-			
	m is revised from No	orthcentra	al and Northeast Reg	ional Si	Innlemen	t Version '	2.0 to include the NR	CS Field Indicators of	f Hydric Soils	
			.usda.gov/Internet/F						i riyane cone,	
Ballast- no so			0	—			,			



Upland G-R-X1-AA- View facing north

Package 1C

# SITE PHOTOGRAPHS

**Champlain Hudson Power Express** 

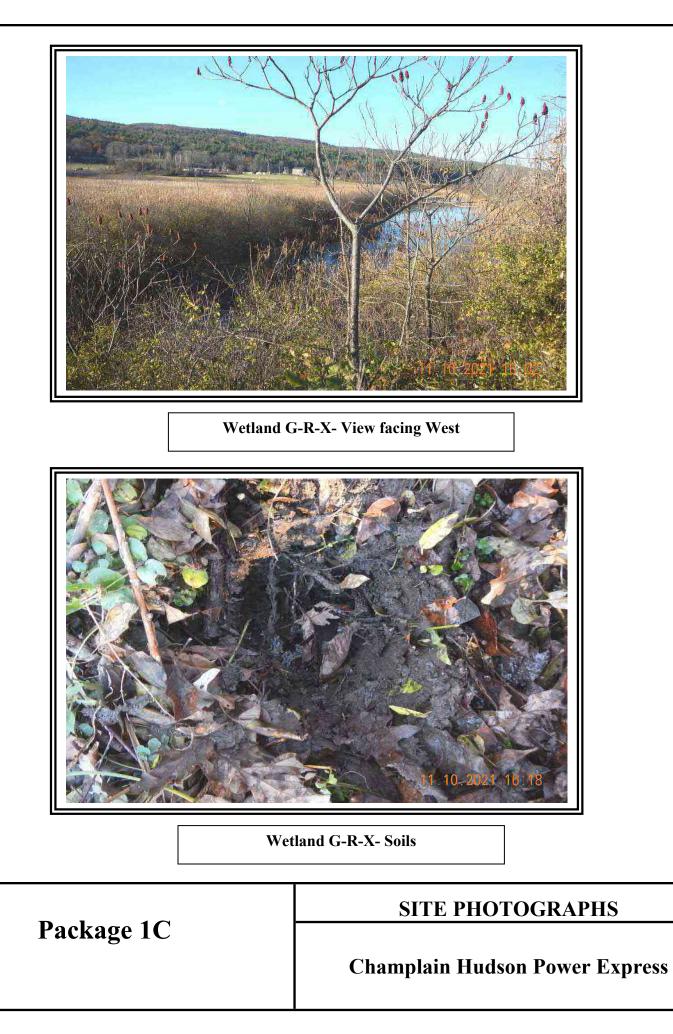
Project/Site: CHPE ·	- CP Rail - Wł	nitehall to Comst	ock Se	ection	City/County: Washir	igton		Sampling Date:	11/10/21
Applicant/Owner:	CHPE					State:	NY	Sampling Point:	GR-X-Wet
Investigator(s): KW, I	KS				Section, To	wnship, Range:	Whiteha	all	
Landform (hillside, terr	race, etc.):	Toeslope		Local re	elief (concave, conve	ex, none): <u>Conc</u> a	ave	Slope	%: 0
Subregion (LRR or ML	RA): LRR I	R, MLRA 144A	Lat: 4	43°,48',05.05"N	Long:	73°,42',90.84''	N	Datum:	
Soil Map Unit Name:	Kingsbury Si	ity Clay/Vergenr	nes Silty	y Clay Loam		NWI class	ification:	PEM, PFO/SS	
Are climatic / hydrolog	ic conditions	on the site typica	al for thi	is time of year?	Yes X	No	(lf no,	explain in Remarks	.)
Are Vegetation	, Soil	, or Hydrology	s	significantly disturbe	ed? Are "Norr	nal Circumstanc	es" pres	sent? Yes X	No
Are Vegetation	, Soil	, or Hydrology	n	naturally problemat	c? (If needed	d, explain any ai	nswers i	n Remarks.)	
SUMMARY OF F	INDINGS -	Attach site	map s	showing samp	ling point locat	ions, transe	cts, in	nportant feature	es, etc.
Hydrophytic Vegetati	on Present?	Yes	х	No	Is the Sampled A	rea			
Hydric Soil Present?		Yes	Х	No	within a Wetland	? Ye	s_X	No	
Wetland Hydrology F	Present?	Yes	Х	No	If yes, optional We	tland Site ID:			
Remarks: (Explain a	Iternative pro	cedures here or	in a sep	parate report.)					

Wetland Hydrology Indicators:	<u>Secondar</u>	y Indicators (minimum of two required)			
Primary Indicators (minimum of one is required; check all that apply)	ired; check all that apply) Surface Soil Cracks (B6)				
X Surface Water (A1) X Water-Stained Leaves (B9	X Drain	X Drainage Patterns (B10)			
High Water Table (A2) Aquatic Fauna (B13)	Aquatic Fauna (B13) Moss Trim Lines (B16)				
Saturation (A3) Marl Deposits (B15)	Dry-S	eason Water Table (C2)			
Water Marks (B1) Hydrogen Sulfide Odor (C	) Crayf	ish Burrows (C8)			
Sediment Deposits (B2) Oxidized Rhizospheres on	Living Roots (C3) Satur	ation Visible on Aerial Imagery (C9)			
Drift Deposits (B3) Presence of Reduced Iron	(C4) Stunt	ed or Stressed Plants (D1)			
Algal Mat or Crust (B4) Recent Iron Reduction in	illed Soils (C6) Geon	norphic Position (D2)			
Iron Deposits (B5) Thin Muck Surface (C7)					
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks	Micro	topographic Relief (D4)			
Sparsely Vegetated Concave Surface (B8)	X FAC-	Neutral Test (D5)			
Field Observations:					
Surface Water Present? Yes X No Depth (inches):	3				
water rable Present? Yes NO A Depth (inches).					
Water Table Present?     Yes     No     X     Depth (inches):       Saturation Present?     Yes     X     No     Depth (inches):	8 Wetland Hydrolo	gy Present? Yes X No			
	8 Wetland Hydrolo	gy Present? Yes <u>X</u> No			
Saturation Present? Yes X No Depth (inches):		gy Present? Yes <u>X</u> No			
Saturation Present? Yes X No Depth (inches): (includes capillary fringe)		gy Present? Yes <u>X</u> No			
Saturation Present?       Yes       X       No       Depth (inches):         (includes capillary fringe)		gy Present? Yes <u>X</u> No			
Saturation Present? Yes X No Depth (inches): (includes capillary fringe)		gy Present? Yes <u>X</u> No			
Saturation Present?       Yes       X       No       Depth (inches):         (includes capillary fringe)		gy Present? Yes <u>X</u> No			
Saturation Present?       Yes       X       No       Depth (inches):         (includes capillary fringe)		gy Present? Yes <u>X</u> No			
Saturation Present?       Yes       X       No       Depth (inches):         (includes capillary fringe)		gy Present? Yes <u>X</u> No			
Saturation Present?       Yes       X       No       Depth (inches):         (includes capillary fringe)		gy Present? Yes <u>X</u> No			
Saturation Present?       Yes       X       No       Depth (inches):         (includes capillary fringe)		gy Present? Yes <u>X</u> No			
Saturation Present?       Yes       X       No       Depth (inches):         (includes capillary fringe)		gy Present? Yes <u>X</u> No			
Saturation Present?       Yes       X       No       Depth (inches):         (includes capillary fringe)		gy Present? Yes <u>X</u> No			
Saturation Present?       Yes       X       No       Depth (inches):         (includes capillary fringe)		gy Present? Yes <u>X</u> No			

Sampling Point: GR-X-Wet

Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. Acer rubrum	15	Yes	FAC	
2. Populus deltoides	10	Yes	FAC	Number of Dominant SpeciesThat Are OBL, FACW, or FAC:7(A)
3. Acer saccharinum	5	No	FACW	
4. Acer negundo	5	No	FAC	Total Number of Dominant Species Across All Strata: 9 (B)
5. Ulmus americana	5	No	FACW	
6.				Percent of Dominant Species That Are OBL, FACW, or FAC:77.8% (A/B
7				Prevalence Index worksheet:
	40	=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15'	)			OBL species x 1 =
1. Rhus typhina	10	Yes	UPL	FACW species x 2 =
2. Salix nigra	5	Yes	OBL	FAC species x 3 =
3. Rhamnus cathartica	5	Yes	FAC	FACU species x 4 =
4. Lonicera tatarica	5	Yes	FACU	UPL species x 5 =
5. Staphylea trifolia	5	Yes	FAC	Column Totals: (A) (B
5.				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. Lythrum salicaria	15	Yes	OBL	3 - Prevalence Index is ≤3.0 <sup>1</sup>
2. Phalaris arundinacea	15	Yes	FACW	4 - Morphological Adaptations <sup>1</sup> (Provide supporti
3. Scirpus atrovirens	5	No	OBL	data in Remarks or on a separate sheet)
4. Symphyotrichum novae-angliae	5	No	FAC	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5. Lysimachia nummularia	5	No	FACW	
6.				<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
7.		·		Definitions of Vegetation Strata:
8.				Demittons of Vegetation Strata.
9.				<b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height
10.				
11.				<b>Sapling/shrub</b> – 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, regardles
	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 i
1				height.
2.				Hydrophytic Vegetation
				-
2 3 4				Present? Yes X No

Profile Desc	ription: (Describe	to the de	pth needed to doci	ument ti	ne indica	tor or c	onfirm the absence of	f indicators.)
Depth	Matrix		Redo	x Featur	es			
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-4	10YR 4/3	100						
4-14	10YR 2/1	95	10YR 4/6	5	С	М	Mucky Loam/Clay	Prominent redox concentrations
							·	
17 0.0							21 11 5	
	oncentration, D=Dep	letion, RN	1=Reduced Matrix, N	NS=Mas	ked Sand	Grains.		L=Pore Lining, M=Matrix. or Problematic Hydric Soils <sup>3</sup> :
Hydric Soil Histosol			Polyvalue Belo	w Surfa	ce (S8) (I			ick (A10) (LRR K, L, MLRA 149B)
	oipedon (A2)		Polyvalue Belo		ce (30) (i			rairie Redox (A16) ( <b>LRR K, L, R</b> )
				,				
Black Hi			Thin Dark Surf		-			icky Peat or Peat (S3) ( <b>LRR K, L, R</b> )
	n Sulfide (A4)		High Chroma S					le Below Surface (S8) (LRR K, L)
	l Layers (A5)		Loamy Mucky			<b>Κ Ν, L</b> )		rk Surface (S9) ( <b>LRR K, L</b> )
·	d Below Dark Surface	e (A11)	Loamy Gleyed		F2)			nganese Masses (F12) ( <b>LRR K, L, R</b> )
	ark Surface (A12)		Depleted Matri					nt Floodplain Soils (F19) ( <b>MLRA 149B</b> )
	lucky Mineral (S1)		X Redox Dark Su	-	-			podic (TA6) ( <b>MLRA 144A, 145, 149B</b> )
	leyed Matrix (S4)		Depleted Dark					ent Material (F21)
Sandy R	ledox (S5)		Redox Depres	sions (F	8)		Very Sha	allow Dark Surface (F22)
Stripped	Matrix (S6)		Marl (F10) (LR	R K, L)			Other (E	xplain in Remarks)
Dark Su	rface (S7)							
<sup>3</sup> Indicators of	f hydrophytic vegetat	ion and w	etland hydrology m	ust be pr	resent, ur	nless dis	turbed or problematic.	
	Layer (if observed):							
Туре:								
Depth (ir	nches):						Hydric Soil Preser	nt? Yes <u>X</u> No
Remarks:						., .		
								CS Field Indicators of Hydric Soils,
version 7.0,	2015 Errata. (http://w	ww.mcs.	usua.gov/internet/F			5/11/05 14	izpz_051295.000x)	



Project/Site: CHPE	- CP Rail - Wh	itehall to Comsto	ock Section	City/County: Washing	gton		Sampling Date:	11/10/21
Applicant/Owner:	CHPE				State:	NY	Sampling Point	GR-X-Up
Investigator(s): KW,	KS			Section, Tov	vnship, Range: <u>\</u>	Whiteha	I	
Landform (hillside, ter	race, etc.):	Toeslope	Local re	elief (concave, conve	x, none): <u>Conca</u>	ve	Slope	%: 0
Subregion (LRR or MI	RA): LRR F	R, MLRA 144A	Lat: 43°,48',05.05"N	Long:	73°,42',90.84"V	V	Datum:	
Soil Map Unit Name:	Kingsbury Sil	ty Clay/Vergenn	nes Silty Clay Loam		NWI classif	fication:	None	
Are climatic / hydrolog	ic conditions o	on the site typica	I for this time of year?	Yes X	No	(lf no, e	explain in Remarks	s.)
Are Vegetation	, Soil	, or Hydrology	significantly disturb	ed? Are "Norm	al Circumstance	es" prese	ent? Yes X	No
Are Vegetation	, Soil	, or Hydrology	naturally problemat	ic? (If needed	, explain any an	swers in	Remarks.)	
SUMMARY OF F	INDINGS –	Attach site	map showing samp	oling point locati	ons, transec	cts, im	portant featur	es, etc.

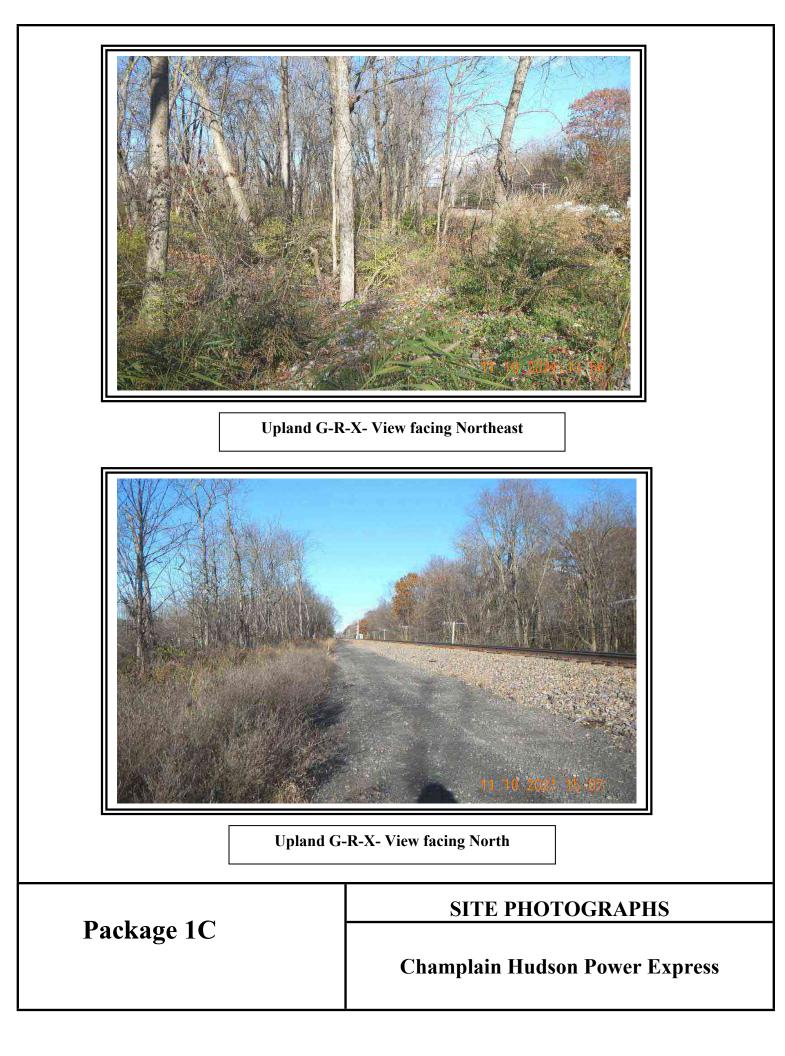
Hydrophytic Vegetation Present?	Yes	No X	Is the Sampled Area           within a Wetland?         Yes         NoX           If yes, optional Wetland Site ID:
Hydric Soil Present?	Yes	No X	
Wetland Hydrology Present?	Yes	No X	
Remarks: (Explain alternative procedur	es here or in a	separate report.)	

Wetland Hydrology Indica	itors:	Secondary Indicators (min	nimum of two required)				
Primary Indicators (minimur	<u>n of one is requ</u>	Surface Soil Cracks (I	Surface Soil Cracks (B6)				
Surface Water (A1)		Drainage Patterns (B10)					
High Water Table (A2)		Moss Trim Lines (B16	Moss Trim Lines (B16)				
Saturation (A3)		Dry-Season Water Ta	ıble (C2)				
Water Marks (B1)		Hydro	ogen Sulfide Odor (C1)	Crayfish Burrows (C8)			
Sediment Deposits (B2	)	Saturation Visible on A	Aerial Imagery (C9)				
Drift Deposits (B3)		Prese	ence of Reduced Iron (C4)		Stunted or Stressed F	Plants (D1)	
Algal Mat or Crust (B4)		Rece	nt Iron Reduction in Tilled Soil	s (C6)	Geomorphic Position	(D2)	
Iron Deposits (B5)		Thin	Muck Surface (C7)		Shallow Aquitard (D3)	)	
Inundation Visible on A	erial Imagery (B	7) Othe	<sup>r</sup> (Explain in Remarks)		Microtopographic Reli	ief (D4)	
Sparsely Vegetated Co	ncave Surface (	(B8)			FAC-Neutral Test (D5	5)	
Field Observations:							
Surface Water Present?	Yes	No	Depth (inches):				
Water Table Present?	Yes	No	Depth (inches):				
Saturation Present?	Yes	No	Depth (inches):	Wetlar	nd Hydrology Present?	Yes No X	
(includes capillary fringe)							
Describe Recorded Data (s	tream gauge, m	onitoring wel	l, aerial photos, previous inspe	ections), if	available:		
Remarks:							

Sampling Point: GR-X-Up

Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:	
1. Populus deltoides	10	Yes	FAC	Number of Dominant Species	2 (A)
2 3				That Are OBL, FACW, or FAC: Total Number of Dominant	(A)
4				Species Across All Strata:	<u>      5     (</u> B)
5.           6.				Percent of Dominant Species That Are OBL, FACW, or FAC:	40.0% (A/B)
7.				Prevalence Index worksheet:	
	10	=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	20	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 Indic	ators:
	35	=Total Cover		1 - Rapid Test for Hydroph	ytic Vegetation
Herb Stratum (Plot size: 5')				2 - Dominance Test is >50	%
1. Centaurea stoebe	35	Yes	UPL	3 - Prevalence Index is ≤3.	0 <sup>1</sup>
2. Phalaris arundinacea	15	Yes	FACW	4 - Morphological Adaptation	ons <sup>1</sup> (Provide supporting
3. Solidago canadensis	10	No	FACU	data in Remarks or on a	separate sheet)
4. Setaria faberi	10	No	FACU	Problematic Hydrophytic V	egetation <sup>1</sup> (Explain)
5. Phragmites australis	10	No	FACW	1 Indiantana of hydria anil and yw	
6.				<sup>1</sup> Indicators of hydric soil and we be present, unless disturbed or	
7.				Definitions of Vegetation Stra	
8.				<b>Tree</b> – Woody plants 3 in. (7.6	om) or moro in
9.				diameter at breast height (DBH	
10.				Sapling/shrub – Woody plants	loss than 2 in DBH
11				and greater than or equal to 3.2	
12	80	=Total Cover		Herb – All herbaceous (non-wood of size, and woody plants less	
Woody Vine Stratum (Plot size: 15')					
1				Woody vines – All woody vine height.	s greater than 3.28 it in
2.					
3.				Hydrophytic Vegetation	
4.				Present? Yes	No X
		=Total Cover			
Remarks: (Include photo numbers here or on a sepa	rate sheet.)				

Depth Matrix	Redo	x Features			
(inches) Color (moist) %	Color (moist)	% Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
		<u> </u>			Romano
0-12 7.5YR 5/3					
			·		
			·		
			·		
			·		
			·		
<sup>1</sup> Type: C=Concentration, D=Depletion,	RM=Reduced Matrix N	IS=Masked Sar	d Grains	<sup>2</sup> Location: PL=Por	e Lining, M=Matrix.
Hydric Soil Indicators:					blematic Hydric Soils <sup>3</sup> :
Histosol (A1)	Polyvalue Belo	w Surface (S8)			10) (LRR K, L, MLRA 149B)
Histic Epipedon (A2)	MLRA 149B	. ,	(ERRER,		Redox (A16) ( <b>LRR K, L, R</b> )
Black Histic (A3)		, ace (S9) ( <b>LRR</b> I			eat or Peat (S3) ( <b>LRR K, L, R</b> )
Hydrogen Sulfide (A4)		Sands (S11) (LF		·	ow Surface (S8) (LRR K, L)
Stratified Layers (A5)		Mineral (F1) ( <b>LF</b>			ace (S9) (LRR K, L)
Depleted Below Dark Surface (A11)			$(\mathbf{R}, \mathbf{L})$		
					se Masses (F12) (LRR K, L, R)
Thick Dark Surface (A12)	Depleted Matri				dplain Soils (F19) ( <b>MLRA 149B</b>
Sandy Mucky Mineral (S1)	Redox Dark Su	( )			(TA6) ( <b>MLRA 144A, 145, 149B</b> )
Sandy Gleyed Matrix (S4)	Depleted Dark			Red Parent Ma	
Sandy Redox (S5)	Redox Depres				Dark Surface (F22)
Stripped Matrix (S6)	Marl (F10) ( <b>LR</b>	<b>R K, L</b> )		Other (Explain	In Remarks)
Dark Surface (S7)					
	1 4 1 h h 1				
<sup>3</sup> Indicators of hydrophytic vegetation and	d wetland hydrology mi	ust be present, l	iniess disturbe	ed or problematic.	
Restrictive Layer (if observed):					
Туре:					

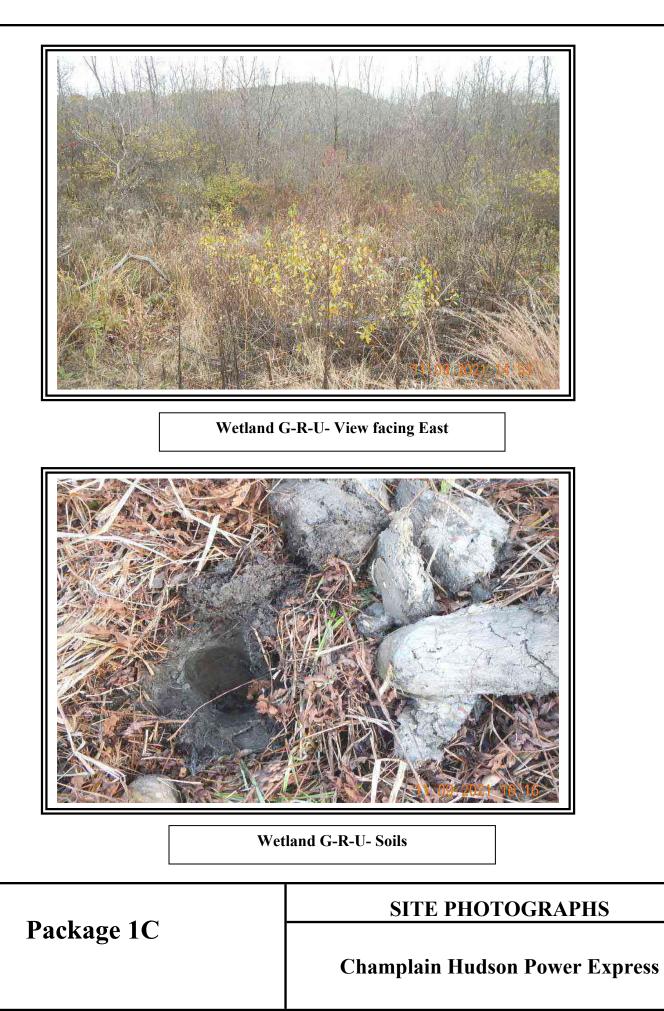


	City/County: Washington Sampling Date: 11/09/21
Applicant/Owner: CHPE	State: NY Sampling Point: GR-U-Wet
Investigator(s): KW, KS	Section, Township, Range: Whitehall
Landform (hillside, terrace, etc.): Floodplain Local r	relief (concave, convex, none): Concave Slope %: 0
Subregion (LRR or MLRA): LRR R, MLRA 144A Lat: 43°,52',16.81"N	Long: 73°,41',07.89"W Datum:
Soil Map Unit Name: Limerick Silty Loam	NWI classification: PSS/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 problemat	
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 Steined Leaves (P	
Surface Water (A1) X Water-Stained Leaves (B	
	39) X Drainage Patterns (B10)
High Water Table (A2) Aquatic Fauna (B13)	X       Drainage Patterns (B10)         Moss Trim Lines (B16)         Dry-Season Water Table (C2)
High Water Table (A2)Aquatic Fauna (B13)X Saturation (A3)Marl Deposits (B15)	X       Drainage Patterns (B10)         Moss Trim Lines (B16)         Dry-Season Water Table (C2)         C1)       Crayfish Burrows (C8)
High Water Table (A2)       Aquatic Fauna (B13)         X Saturation (A3)       Marl Deposits (B15)         Water Marks (B1)       Hydrogen Sulfide Odor (Control of the second sec	39)       X       Drainage Patterns (B10)         Moss Trim Lines (B16)       Dry-Season Water Table (C2)         C1)       Crayfish Burrows (C8)         on Living Roots (C3)       Saturation Visible on Aerial Imagery (C9)
High Water Table (A2)       Aquatic Fauna (B13)         X Saturation (A3)       Marl Deposits (B15)         Water Marks (B1)       Hydrogen Sulfide Odor (C         Sediment Deposits (B2)       Oxidized Rhizospheres of	39)       X       Drainage Patterns (B10)         Moss Trim Lines (B16)       Dry-Season Water Table (C2)         C1)       Crayfish Burrows (C8)         on Living Roots (C3)       Saturation Visible on Aerial Imagery (C9)         on (C4)       Stunted or Stressed Plants (D1)
High Water Table (A2)       Aquatic Fauna (B13)         X Saturation (A3)       Marl Deposits (B15)         Water Marks (B1)       Hydrogen Sulfide Odor (C         Sediment Deposits (B2)       Oxidized Rhizospheres o         Drift Deposits (B3)       Presence of Reduced Iron	39)       X       Drainage Patterns (B10)         Moss Trim Lines (B16)       Dry-Season Water Table (C2)         C1)       Crayfish Burrows (C8)         on Living Roots (C3)       Saturation Visible on Aerial Imagery (C9)         on (C4)       Stunted or Stressed Plants (D1)
High Water Table (A2)       Aquatic Fauna (B13)         X Saturation (A3)       Marl Deposits (B15)         Water Marks (B1)       Hydrogen Sulfide Odor (C         Sediment Deposits (B2)       Oxidized Rhizospheres o         Drift Deposits (B3)       Presence of Reduced Iron         Algal Mat or Crust (B4)       Recent Iron Reduction in	39)       X       Drainage Patterns (B10)         Moss Trim Lines (B16)       Dry-Season Water Table (C2)         C1)       Crayfish Burrows (C8)         on Living Roots (C3)       Saturation Visible on Aerial Imagery (C9)         on (C4)       Stunted or Stressed Plants (D1)         Tilled Soils (C6)       Geomorphic Position (D2)         Shallow Aquitard (D3)
High Water Table (A2)       Aquatic Fauna (B13)         X Saturation (A3)       Marl Deposits (B15)         Water Marks (B1)       Hydrogen Sulfide Odor (C         Sediment Deposits (B2)       Oxidized Rhizospheres o         Drift Deposits (B3)       Presence of Reduced Iron         Algal Mat or Crust (B4)       Recent Iron Reduction in         Iron Deposits (B5)       Thin Muck Surface (C7)	39)       X       Drainage Patterns (B10)         Moss Trim Lines (B16)       Dry-Season Water Table (C2)         C1)       Crayfish Burrows (C8)         on Living Roots (C3)       Saturation Visible on Aerial Imagery (C9)         on (C4)       Stunted or Stressed Plants (D1)         Tilled Soils (C6)       Geomorphic Position (D2)         Shallow Aquitard (D3)
High Water Table (A2)       Aquatic Fauna (B13)         X Saturation (A3)       Marl Deposits (B15)         Water Marks (B1)       Hydrogen Sulfide Odor (C         Sediment Deposits (B2)       Oxidized Rhizospheres o         Drift Deposits (B3)       Presence of Reduced Iron         Algal Mat or Crust (B4)       Recent Iron Reduction in         Iron Deposits (B5)       Thin Muck Surface (C7)         Inundation Visible on Aerial Imagery (B7)       Other (Explain in Remark	39)       X       Drainage Patterns (B10)         Moss Trim Lines (B16)       Dry-Season Water Table (C2)         C1)       Crayfish Burrows (C8)         on Living Roots (C3)       Saturation Visible on Aerial Imagery (C9)         on (C4)       Stunted or Stressed Plants (D1)         Tilled Soils (C6)       Geomorphic Position (D2)         Shallow Aquitard (D3)       Microtopographic Relief (D4)
High Water Table (A2)       Aquatic Fauna (B13)         X Saturation (A3)       Marl Deposits (B15)         Water Marks (B1)       Hydrogen Sulfide Odor (C         Sediment Deposits (B2)       Oxidized Rhizospheres o         Drift Deposits (B3)       Presence of Reduced Iron         Algal Mat or Crust (B4)       Recent Iron Reduction in         Iron Deposits (B5)       Thin Muck Surface (C7)         Inundation Visible on Aerial Imagery (B7)       Other (Explain in Remark         Sparsely Vegetated Concave Surface (B8)       Field Observations:         Surface Water Present?       Yes       No       X       Depth (inches):	39)       X       Drainage Patterns (B10)         Moss Trim Lines (B16)       Dry-Season Water Table (C2)         C1)       Crayfish Burrows (C8)         on Living Roots (C3)       Saturation Visible on Aerial Imagery (C9)         on (C4)       Stunted or Stressed Plants (D1)         Tilled Soils (C6)       Geomorphic Position (D2)         Shallow Aquitard (D3)       Microtopographic Relief (D4)         X       FAC-Neutral Test (D5)
High Water Table (A2)       Aquatic Fauna (B13)         X Saturation (A3)       Marl Deposits (B15)         Water Marks (B1)       Hydrogen Sulfide Odor (C         Sediment Deposits (B2)       Oxidized Rhizospheres o         Drift Deposits (B3)       Presence of Reduced Iron         Algal Mat or Crust (B4)       Recent Iron Reduction in         Iron Deposits (B5)       Thin Muck Surface (C7)         Inundation Visible on Aerial Imagery (B7)       Other (Explain in Remark         Sparsely Vegetated Concave Surface (B8)       Field Observations:         Surface Water Present?       Yes       No       X       Depth (inches):	39)       X       Drainage Patterns (B10)         Moss Trim Lines (B16)       Dry-Season Water Table (C2)         C1)       Crayfish Burrows (C8)         on Living Roots (C3)       Saturation Visible on Aerial Imagery (C9)         on (C4)       Stunted or Stressed Plants (D1)         Tilled Soils (C6)       Geomorphic Position (D2)         Shallow Aquitard (D3)         Ks)       Microtopographic Relief (D4)         X< FAC-Neutral Test (D5)
High Water Table (A2)       Aquatic Fauna (B13)         X Saturation (A3)       Marl Deposits (B15)         Water Marks (B1)       Hydrogen Sulfide Odor (C         Sediment Deposits (B2)       Oxidized Rhizospheres o         Drift Deposits (B3)       Presence of Reduced Irol         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)       Field Observations:         Surface Water Present?       Yes       No       X       Depth (inches):	39)       X       Drainage Patterns (B10)         Moss Trim Lines (B16)       Dry-Season Water Table (C2)         C1)       Crayfish Burrows (C8)         on Living Roots (C3)       Saturation Visible on Aerial Imagery (C9)         on (C4)       Stunted or Stressed Plants (D1)         Tilled Soils (C6)       Geomorphic Position (D2)         Shallow Aquitard (D3)         Ks)       Microtopographic Relief (D4)         X       FAC-Neutral Test (D5)
High Water Table (A2)       Aquatic Fauna (B13)         X Saturation (A3)       Marl Deposits (B15)         Water Marks (B1)       Hydrogen Sulfide Odor (C         Sediment Deposits (B2)       Oxidized Rhizospheres o         Drift Deposits (B3)       Presence of Reduced Iron         Algal Mat or Crust (B4)       Recent Iron Reduction in         Iron Deposits (B5)       Thin Muck Surface (C7)         Inundation Visible on Aerial Imagery (B7)       Other (Explain in Remark         Sparsely Vegetated Concave Surface (B8)       Field Observations:         Surface Water Present?       Yes       No       X       Depth (inches):         Water Table Present?       Yes       No       X       Depth (inches):	39)       X       Drainage Patterns (B10)         Moss Trim Lines (B16)       Dry-Season Water Table (C2)         C1)       Crayfish Burrows (C8)         on Living Roots (C3)       Saturation Visible on Aerial Imagery (C9)         on (C4)       Stunted or Stressed Plants (D1)         Tilled Soils (C6)       Geomorphic Position (D2)         Shallow Aquitard (D3)         Ks)       Microtopographic Relief (D4)         X       FAC-Neutral Test (D5)
High Water Table (A2)       Aquatic Fauna (B13)         X Saturation (A3)       Marl Deposits (B15)         Water Marks (B1)       Hydrogen Sulfide Odor (C         Sediment Deposits (B2)       Oxidized Rhizospheres o         Drift Deposits (B3)       Presence of Reduced Iron         Algal Mat or Crust (B4)       Recent Iron Reduction in         Iron Deposits (B5)       Thin Muck Surface (C7)         Inundation Visible on Aerial Imagery (B7)       Other (Explain in Remark         Sparsely Vegetated Concave Surface (B8)       Surface Water Present?         Field Observations:       No       X         Surface Water Present?       Yes       No       X         Saturation Present?       Yes       No       X       Depth (inches):         Saturation Present?       Yes       No       Depth (inches):	39)       X       Drainage Patterns (B10)         Moss Trim Lines (B16)       Dry-Season Water Table (C2)         C1)       Crayfish Burrows (C8)         on Living Roots (C3)       Saturation Visible on Aerial Imagery (C9)         on (C4)       Stunted or Stressed Plants (D1)         Tilled Soils (C6)       Geomorphic Position (D2)         Shallow Aquitard (D3)       Microtopographic Relief (D4)         X       FAC-Neutral Test (D5)
High Water Table (A2)       Aquatic Fauna (B13)         X Saturation (A3)       Marl Deposits (B15)         Water Marks (B1)       Hydrogen Sulfide Odor (C         Sediment Deposits (B2)       Oxidized Rhizospheres o         Drift Deposits (B3)       Presence of Reduced Iron         Algal Mat or Crust (B4)       Recent Iron Reduction in         Iron Deposits (B5)       Thin Muck Surface (C7)         Inundation Visible on Aerial Imagery (B7)       Other (Explain in Remark         Sparsely Vegetated Concave Surface (B8)       Surface Water Present?         Field Observations:       No       X         Surface Water Present?       Yes       No       X         Saturation Present?       Yes       No       X       Depth (inches):         Saturation Present?       Yes X       No       Depth (inches):         (includes capillary fringe)       Yes X       No       Depth (inches):	39)       X       Drainage Patterns (B10)         Moss Trim Lines (B16)       Dry-Season Water Table (C2)         C1)       Crayfish Burrows (C8)         on Living Roots (C3)       Saturation Visible on Aerial Imagery (C9)         on (C4)       Stunted or Stressed Plants (D1)         Tilled Soils (C6)       Geomorphic Position (D2)         Shallow Aquitard (D3)       Microtopographic Relief (D4)         X       FAC-Neutral Test (D5)
High Water Table (A2)       Aquatic Fauna (B13)         X Saturation (A3)       Marl Deposits (B15)         Water Marks (B1)       Hydrogen Sulfide Odor (C         Sediment Deposits (B2)       Oxidized Rhizospheres o         Drift Deposits (B3)       Presence of Reduced Iron         Algal Mat or Crust (B4)       Recent Iron Reduction in         Iron Deposits (B5)       Thin Muck Surface (C7)         Inundation Visible on Aerial Imagery (B7)       Other (Explain in Remark         Sparsely Vegetated Concave Surface (B8)       Surface Water Present?         Field Observations:       No       X         Surface Water Present?       Yes       No       X         Saturation Present?       Yes       No       X       Depth (inches):         Saturation Present?       Yes X       No       Depth (inches):         (includes capillary fringe)       Yes X       No       Depth (inches):	39)       X       Drainage Patterns (B10)         Moss Trim Lines (B16)       Dry-Season Water Table (C2)         C1)       Crayfish Burrows (C8)         on Living Roots (C3)       Saturation Visible on Aerial Imagery (C9)         on (C4)       Stunted or Stressed Plants (D1)         Tilled Soils (C6)       Geomorphic Position (D2)         Shallow Aquitard (D3)       Microtopographic Relief (D4)         X       FAC-Neutral Test (D5)
High Water Table (A2)       Aquatic Fauna (B13)         X Saturation (A3)       Marl Deposits (B15)         Water Marks (B1)       Hydrogen Sulfide Odor (C         Sediment Deposits (B2)       Oxidized Rhizospheres o         Drift Deposits (B3)       Presence of Reduced Iron         Algal Mat or Crust (B4)       Recent Iron Reduction in         Iron Deposits (B5)       Thin Muck Surface (C7)         Inundation Visible on Aerial Imagery (B7)       Other (Explain in Remark         Sparsely Vegetated Concave Surface (B8)       Surface Water Present?         Field Observations:       No       X         Surface Water Present?       Yes       No       X         Saturation Present?       Yes       No       X       Depth (inches):         Saturation Present?       Yes X       No       Depth (inches):         (includes capillary fringe)       Yes X       No       Depth (inches):	39)       X       Drainage Patterns (B10)         Moss Trim Lines (B16)       Dry-Season Water Table (C2)         C1)       Crayfish Burrows (C8)         on Living Roots (C3)       Saturation Visible on Aerial Imagery (C9)         on (C4)       Stunted or Stressed Plants (D1)         Tilled Soils (C6)       Geomorphic Position (D2)         Shallow Aquitard (D3)       Microtopographic Relief (D4)         X       FAC-Neutral Test (D5)

Sampling Point: GR-U-Wet

Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:			
1. Acer rubrum	<u>10</u>	Yes	FAC				
2. Fraxinus pennsylvanica	10	Yes	FACW	Number of Dominant SpeciesThat Are OBL, FACW, or FAC:7(A)			
3. Ulmus americana	5	No	FACW				
4. Acer negundo		No	FAC	Total Number of DominantSpecies Across All Strata:10 (B)			
5	_			、/			
6.	_			Percent of Dominant Species That Are OBL, FACW, or FAC: 70.0% (A/B)			
7.				Prevalence Index worksheet:			
		=Total Cover		Total % Cover of: Multiply by:			
Sapling/Shrub Stratum (Plot size: 15'	)			OBL species x 1 =			
1. Rhus typhina	5	Yes	UPL	FACW species x 2 =			
2. Alnus incana	10	Yes	FACW	FAC species x 3 =			
3. Lonicera tatarica	5	Yes	FACU	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. Lythrum salicaria	15	Yes	OBL	3 - Prevalence Index is ≤3.0 <sup>1</sup>			
2. Phalaris arundinacea	20	Yes	FACW	4 - Morphological Adaptations <sup>1</sup> (Provide support			
3. Scirpus cyperinus	10	Yes	OBL	data in Remarks or on a separate sheet)			
4. Onoclea sensibilis	10	Yes	FAC	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)			
5. Solidago canadensis	10	Yes	FACU	<sup>1</sup> Indicators of hydric soil and wetland hydrology must			
6. <u>Epilobium coloratum</u>	5	No	OBL	be present, unless disturbed or problematic.			
7				Definitions of Vegetation Strata:			
8				<b>Tree</b> – 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			
	70	=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 ir			
1				height.			
2				I hadron ha dia			
3				Hydrophytic Vegetation			
				Present? Yes X No			
4.		=Total Cover					

Profile Desc	ription: (Describe	to the de	oth needed to docu	ument tl	he indica	tor or c	onfirm the absence of	f indicators.)
Depth	Matrix		Redo	x Featur	res			
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-8	2.5YR 5/1	100						
8-14	10YR 5/2	97	10YR 5/6	3	<u> </u>	M	Mucky Loam/Clay	Prominent redox concentrations
							·	
							·	
							·	
17 0.0								
Hydric Soil	oncentration, D=Dep	letion, RN	Reduced Matrix, N	/IS=Mas	ked Sand	d Grains.		L=Pore Lining, M=Matrix. or Problematic Hydric Soils <sup>3</sup> :
Histosol Histic Ep Black Hi Hydroge Stratified Depleted Thick Da Sandy M Sandy R Sandy R Sandy R Dark Sur	(A1) pipedon (A2) stic (A3) n Sulfide (A4) d Layers (A5) d Below Dark Surface ark Surface (A12) fucky Mineral (S1) sileyed Matrix (S4) tedox (S5) Matrix (S6) rface (S7)		Polyvalue Belo MLRA 149B Thin Dark Surf High Chroma S Loamy Mucky Loamy Gleyed X Depleted Matri Redox Dark Su Depleted Dark Redox Depress Marl (F10) (LR	) ace (S9) Sands (S Mineral Matrix ( x (F3) urface (F Surface sions (F <b>R K, L</b> )	) ( <b>LRR R</b> 511) ( <b>LRF</b> (F1) ( <b>LRF</b> (F2) 56) 56) 57) 8)	, MLRA R K, L) R K, L)	2 cm Mu Coast Pr 5 cm Mu Polyvalu Thin Dar Iron-Mar Mesic Sp Red Part Very Sha	ack (A10) (LRR K, L, MLRA 149B) rairie Redox (A16) (LRR K, L, R) acky Peat or Peat (S3) (LRR K, L, R) be Below Surface (S8) (LRR K, L) rk Surface (S9) (LRR K, L) rk Surface (S9) (LRR K, L) rh Floodplain Soils (F19) (MLRA 149B) podic (TA6) (MLRA 144A, 145, 149B) ent Material (F21) allow Dark Surface (F22) explain in Remarks)
	Layer (if observed):		olland hydrology hit					
Type: Depth (ir	nches):						Hydric Soil Preser	nt? Yes X No
Remarks: This data for							2.0 to include the NRC	CS Field Indicators of Hydric Soils,



Project/Site: CHPE -	CP Rail - W	hitehall to Comst	ock S	Section	City/County: Wash	ington			Sampling Date: 1	1/09/21
Applicant/Owner:	CHPE						State:	NY	Sampling Point:	GR-U-Up
Investigator(s): KW, K	(S				Section, T	ownship, F	Range: <u>V</u>	Nhiteha	all	
Landform (hillside, terra	ace, etc.):	Floodplain		Local re	elief (concave, conv	vex, none)	: Conc	ave	Slope <sup>o</sup>	%: 10
Subregion (LRR or MLI	RA): LRR	R, MLRA 144A	Lat:	43°,52',16.18"N	Long	g: <u>73°,41'</u> ,	,07.89"W	V	Datum:	
Soil Map Unit Name:	Limerick Silt	Loam				NW	/I classifi	ication:	None	
Are climatic / hydrologi	c conditions	on the site typica	al for '	this time of year?	Yes X	<u>No</u>	)	(lf no,	explain in Remarks.	)
Are Vegetation	, Soil	, or Hydrology		significantly disturbe	ed? Are "No	rmal Circu	mstance	s" pres	sent? Yes <u>X</u> I	No
Are Vegetation	, Soil	, or Hydrology		naturally problemati	ic? (If need	ed, explair	۱ any ans	swers in	n Remarks.)	
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.										
Hydrophytic Vegetatio	on Present?	Yes		No <u>X</u>	Is the Sampled	Area				

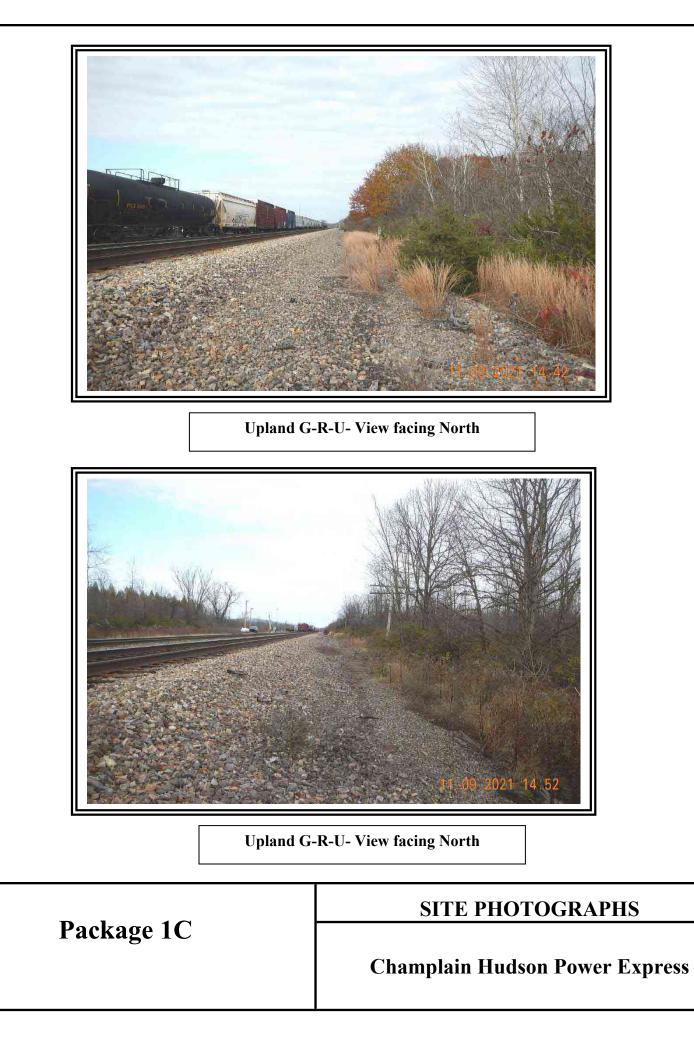
Hydric Soil Present?	Yes		within a Wetland? Yes No X
Wetland Hydrology Present?	Yes	No X	If yes, optional Wetland Site ID:
Remarks: (Explain alternative procedu	ires here or in a	separate report.)	

Wetland Hydrology Indica	tors:				Secondary Indicators (min	imum of two required)
Primary Indicators (minimun	n of one is require	Surface Soil Cracks (E	Surface Soil Cracks (B6)			
Surface Water (A1)		Drainage Patterns (B1	Drainage Patterns (B10)			
High Water Table (A2)		Moss Trim Lines (B16)				
Saturation (A3)		Dry-Season Water Ta	ble (C2)			
Water Marks (B1)		Crayfish Burrows (C8)				
Sediment Deposits (B2)	1	Saturation Visible on A	Aerial Imagery (C9)			
Drift Deposits (B3)		Presen	ice of Reduced Iron (C4)		Stunted or Stressed P	lants (D1)
Algal Mat or Crust (B4)		Recent	t Iron Reduction in Tilled Soi	ils (C6)	Geomorphic Position	(D2)
Iron Deposits (B5)		Thin M	uck Surface (C7)		Shallow Aquitard (D3)	
Inundation Visible on A	erial Imagery (B7	) Other (	Explain in Remarks)		Microtopographic Reli	ef (D4)
Sparsely Vegetated Cor	ncave Surface (B	38)			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):	Wetlar	nd Hydrology Present?	Yes No X
(includes capillary fringe)						
Describe Recorded Data (st	ream gauge, mo	nitoring well,	aerial photos, previous insp	ections), if	available:	
Remarks:						

Sampling Point: GR-U-Up

Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
Populus deltoides	5	Yes	FAC	Number of Dominant Species That Are OBL, FACW, or FAC:1 (A)
3				Total Number of Dominant Species Across All Strata: <u> </u>
5				Percent of Dominant Species That Are OBL, FACW, or FAC: <u>16.7%</u> (A/B)
7.				Prevalence Index worksheet:
	5	=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15' )				OBL species x 1 =
1. Rhus typhina	15	Yes	UPL	FACW species x 2 =
2. Juniperus virginiana	15	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:
	30	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
<u>Herb Stratum</u> (Plot size: 5')				2 - Dominance Test is >50%
1. Centaurea stoebe	35	Yes	UPL	$3$ - Prevalence Index is $\leq 3.0^{1}$
2. Schizachyrium scoparium	30	Yes	FACU	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
3. Cirsium arvense	15	No	FACU	data in Remarks or on a separate sheet)
	15		FACU	Decklementie Undecklerie Magnetetien <sup>1</sup> (Eveleie)
4				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
6				be present, unless disturbed or problematic.
7				Definitions of Vegetation Strata:
8 9				<b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
10				Sapling/shrub – Woody plants less than 3 in. DBH
11				and greater than or equal to 3.28 ft (1 m) tall.
12				Herb – All herbaceous (non-woody) plants, regardless
	80	=Total Cover		of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size: 15')				Woody vines – All woody vines greater than 3.28 ft in
1. Rubus allegheniensis	5	Yes	FACU	height.
2.				
3.				Hydrophytic Vegetation
4.				Present? Yes No X
	5	=Total Cover		
Remarks: (Include photo numbers here or on a separ		-		
	ate sheet.)			

Profile Desc	ription: (Describe	to the de	epth needed to doc	ument t	he indica	ator or co	onfirm t	he absence of indica	tors.)		
Depth	Matrix		Redo	x Featu	res						
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Т	exture	Rema	irks	
					. <u> </u>						
					·						
					• •						
<sup>1</sup> Type: C=Co	ncentration. D=Dep	letion. RN	M=Reduced Matrix, N	MS=Mas	sked San	d Grains.		<sup>2</sup> Location: PL=Pore	Linina. M=Ma	atrix.	
Hydric Soil I								Indicators for Prob			
Histosol			Polyvalue Belo	W Surfa	aca (S8) (			2 cm Muck (A10	-		
					ace (30) (						
	ipedon (A2)		MLRA 1498	'				Coast Prairie Re			
Black His			Thin Dark Surf				149B)	5 cm Mucky Pea			
	n Sulfide (A4)		High Chroma	-				Polyvalue Below			L)
	Layers (A5)		Loamy Mucky	Mineral	(F1) ( <b>LR</b>	R K, L)		Thin Dark Surface	ce (S9) ( <b>LRR</b>	K, L)	
Depleted	Below Dark Surface	e (A11)	Loamy Gleyed	Matrix	(F2)			Iron-Manganese	Masses (F1	2) ( <b>LRR K</b>	, <b>L, R</b> )
Thick Da	rk Surface (A12)		Depleted Matri	ix (F3)				Piedmont Flood	plain Soils (F	19) ( <b>MLR/</b>	A 149B)
Sandy M	ucky Mineral (S1)		Redox Dark S	urface (I	F6)			Mesic Spodic (T	A6) ( <b>MLRA 1</b>	44A, 145,	, <b>149B</b> )
Sandy G	eyed Matrix (S4)		Depleted Dark	Surface	e (F7)			Red Parent Mate	erial (F21)		
	edox (S5)		Redox Depres					Very Shallow Da		-22)	
	Matrix (S6)		 Marl (F10) (LR					Other (Explain ir		,	
	face (S7)			, _/					r tomanto)		
31	h					مادمم مانمه	م ام م ما م				
			vetland hydrology m	ust be p	resent, ui	niess dist	turbed o	r problematic.			
	ayer (if observed):										
Туре:	cobble/l	pallast									
Depth (in	ches):	0					Hyd	ric Soil Present?	Yes	No	х
Remarks:	-						_				
Remarks.											
No soil hole c	lua due to ballast si	teslone a	djacent to wetland b	oundar							
	ing the to ballast sit	lesiope a		oundary	y -						



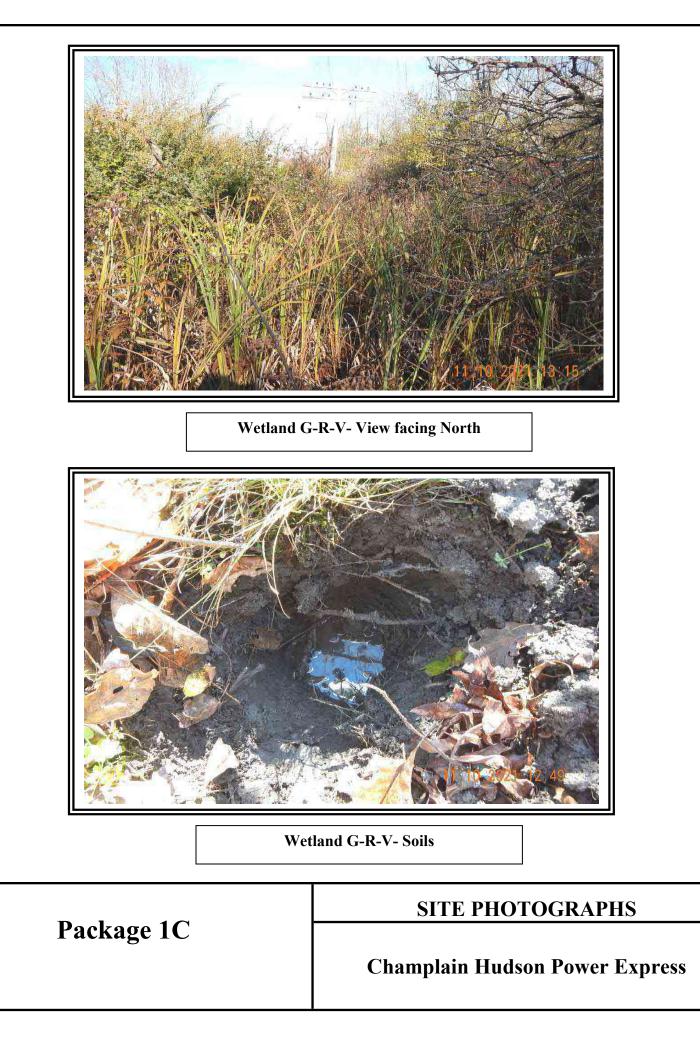
	City/County: Washington Sampling Date: 11/10/21
Applicant/Owner: CHPE	State: NY Sampling Point: GR-V-Wet
Investigator(s): KW, KS	Section, Township, Range: Whitehall
Landform (hillside, terrace, etc.): Floodplain Local r	relief (concave, convex, none): Concave Slope %: 0
Subregion (LRR or MLRA): LRR R, MLRA 144A Lat: 43°,50',75.59"N	Long: 73°,41',46.86"W Datum:
Soil Map Unit Name: Saco Silt Loam	NWI classification: PSS/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	Ded? Are "Normal Circumstances" present? Yes X No
Are Vegetation, Soil, or Hydrologynaturally problema	
SUMMARY OF FINDINGS – Attach site map showing sam	
Sommart OF Findings – Allach site map showing samp	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:
HYDROLOGY	
	Secondary Indicators (minimum of two required)
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply)	Secondary Indicators (minimum of two required) Surface Soil Cracks (B6)
Wetland Hydrology Indicators:	Surface Soil Cracks (B6)
Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Wetland Hydrology Indicators:           Primary Indicators (minimum of one is required; check all that apply)           Surface Water (A1)         X	Surface Soil Cracks (B6)       39)     X       Drainage Patterns (B10)
Wetland Hydrology Indicators:         Primary Indicators (minimum of one is required; check all that apply)         Surface Water (A1)       X         High Water Table (A2)       Aquatic Fauna (B13)	Surface Soil Cracks (B6) X Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2)
Wetland Hydrology Indicators:         Primary Indicators (minimum of one is required; check all that apply)         Surface Water (A1)       X         High Water Table (A2)       Aquatic Fauna (B13)         X       Saturation (A3)         Water Marks (B1)       Hydrogen Sulfide Odor (G)         Sediment Deposits (B2)       Oxidized Rhizospheres of	Surface Soil Cracks (B6)         39)       X         Drainage Patterns (B10)         Moss Trim Lines (B16)         Dry-Season Water Table (C2)         C1)       Crayfish Burrows (C8)         on Living Roots (C3)       Saturation Visible on Aerial Imagery (C9)
Wetland Hydrology Indicators:         Primary Indicators (minimum of one is required; check all that apply)         Surface Water (A1)       X         High Water Table (A2)       Aquatic Fauna (B13)         X       Saturation (A3)         Water Marks (B1)       Hydrogen Sulfide Odor (Construction of the section of the	Surface Soil Cracks (B6)         39)       X         Drainage Patterns (B10)         Moss Trim Lines (B16)         Dry-Season Water Table (C2)         C1)       Crayfish Burrows (C8)         on Living Roots (C3)       Saturation Visible on Aerial Imagery (C9)         on (C4)       Stunted or Stressed Plants (D1)
Wetland Hydrology Indicators:         Primary Indicators (minimum of one is required; check all that apply)         Surface Water (A1)       X         High Water Table (A2)       Aquatic Fauna (B13)         X Saturation (A3)       Marl Deposits (B15)         Water Marks (B1)       Hydrogen Sulfide Odor (C         Sediment Deposits (B2)       Oxidized Rhizospheres of         Drift Deposits (B3)       Presence of Reduced Iron         Algal Mat or Crust (B4)       Recent Iron Reduction in	Surface Soil Cracks (B6)         39)       X         Drainage Patterns (B10)         Moss Trim Lines (B16)         Dry-Season Water Table (C2)         C1)       Crayfish Burrows (C8)         on Living Roots (C3)       Saturation Visible on Aerial Imagery (C9)         on (C4)       Stunted or Stressed Plants (D1)         or Tilled Soils (C6)       Geomorphic Position (D2)
Wetland Hydrology Indicators:         Primary Indicators (minimum of one is required; check all that apply)         Surface Water (A1)       X         High Water Table (A2)       Aquatic Fauna (B13)         X Saturation (A3)       Marl Deposits (B15)         Water Marks (B1)       Hydrogen Sulfide Odor (C         Sediment Deposits (B2)       Oxidized Rhizospheres of         Drift Deposits (B3)       Presence of Reduced Iron         Algal Mat or Crust (B4)       Recent Iron Reduction in         Iron Deposits (B5)       Thin Muck Surface (C7)	Surface Soil Cracks (B6)         39)       X         Drainage Patterns (B10)         Moss Trim Lines (B16)         Dry-Season Water Table (C2)         C1)       Crayfish Burrows (C8)         on Living Roots (C3)       Saturation Visible on Aerial Imagery (C9)         on (C4)       Stunted or Stressed Plants (D1)         or Tilled Soils (C6)       Geomorphic Position (D2)         Shallow Aquitard (D3)
Wetland Hydrology Indicators:         Primary Indicators (minimum of one is required; check all that apply)         Surface Water (A1)       X         High Water Table (A2)       Aquatic Fauna (B13)         X Saturation (A3)       Marl Deposits (B15)         Water Marks (B1)       Hydrogen Sulfide Odor (C         Sediment Deposits (B2)       Oxidized Rhizospheres of         Drift Deposits (B3)       Presence of Reduced Iron         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	Surface Soil Cracks (B6)         39)       X         Drainage Patterns (B10)         Moss Trim Lines (B16)         Dry-Season Water Table (C2)         C1)       Crayfish Burrows (C8)         on Living Roots (C3)       Saturation Visible on Aerial Imagery (C9)         on (C4)       Stunted or Stressed Plants (D1)         Tilled Soils (C6)       Geomorphic Position (D2)         Shallow Aquitard (D3)       Microtopographic Relief (D4)
Wetland Hydrology Indicators:         Primary Indicators (minimum of one is required; check all that apply)         Surface Water (A1)       X         High Water Table (A2)       Aquatic Fauna (B13)         X Saturation (A3)       Marl Deposits (B15)         Water Marks (B1)       Hydrogen Sulfide Odor (C         Sediment Deposits (B2)       Oxidized Rhizospheres of         Drift Deposits (B3)       Presence of Reduced Iron         Algal Mat or Crust (B4)       Recent Iron Reduction in         Iron Deposits (B5)       Thin Muck Surface (C7)	Surface Soil Cracks (B6)         39)       X         Drainage Patterns (B10)         Moss Trim Lines (B16)         Dry-Season Water Table (C2)         C1)       Crayfish Burrows (C8)         on Living Roots (C3)       Saturation Visible on Aerial Imagery (C9)         on (C4)       Stunted or Stressed Plants (D1)         or Tilled Soils (C6)       Geomorphic Position (D2)         Shallow Aquitard (D3)
Wetland Hydrology Indicators:         Primary Indicators (minimum of one is required; check all that apply)         Surface Water (A1)       X         High Water Table (A2)       Aquatic Fauna (B13)         X Saturation (A3)       Marl Deposits (B15)         Water Marks (B1)       Hydrogen Sulfide Odor (C         Sediment Deposits (B2)       Oxidized Rhizospheres of         Drift Deposits (B3)       Presence of Reduced Iron         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)       Field Observations:	Surface Soil Cracks (B6)         39)       X         Drainage Patterns (B10)         Moss Trim Lines (B16)         Dry-Season Water Table (C2)         C1)       Crayfish Burrows (C8)         on Living Roots (C3)       Saturation Visible on Aerial Imagery (C9)         on (C4)       Stunted or Stressed Plants (D1)         Tilled Soils (C6)       Geomorphic Position (D2)         Shallow Aquitard (D3)       Microtopographic Relief (D4)
Wetland Hydrology Indicators:         Primary Indicators (minimum of one is required; check all that apply)         Surface Water (A1)       X         High Water Table (A2)       Aquatic Fauna (B13)         X Saturation (A3)       Marl Deposits (B15)         Water Marks (B1)       Hydrogen Sulfide Odor (0         Sediment Deposits (B2)       Oxidized Rhizospheres of         Drift Deposits (B3)       Presence of Reduced Iron         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)       Field Observations:         Surface Water Present?       Yes       No       X       Depth (inches):	Surface Soil Cracks (B6)         39)       X         Drainage Patterns (B10)         Moss Trim Lines (B16)         Dry-Season Water Table (C2)         C1)       Crayfish Burrows (C8)         on Living Roots (C3)       Saturation Visible on Aerial Imagery (C9)         on (C4)       Stunted or Stressed Plants (D1)         1 Tilled Soils (C6)       Geomorphic Position (D2)         Shallow Aquitard (D3)         Ks)       Microtopographic Relief (D4)         X       FAC-Neutral Test (D5)
Wetland Hydrology Indicators:         Primary Indicators (minimum of one is required; check all that apply)         Surface Water (A1)       X         High Water Table (A2)       Aquatic Fauna (B13)         X Saturation (A3)       Marl Deposits (B15)         Water Marks (B1)       Hydrogen Sulfide Odor (C         Sediment Deposits (B2)       Oxidized Rhizospheres of         Drift Deposits (B3)       Presence of Reduced Iron         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)       Field Observations:         Surface Water Present?       Yes       No       X       Depth (inches):         Water Table Present?       Yes       No       X       Depth (inches):	Surface Soil Cracks (B6)         39)       X         Drainage Patterns (B10)         Moss Trim Lines (B16)         Dry-Season Water Table (C2)         C1)       Crayfish Burrows (C8)         on Living Roots (C3)       Saturation Visible on Aerial Imagery (C9)         on (C4)       Stunted or Stressed Plants (D1)         1 Tilled Soils (C6)       Geomorphic Position (D2)         Shallow Aquitard (D3)         Ks)       Microtopographic Relief (D4)         X       FAC-Neutral Test (D5)
Wetland Hydrology Indicators:         Primary Indicators (minimum of one is required; check all that apply)         Surface Water (A1)       X         High Water Table (A2)       Aquatic Fauna (B13)         X       Saturation (A3)       Marl Deposits (B15)         Water Marks (B1)       Hydrogen Sulfide Odor (G         Sediment Deposits (B2)       Oxidized Rhizospheres of         Drift Deposits (B3)       Presence of Reduced Iron         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)       Field Observations:         Surface Water Present?       Yes       No       X       Depth (inches):         Saturation Present?       Yes       No       Depth (inches):       Saturation Present?       Yes       No       Depth (inches):	Surface Soil Cracks (B6)         39)       X         Drainage Patterns (B10)         Moss Trim Lines (B16)         Dry-Season Water Table (C2)         C1)       Crayfish Burrows (C8)         on Living Roots (C3)       Saturation Visible on Aerial Imagery (C9)         on (C4)       Stunted or Stressed Plants (D1)         1 Tilled Soils (C6)       Geomorphic Position (D2)         Shallow Aquitard (D3)         Ks)       Microtopographic Relief (D4)         X       FAC-Neutral Test (D5)
Wetland Hydrology Indicators:         Primary Indicators (minimum of one is required; check all that apply)         Surface Water (A1)       X         High Water Table (A2)       Aquatic Fauna (B13)         X Saturation (A3)       Marl Deposits (B15)         Water Marks (B1)       Hydrogen Sulfide Odor (C         Sediment Deposits (B2)       Oxidized Rhizospheres of         Drift Deposits (B3)       Presence of Reduced Iron         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)       Field Observations:         Surface Water Present?       Yes       No       X       Depth (inches):         Water Table Present?       Yes       No       X       Depth (inches):	Surface Soil Cracks (B6)         39)       X         Drainage Patterns (B10)         Moss Trim Lines (B16)         Dry-Season Water Table (C2)         C1)       Crayfish Burrows (C8)         Saturation Visible on Aerial Imagery (C9)         on Living Roots (C3)       Saturation Visible on Aerial Imagery (C9)         on (C4)       Stunted or Stressed Plants (D1)         Tilled Soils (C6)       Geomorphic Position (D2)         Shallow Aquitard (D3)       Microtopographic Relief (D4)         X       FAC-Neutral Test (D5)

Remarks:

Sampling Point: GR-V-Wet

Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. Acer rubrum	15	Yes	FAC	Number of Dominant Spacing
2. Fraxinus pennsylvanica	5	No	FACW	Number of Dominant SpeciesThat Are OBL, FACW, or FAC:6(A)
3. Ulmus americana	10	Yes	FACW	
4. Acer negundo	5	No	FAC	Total Number of DominantSpecies Across All Strata:7(B)
5.				
6.	•			Percent of Dominant Species That Are OBL, FACW, or FAC: 85.7% (A/
7.				Prevalence Index worksheet:
		=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15'	)			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. Lonicera tatarica	5	Yes	FACU	FACU species x 4 =
4.				UPL species x 5 =
5.				Column Totals: (A) (
6.				Prevalence Index = B/A =
7.				Hydrophytic Vegetation Indicators:
	25	=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	$3 - Prevalence Index is \leq 3.0^{1}$
2. Phalaris arundinacea	5	No	FACW	4 - Morphological Adaptations <sup>1</sup> (Provide support
		Yes	OBL	data in Remarks or on a separate sheet)
4. Onoclea sensibilis	25	Yes	FAC	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5. Solidago canadensis	5		FAC	
		No	FACU	<sup>1</sup> Indicators of hydric soil and wetland hydrology mus
6				be present, unless disturbed or problematic.
7				Definitions of Vegetation Strata:
8				<b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in
9				diameter at breast height (DBH), regardless of heigh
10				<b>Sapling/shrub</b> – Woody plants less than 3 in. DBH
11				and greater than or equal to 3.28 ft (1 m) tall.
12.				Herb – All herbaceous (non-woody) plants, regardle
	70	=Total Cover		of size, and woody plants less than 3.28 ft tall.
	、 <u> </u>			
Woody Vine Stratum (Plot size: 15'	)			Woody vines – All woody vines greater than 3.28 ft
1	)			
1 2	)			Woody vines – All woody vines greater than 3.28 ft height.
1.	)			Woody vines – All woody vines greater than 3.28 ft height. Hydrophytic Vegetation
1 2	)			Woody vines – All woody vines greater than 3.28 ft height. Hydrophytic

Profile Desc	ription: (Describe	to the dep	oth needed to docu	ument ti	ne indica	tor or c	onfirm the absence o	of indicators.)
Depth	Matrix		Redo	x Featur	es			
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-6	10YR 4/2	100						
6-14	10YR 5/1	97	10YR 5/6	3	С	М	Mucky Loam/Clay	Prominent redox concentrations
		·						
		·						
		·						
		·						
1							2	
	oncentration, D=Dep	letion, RM	Reduced Matrix, N	NS=Mas	ked Sand	d Grains.		PL=Pore Lining, M=Matrix. for Problematic Hydric Soils <sup>3</sup> :
Hydric Soil Histosol			Polyvalue Belo	w Surfa	ce (S8) (I			uck (A10) (LRR K, L, MLRA 149B)
	bipedon (A2)		MLRA 149B		ce (00) (i	LIXIX IX,		Prairie Redox (A16) ( <b>LRR K, L, R</b> )
Black Hi			Thin Dark Surf	'		MLRA		ucky Peat or Peat (S3) ( <b>LRR K, L, R</b> )
	n Sulfide (A4)		High Chroma S					ue Below Surface (S8) (LRR K, L)
	Layers (A5)		Loamy Mucky					ark Surface (S9) ( <b>LRR K, L</b> )
	Below Dark Surface	e (A11)	Loamy Gleyed			, ,		inganese Masses (F12) ( <b>LRR K, L, R</b> )
	ark Surface (A12)	( )	X Depleted Matri		,			nt Floodplain Soils (F19) ( <b>MLRA 149B</b> )
	lucky Mineral (S1)		Redox Dark Su		6)			Spodic (TA6) ( <b>MLRA 144A, 145, 149B</b> )
Sandy G	leyed Matrix (S4)		Depleted Dark	Surface	(F7)			rent Material (F21)
	edox (S5)		Redox Depres	sions (F	8)		Very Sh	nallow Dark Surface (F22)
	Matrix (S6)		Marl (F10) (LR	RK,L)			Other (I	Explain in Remarks)
Dark Su	rface (S7)		、 , 、					
<sup>3</sup> Indicators of	f hydrophytic vegetat	tion and w	etland hydrology m	ust be pr	esent, ur	nless dis	turbed or problematic.	
Restrictive I	Layer (if observed):							
Туре:								
Depth (ir	nches):						Hydric Soil Prese	ent? Yes <u>X</u> No
Remarks:								
								CS Field Indicators of Hydric Soils,
Version 7.0,	2015 Errata. (http://w	vww.nrcs.u	usda.gov/Internet/F	SE_DOC	CUMENT	S/nrcs14	2p2_051293.docx)	



Project/Site: CHPE - CP Ra	ail - Whitehall to Comst	ock Section	City/County: Washington	Sampling Date: 11/10/21
Applicant/Owner: CHPE	<u>:</u>		State:	NY Sampling Point: GR-V-Up
Investigator(s): KW, KS			Section, Township, Range:	Whitehall
Landform (hillside, terrace, et	etc.): Floodplain	Local re	elief (concave, convex, none): <u>Con</u>	ncave Slope %: 10
Subregion (LRR or MLRA):	LRR R, MLRA 144A	Lat: 43°,50',75.59"N	Long: 73°,41',46.86"	W Datum:
Soil Map Unit Name: Saco	Silt Loam		NWI class	ification: None
Are climatic / hydrologic cond	ditions on the site typica	al for this time of year?	Yes X No	(If no, explain in Remarks.)
Are Vegetation, Soil	, or Hydrology	significantly disturbe	ed? Are "Normal Circumstance	ces" present? Yes X No
Are Vegetation, Soil	, or Hydrology	naturally problemati	ic? (If needed, explain any a	nswers in Remarks.)
SUMMARY OF FINDIN	IGS – Attach site	map showing samp	ling point locations, transe	ects, important features, etc.
Hydrophytic Vegetation Pres	sent? Yes	No X	Is the Sampled Area	

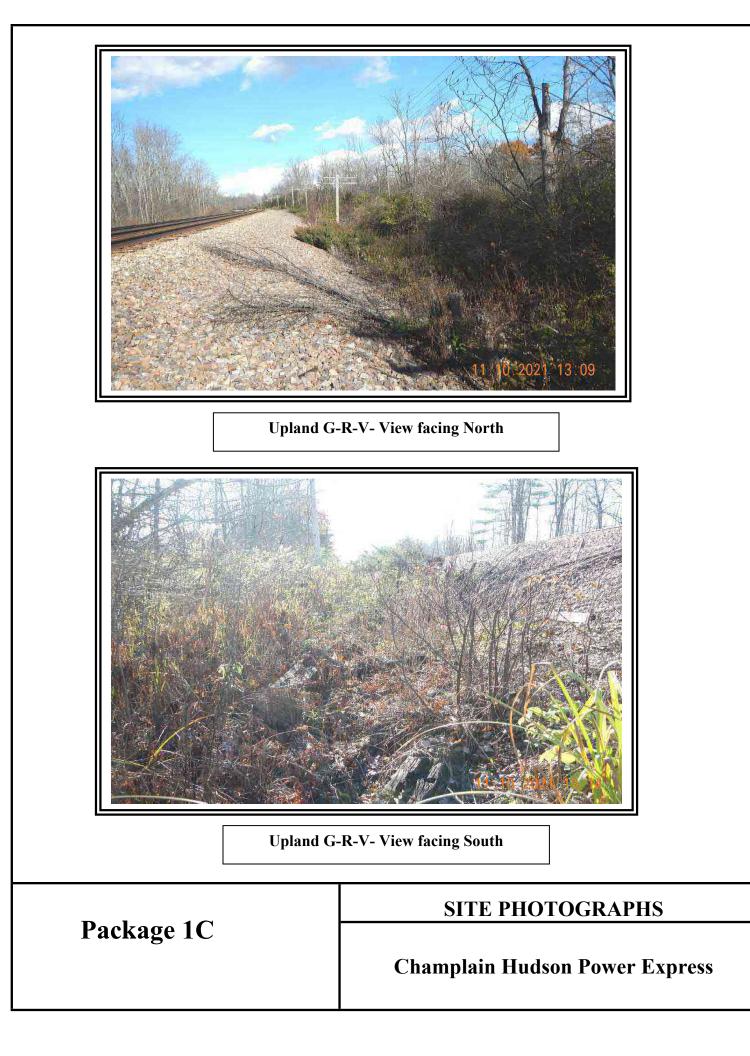
Hydrophytic Vegetation Present?	Yes	No X	Is the Sampled Area
Hydric Soil Present?	Yes	No X	within a Wetland? Yes No X
Wetland Hydrology Present?	Yes	No X	If yes, optional Wetland Site ID:
Remarks: (Explain alternative proced	ures here or in a	separate report.)	

			Secondary Indicators (minimum of two required)		
Primary Indicators (minimum of one is rec	Surface Soil Cracks (B6)				
Surface Water (A1)	Drainage Patterns (B10)				
High Water Table (A2)	Moss Trim Lines (B16)				
Saturation (A3)	Dry-Season Water Table (C2)				
Water Marks (B1)	Crayfish Burrows (C8)				
Sediment Deposits (B2)	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 Soil	s (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	e (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):	Wetlan	d Hydrology Present? Yes No X		
(in clouds a consillance fairs as )			· · · · · · · · · · · · · · · · · · ·		
(includes capillary fringe)					
	monitoring well, aerial photos, previous inspe	ections), if a	available:		

Sampling Point: GR-V-Up

<u>Tree Stratum</u> (Plot size: <u>30'</u> )	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: 7 (B)
5 6				Percent of Dominant Species That Are OBL, FACW, or FAC: <u>14.3%</u> (A/B)
7				Prevalence Index worksheet:
		=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. Juniperus virginiana	10	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
<u>Herb Stratum</u> (Plot size: 5')				2 - Dominance Test is >50%
1. Centaurea stoebe	15	Yes	UPL	3 - Prevalence Index is <3.01
0	4.0	Yes	FACU	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
	10	Yes	FAC	data in Remarks or on a separate sheet)
				Decklass die Underschadie Manstalie 1 (Erstalie)
4. Asclepias syriaca	5	No	UPL	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
6				be present, unless disturbed or problematic.
7				Definitions of Vegetation Strata:
8 9.				<b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
10.				
				<b>Sapling/shrub</b> – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
11 12.				
	40	=Total Cover		<b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size: 15')				Woody vines – All woody vines greater than 3.28 ft in
1. Rubus allegheniensis	5	Yes	FACU	height.
2. Parthenocissus quinquefolia	5	Yes	FACU	Hydrophytic
3				Vegetation
4				Present? Yes <u>No X</u>
	10	=Total Cover		
Remarks: (Include photo numbers here or on a separ	ate sheet.)			

Profile Desc	ription: (Describe	to the de	oth needed to doc	ument t	he indica	tor or co	onfirm the abso	ence of indica	tors.)	
Depth	Matrix		Redo	x Featu	res					
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture		Rema	rks
		·								
		·			·					
		·			·					
		·								
		·			·					
		·			·					
<sup>1</sup> Type: C=C	oncentration, D=Dep	letion RM	Reduced Matrix	MS=Mas	sked Sand	Grains	<sup>2</sup> l oca	tion: PL=Pore	Lining M=Ma	atrix
Hydric Soil			r rioddood malini, r	no ma				ators for Prob		
Histosol			Polyvalue Belo	w Surfs	nce (S8) (			cm Muck (A10	-	
	pipedon (A2)		MLRA 1498			,		oast Prairie Re		
			Thin Dark Surf	'		MIDA				-
Black Hi								-		(LRR K, L, R)
	n Sulfide (A4)		High Chroma	-				olyvalue Belov		
	l Layers (A5)	- (	Loamy Mucky			<b>K K</b> , L)		hin Dark Surfa		
	Below Dark Surface	e (A11)	Loamy Gleyed		(F2)			-	-	2) (LRR K, L, R)
	ark Surface (A12)		Depleted Matri							19) ( <b>MLRA 149B</b> )
	lucky Mineral (S1)		Redox Dark S		-					44A, 145, 149B)
	Bleyed Matrix (S4)		Depleted Dark					ed Parent Mat		
	ledox (S5)		Redox Depres	•	8)			ery Shallow Da		22)
	Matrix (S6)		Marl (F10) (LR	R K, L)			C	ther (Explain i	n Remarks)	
Dark Su	rface (S7)									
<sup>3</sup> Indicators of	f hydrophytic vegeta	tion and w	etland hydrology m	ust be p	resent, ur	nless dist	urbed or proble	matic.		
Restrictive I	Layer (if observed):									
Type:	cobble/	ballast								
Depth (ir	nches):	0					Hydric Soil	Present?	Yes	No X
	/	-					<b>,</b>			
Remarks:										
No soil hole	dug due to ballast si	deslone a	diacent to wetland h	oundary	,					
	and are to ballably of	acciope a		oundary						
1										



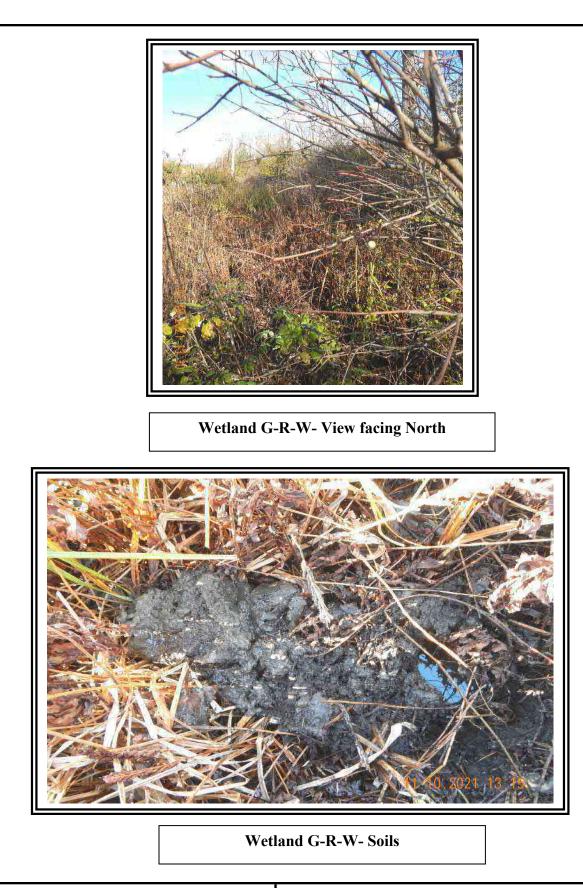
Project/Site: CHPE - CP	' Rail - Whitehall to Coms	tock Section (	City/County: Washington		Sampling Date: 1	1/10/21
Applicant/Owner: CH	IPE			State: NY	Sampling Point:	GR-W-Wet
Investigator(s): KW, KS			Section, Township	, Range: White	hall	
Landform (hillside, terrace	e, etc.): Floodplain	Local re	lief (concave, convex, none	e): Concave	Slope	%: 0
Subregion (LRR or MLRA	): LRR R, MLRA 144A	Lat: <u>43°,50',43.26"N</u>	Long: <u>73°,4</u>	1',62.01"W	Datum:	
Soil Map Unit Name: Ort	thents and Psamments -	dredge spoils	<u>N</u>	IWI classification:	PSS	
Are climatic / hydrologic c	onditions on the site typic	al for this time of year?	Yes X N	No (If no,	explain in Remarks.	)
Are Vegetation, Set	oil, or Hydrology	significantly disturbe	ed? Are "Normal Circ	cumstances" pres	sent? Yes X	No
		naturally problemation		ain any answers i	n Remarks.)	
		map showing samp		transects, in	nportant feature	es, etc.
Hydrophytic Vegetation F Hydric Soil Present? Wetland Hydrology Prese Remarks: (Explain altern	Yes	X     No       X     No       X     No       in a separate report.)	Is the Sampled Area within a Wetland? If yes, optional Wetland S	Yes X Site ID:	No	
HYDROLOGY						
Wetland Hydrology Ind	icators:		<u>Secor</u>	ndary Indicators (	(minimum of two req	uired)
	num of one is required; cl			Surface Soil Crack	( )	
X Surface Water (A1)		Water-Stained Leaves (B9	·	rainage Patterns	. ,	
High Water Table (A	2)	Aquatic Fauna (B13)	N	loss Trim Lines (	B16)	
X Saturation (A3)		П	Dry-Season Water Table (C2)			

High Water Table (A2)		Aquatic Fa	una (B13)		Moss Trim Lines (B16	)
X Saturation (A3)	_	Marl Depos	sits (B15)		Dry-Season Water Ta	ble (C2)
Water Marks (B1)		Hydrogen	Sulfide Odor (C1)		Crayfish Burrows (C8)	)
Sediment Deposits (B2)		Oxidized R	Rhizospheres on Living Ro	oots (C3)	Saturation Visible on A	Aerial Imagery (C9)
Drift Deposits (B3)		Presence	of Reduced Iron (C4)	_	Stunted or Stressed P	lants (D1)
Algal Mat or Crust (B4)		Recent Iro	n Reduction in Tilled Soils	s (C6)	Geomorphic Position	(D2)
Iron Deposits (B5)		Thin Muck	Surface (C7)	_	Shallow Aquitard (D3)	
Inundation Visible on Aerial Ir	magery (B7)	Other (Exp	lain in Remarks)	_	Microtopographic Reli	ef (D4)
Sparsely Vegetated Concave	Surface (B8)				X FAC-Neutral Test (D5	)
Field Observations:						
Surface Water Present? Yes	s X N	lo D	epth (inches): 3			
Water Table Present? Yes		lo X D	epth (inches):			
Saturation Present? Yes	s X N	lo D	epth (inches): 4	Wetland	Hydrology Present?	Yes X No
(includes capillary fringe)						
Describe Recorded Data (stream	gauge, monito	oring well, aeri	ial photos, previous inspe	ections), if ava	ailable:	
Remarks:						

Sampling Point: GR-W-Wet

Tree Stratum (Plot size:30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. Ulmus americana	10	Yes	FACW	Number of Dominant Species
2. Acer saccharinum	10	Yes	FACW	That Are OBL, FACW, or FAC: 7 (A)
3. Acer rubrum 4.		Yes	FAC	Total Number of Dominant Species Across All Strata: 8 (B)
5	_			Percent of Dominant Species That Are OBL, FACW, or FAC: 87.5% (A/B
7.				Prevalence Index worksheet:
	25	=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15'	)			OBL species x 1 =
1. Cornus racemosa	25	Yes	FAC	FACW species x 2 =
2. Alnus incana	10	Yes	FACW	FAC species x 3 =
3. Lonicera tatarica	5	No	FACU	FACU species x 4 =
4.		·		UPL species x 5 =
				Column Totals: (A) (E
		·		Prevalence Index = B/A =
7				Hydrophytic Vegetation Indicators:
/	40	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
<u>Herb Stratum</u> (Plot size: 5')				X 2 - Dominance Test is >50%
· · · · · · · · · · · · · · · · · · ·	20	Voo		3 - Prevalence Index is < 3.01
Onoclea sensibilis	30	Yes	FACW	4 - Morphological Adaptations <sup>1</sup> (Provide supporti
2. Scirpus atrovirens		Yes	OBL	data in Remarks or on a separate sheet)
3. Lythrum salicaria	10	No	OBL	
4. Epilobium coloratum	5	No	OBL	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5. <u>Carex sp.</u> 5	5	No		<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
7				Definitions of Vegetation Strata:
3 9.				<b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of heigh
10 11.				<b>Sapling/shrub</b> – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
12.				
	70	=Total Cover		<b>Herb</b> – All herbaceous (non-woody) plants, regardles of size, and woody plants less than 3.28 ft tall.
Noody Vine Stratum (Plot size: 15' I. Rubus allegheniensis	_) <u>5</u>	Yes	FACU	<b>Woody vines</b> – All woody vines greater than 3.28 ft height.
2				
3				Hydrophytic Vegetation
				Present? Yes X No
4	5	=Total Cover		

Depth	Matrix		Redo	x Featur				
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-12	10YR 2/1	97	10YR 5/6	3		<u>M</u>	Mucky Loam/Clay	Prominent redox concentrations
							·	
							·	
	·						·	
<sup>1</sup> Type: C=C Hydric Soil	oncentration, D=Depl	etion, RM	=Reduced Matrix, N	/IS=Mas	ked Sand	d Grains.		L=Pore Lining, M=Matrix. or Problematic Hydric Soils <sup>3</sup> :
Histosol Histic E Black H Hydroge Stratifie Deplete Thick D Sandy M Sandy F Stripped		e (A11)	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	) Sace (S9) Sands (S Mineral Matrix ( X (F3) urface (F Surface sions (F	) ( <b>LRR R</b> 511) ( <b>LRI</b> (F1) ( <b>LRI</b> (F2) 56) 56)	, MLRA R K, L)	2 cm Mu Coast Pr 5 cm Mu Polyvalu Thin Dar Iron-Mar Mesic Sp Red Pare Very Sha	ick (A10) ( <b>LRR K, L, MLRA 149B</b> ) rairie Redox (A16) ( <b>LRR K, L, R</b> ) icky Peat or Peat (S3) ( <b>LRR K, L, R</b> ) the Below Surface (S8) ( <b>LRR K, L</b> ) the Surface (S9) ( <b>LRR K, L</b> ) the Surface (S9) ( <b>LRR K, L</b> ) the Floodplain Soils (F19) ( <b>MLRA 149E</b> ) podic (TA6) ( <b>MLRA 144A, 145, 149B</b> ) ent Material (F21) allow Dark Surface (F22) (xplain in Remarks)
<sup>3</sup> Indicators c	of hydrophytic vegetati	ion and w	etland hydrology mu	ust be pi	resent, ur	nless dis	turbed or problematic.	
Type:	Layer (if observed):						Hydric Soil Preser	nt? Yes <u>X</u> No
	rm is revised from No 2015 Errata. (http://w							CS Field Indicators of Hydric Soils,



Package 1C

# SITE PHOTOGRAPHS

**Champlain Hudson Power Express** 

Project/Site: CHPE	- CP Rail - Wł	nitehall to Comsto	ck Section	City/County: Washin	gton		Sampling Date: 1	1/10/21
Applicant/Owner:	CHPE				State	e: NY	Sampling Point:	GR-W-Up
Investigator(s): KW,	KS			Section, To	wnship, Range	e: Whiteha	all	
Landform (hillside, ter	rrace, etc.):	Floodplain	Local r	elief (concave, conve	x, none): Co	oncave	Slope	%: 10
Subregion (LRR or M	LRA): LRR	R, MLRA 144A	Lat: 43°,50',43.26"N	Long:	73°,41',62.01	"W	Datum:	
Soil Map Unit Name:	Orthents and	l Psamments - dr	edge spoils		NWI clas	sification	None	
Are climatic / hydrolog	gic 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	ed? Are "Norn	nal Circumstar	nces" pres	sent? Yes X	No
Are Vegetation	, Soil	, or Hydrology	naturally problemat	tic? (If needed	l, explain any	answers i	n Remarks.)	
SUMMARY OF F	INDINGS -	Attach site n	nap showing samp	oling point locat	ions, trans	ects, in	nportant feature	es, etc.

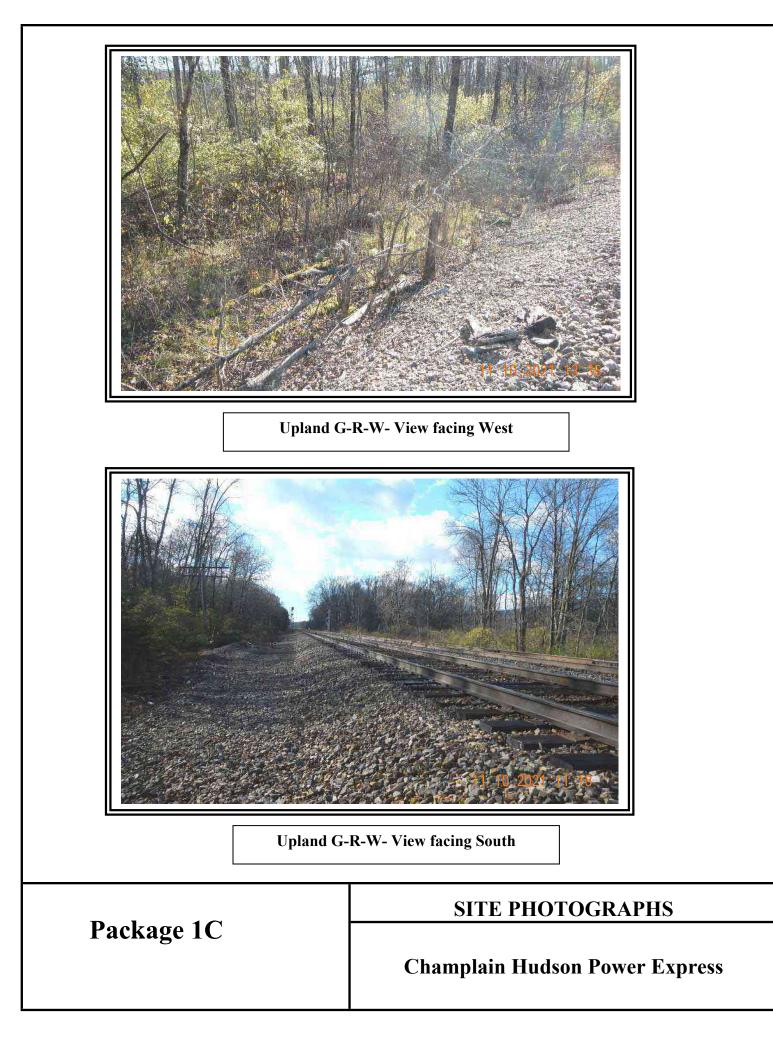
Hydrophytic Vegetation Present?	Yes	No X		Is the Sampled Area
Hydric Soil Present?	Yes	No X	_	within a Wetland? Yes No X
Wetland Hydrology Present?	Yes	No X	_	If yes, optional Wetland Site ID:
Remarks: (Explain alternative procedures h	ere or in a se	eparate rep	port.)	

Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)				
Primary Indicators (minimum of one is requi	Surface Soil Cracks (B6)				
Surface Water (A1)	Drainage Patterns (B10)				
High Water Table (A2)	Aquatic Fauna (B13)	Moss Trim Lines (B16)			
Saturation (A3)	Marl Deposits (B15)	Dry-Season Water Table (C2)			
Water Marks (B1)	Hydrogen Sulfide Odor (C1)	Crayfish Burrows (C8)			
Sediment Deposits (B2)	Oxidized Rhizospheres on Living Ro	oots (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	s (C6) Geomorphic Position (D2)			
Iron Deposits (B5)	Thin Muck Surface (C7)	Shallow Aquitard (D3)			
Inundation Visible on Aerial Imagery (B	7) Other (Explain in Remarks)	Microtopographic Relief (D4)			
Sparsely Vegetated Concave Surface (	Sparsely Vegetated Concave Surface (B8)				
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, mo	onitoring well, aerial photos, previous inspe	ections), if available:			
Remarks:					

Sampling Point: GR-W-Up

Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1.			Oldido	
2.				Number of Dominant Species         That Are OBL, FACW, or FAC:       0         (A)
3				Total Number of Dominant
4				Species Across All Strata: 5 (B)
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)
7.				Prevalence Index worksheet:
		=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15')				OBL species         x 1 =
1. Rhus typhina	10	Yes	UPL	FACW species x 2 =
2.				FAC species x 3 =
3.				FACU species x 4 =
4.				UPL species x 5 =
5.				Column Totals: (A) (B)
6.				Prevalence Index = B/A =
7.				Hydrophytic Vegetation Indicators:
	10	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
<u>Herb Stratum</u> (Plot size: 5')				2 - Dominance Test is >50%
1. Solidago canadensis	10	Yes	FACU	3 - Prevalence Index is ≤3.0 <sup>1</sup>
2. Centaurea stoebe	10	Yes	UPL	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
3. Alliaria petiolata	10	Yes	FACU	data in Remarks or on a separate sheet)
4.				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5.				
6.				<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
7.				Definitions of Vegetation Strata:
8.				
9.				<b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
10.				
11.				<b>Sapling/shrub</b> – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
12.				
	30	=Total Cover		<b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size: 15')				Woody vines – All woody vines greater than 3.28 ft in
1. Rubus allegheniensis	5	Yes	FACU	height.
2				
3				Hydrophytic Vegetation
4				Present? Yes No X
	5	=Total Cover		
Remarks: (Include photo numbers here or on a separ	rate sheet.)			•

Profile Desc	ription: (Describe	to the de	epth needed to doc	ument t	he indica	ator or co	onfirm t	he absence of indica	tors.)		
Depth	Matrix		Redo	x Featu	res						
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Т	exture	Rema	irks	
					·						
					·						
					• •						
<sup>1</sup> Type: C=Co	ncentration. D=Dep	letion. RN	M=Reduced Matrix, N	MS=Mas	sked San	d Grains.		<sup>2</sup> Location: PL=Pore	Linina. M=Ma	atrix.	
Hydric Soil I								Indicators for Prob			
Histosol			Polyvalue Belo	W Surfa	aca (S8) (			2 cm Muck (A10	-		
					ace (30) (						
	ipedon (A2)		MLRA 1498	'				Coast Prairie Re			
Black His			Thin Dark Surf				149B)	5 cm Mucky Pea			
	n Sulfide (A4)		High Chroma	-				Polyvalue Below			L)
	Layers (A5)		Loamy Mucky	Mineral	(F1) ( <b>LR</b>	R K, L)		Thin Dark Surface	ce (S9) ( <b>LRR</b>	K, L)	
Depleted	Below Dark Surface	e (A11)	Loamy Gleyed	Matrix	(F2)			Iron-Manganese	Masses (F1	2) ( <b>LRR K</b>	, <b>L, R</b> )
Thick Da	rk Surface (A12)		Depleted Matri	ix (F3)				Piedmont Flood	plain Soils (F	19) ( <b>MLR/</b>	A 149B)
Sandy M	ucky Mineral (S1)		Redox Dark S	urface (I	F6)			Mesic Spodic (T	A6) ( <b>MLRA 1</b>	44A, 145,	, <b>149B</b> )
Sandy G	eyed Matrix (S4)		Depleted Dark	Surface	e (F7)			Red Parent Mate	erial (F21)		
	edox (S5)		Redox Depres					Very Shallow Da		-22)	
	Matrix (S6)		 Marl (F10) (LR					Other (Explain ir		,	
	face (S7)			, _/					r tomanto)		
31	h					مادمم مانمه	م ام م ما م				
			vetland hydrology m	ust be p	resent, ui	niess dist	turbed o	r problematic.			
	ayer (if observed):										
Туре:	cobble/l	pallast									
Depth (in	ches):	0					Hyd	ric Soil Present?	Yes	No	х
Remarks:	· _						_				
Remarks.											
No soil hole c	lua due to ballast si	teslone a	djacent to wetland b	oundar							
	ing the to ballast sit	lesiope a		oundary	y -						



Project/Site: CHPE - CP Rail - Whitehall to Comstock Section	City/County: Washington Sampling Date: 11/11/21				
Applicant/Owner: CHPE	State: NY Sampling Point: GR-Y-Wet				
Investigator(s): KW, KS	Section, Township, Range: Whitehall				
Landform (hillside, terrace, etc.): Toeslope Local re	lief (concave, convex, none): Concave Slope %: 0				
Subregion (LRR or MLRA): LRR R, MLRA 144A Lat: 43°,47',97.94"N	Long: 73°,42',93.80"W Datum:				
Soil Map Unit Name: Kingsbury Silty Clay	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 Hydrologysignificantly disturbe	ed? 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 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:				
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 (B9	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	1) 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					
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)				
Field Observations:					
Surface Water Present? Yes No X Depth (inches):					
Water Table Present? Yes No X Depth (inches):	<u> </u>				
Saturation Present? Yes X No Depth (inches):	10 Wetland Hydrology Present? Yes X No				

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

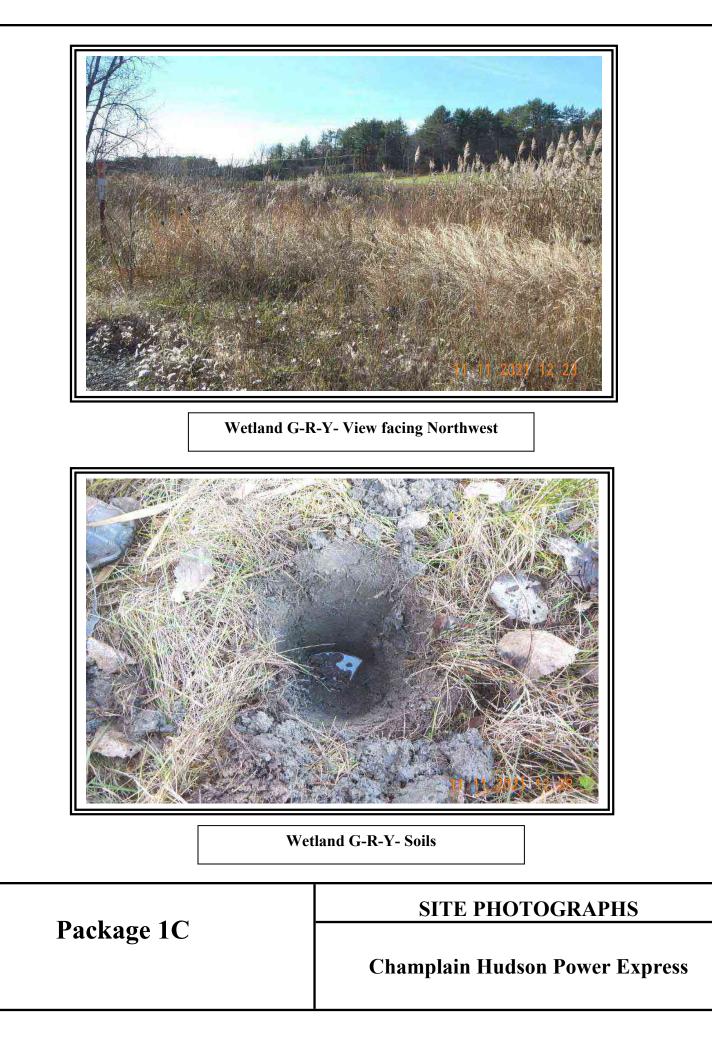
Remarks:

Saturation Present? (includes capillary fringe)

Sampling Point: GR-Y-Wet

Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. Populus deltoides	5	Yes	FAC	Number of Dominant Species
2.				That Are OBL, FACW, or FAC:5 (A)
3 4				Total Number of Dominant Species Across All Strata: 7 (B)
5.           6.				Percent of Dominant Species That Are OBL, FACW, or FAC: 71.4% (A/B)
7.				Prevalence Index worksheet:
	5	=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15' )				OBL species x 1 =
1. Rhus typhina	10	Yes	UPL	FACW species x 2 =
2. Salix nigra	5	Yes	OBL	FAC species x 3 =
3. Lonicera tatarica	5	Yes	FACU	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
<u>Herb Stratum</u> (Plot size: 5')				X 2 - Dominance Test is >50%
1. Lythrum salicaria	20	Yes	OBL	$3 - \text{Prevalence Index is } \leq 3.0^1$
2. Phalaris arundinacea	20	Yes	FACW	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
3. Eutrochium maculatum	10	<u> </u>	OBL	data in Remarks or on a separate sheet)
4. Symphyotrichum novae-angliae	5	<u>No</u>	FAC	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5.			17.0	
				<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
7.				Definitions of Vegetation Strata:
8.				
9.				<b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
10.				
11.				<b>Sapling/shrub</b> – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
12.				
12.	55	=Total Cover		<b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size: 15')				
1. Vitis riparia	5	Yes	FAC	<b>Woody vines</b> – All woody vines greater than 3.28 ft in height.
2.		103		neight.
3.				Hydrophytic
4.				Vegetation Present? Yes X No
4	5	=Total Cover		Present? Yes X No
	-			
Remarks: (Include photo numbers here or on a separ	ate sheet.)			

Profile Desc	cription: (Describe	to the de	pth needed to docu	ument tl	he indica	tor or c	onfirm the absence of in	idicators.)			
Depth	Matrix		Redo	x Featur	res						
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks			
0-6	10YR 4/3	100									
							·				
6-14	7.5YR 2.5/1	97	10YR 4/6	3	С	Μ	Mucky Loam/Clay	Prominent redox concentrations			
		·									
		·									
		·				. <u> </u>	·				
<sup>1</sup> Type: C=Ce	oncentration, D=Dep	letion, RM	1=Reduced Matrix, N	/IS=Mas	ked Sand	d Grains.	<sup>2</sup> Location: PL=	Pore Lining, M=Matrix.			
Hydric Soil	Indicators:						Indicators for	Problematic Hydric Soils <sup>3</sup> :			
Histosol	(A1)		Polyvalue Belo	w Surfa	ce (S8) (I	LRR R,	2 cm Muck	(A10) (LRR K, L, MLRA 149B)			
Histic Ep	pipedon (A2)		MLRA 149B	)			Coast Prair	ie Redox (A16) ( <b>LRR K, L, R</b> )			
Black Hi	stic (A3)		Thin Dark Surf	ace (S9	) (LRR R	MLRA	149B)5 cm Muck	y Peat or Peat (S3) ( <b>LRR K, L, R</b> )			
Hydroge	en Sulfide (A4)		High Chroma S	Sands (S	611) ( <b>LRF</b>	R K, L)	Polyvalue E	Below Surface (S8) (LRR K, L)			
Stratified	d Layers (A5)		Loamy Mucky	Mineral	(F1) ( <b>LRI</b>	R K, L)	Thin Dark S	Surface (S9) ( <b>LRR K, L</b> )			
Depleted	d Below Dark Surface	e (A11)	Loamy Gleyed	Matrix (	F2)		Iron-Manga	anese Masses (F12) ( <b>LRR K, L, R</b> )			
Thick Da	ark Surface (A12)		Depleted Matri	x (F3)			Piedmont F	loodplain Soils (F19) ( <b>MLRA 149B</b> )			
Sandy M	lucky Mineral (S1)		X Redox Dark Su	urface (F	-6)		Mesic Spoo	dic (TA6) ( <b>MLRA 144A, 145, 149B</b> )			
	Bleyed Matrix (S4)		Depleted Dark	Surface	e (F7)			t Material (F21)			
	Redox (S5)		Redox Depres	-	8)			ow Dark Surface (F22)			
	Matrix (S6)		Marl (F10) ( <b>LR</b>	<b>R K, L</b> )			Other (Exp	lain in Remarks)			
Dark Su	rface (S7)										
2											
	, , , ,		etland hydrology mu	ust be pr	resent, ur	iless dist	turbed or problematic.				
	Layer (if observed):										
Туре:											
Depth (ii	nches):						Hydric Soil Present?	Yes <u>X</u> No			
Remarks:											
								Field Indicators of Hydric Soils,			
Version 7.0,	2015 Errata. (http://v	vww.nrcs.	usda.gov/Internet/FS	SE_DOO	CUMENT	S/nrcs14	2p2_051293.docx)				



Project/Site: CHPE -	· CP Rail - Wh	nitehall to Comsto	ock S	ection	City/Coun	ty: Washin	gton			Samplir	ng Date:	11/11/2	1
Applicant/Owner:	CHPE						Sta	te: 1	NY	Samp	ling Point:	GR-Y	′-Up
Investigator(s): KW, ł	٨S				s	ection, Tov	vnship, Rang	e: Wh	itehall				
Landform (hillside, terr	race, etc.):	Toeslope		Local	relief (conc	ave, conve	x, none): <u>Co</u>	ncave			Slope	%:	0
Subregion (LRR or ML	RA): LRR F	R, MLRA 144A	Lat:	43°,47',97.94"N		Long:	73°,42',93.8	0"W			Datum:		
Soil Map Unit Name:	Kingsbury Si	lty Clay					NWI cla	ssifica	tion:	None			
Are climatic / hydrolog	ic conditions of	on the site typica	al for t	this time of year?		Yes X	No	(If	no, ex	xplain ir	n Remarks	s.)	
Are Vegetation	, Soil	, or Hydrology		significantly distur	bed?	Are "Norm	al Circumsta	inces"	prese	nt? Y	′es <u>X</u>	No	
Are Vegetation	, Soil	, or Hydrology		naturally problema	atic?	(If needed	, explain any	answe	ers in	Remarl	(s.)		
SUMMARY OF FI	INDINGS -	Attach site	map	showing sam	pling poi	int locati	ons, trans	ects	, imp	ortan	t featur	es, et	с.
Hydrophytic Vegetation	on Present?	Yes		No X	Is the S	ampled Ar	ea						
Hydric Soil Present?		Yes		No X	within a	Wetland?	, ,	res		No 🕽	x		

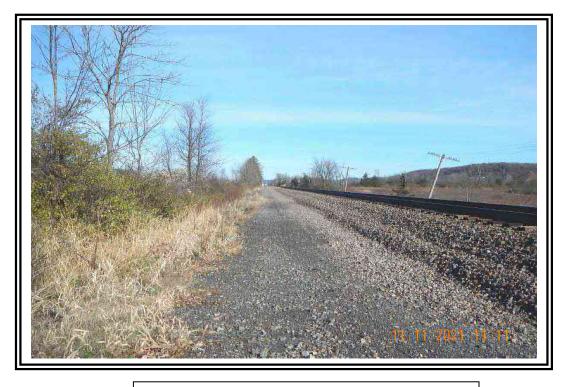
Hydric Soil Present?	Yes	No X	within a Wetland? Yes No X	
Wetland Hydrology Present?	Yes	No X	If yes, optional Wetland Site ID:	
Remarks: (Explain alternative procedu	res here or in a s	separate report.)		

Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)					
Primary Indicators (minimum of one is requir	ed; check all that apply)	Surface Soil Cracks (B6)				
Surface Water (A1)	Surface Water (A1) Water-Stained Leaves (B9)					
High Water Table (A2)	Aquatic Fauna (B13)	Moss Trim Lines (B16)				
Saturation (A3)	Marl Deposits (B15)	Dry-Season Water Table (C2)				
Water Marks (B1)	Hydrogen Sulfide Odor (C1)	Crayfish Burrows (C8)				
Sediment Deposits (B2)	Oxidized Rhizospheres on Living Roots (	C3) Saturation Visible on Aerial Imagery (C9)				
Drift Deposits (B3)	Presence of Reduced Iron (C4)	Stunted or Stressed Plants (D1)				
Algal Mat or Crust (B4)	Recent Iron Reduction in Tilled Soils (C6)	Geomorphic Position (D2)				
Iron Deposits (B5)	Thin Muck Surface (C7)	Shallow Aquitard (D3)				
Inundation Visible on Aerial Imagery (B7	<ol> <li>Other (Explain in Remarks)</li> </ol>	Microtopographic Relief (D4)				
Sparsely Vegetated Concave Surface (E	38)	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):         We           No         X         Depth (inches):         We	etland Hydrology Present? Yes No X				
		etland Hydrology Present? Yes <u>No X</u>				
Saturation Present? Yes (includes capillary fringe)						
Saturation Present? Yes (includes capillary fringe)	No X Depth (inches): We					
Saturation Present? Yes (includes capillary fringe) Describe Recorded Data (stream gauge, mo	No X Depth (inches): We					
Saturation Present? Yes (includes capillary fringe)	No X Depth (inches): We					
Saturation Present? Yes (includes capillary fringe) Describe Recorded Data (stream gauge, mo	No X Depth (inches): We					
Saturation Present? Yes (includes capillary fringe) Describe Recorded Data (stream gauge, mo	No X Depth (inches): We					
Saturation Present? Yes (includes capillary fringe) Describe Recorded Data (stream gauge, mo	No X Depth (inches): We					
Saturation Present? Yes (includes capillary fringe) Describe Recorded Data (stream gauge, mo	No X Depth (inches): We					
Saturation Present? Yes (includes capillary fringe) Describe Recorded Data (stream gauge, mo	No X Depth (inches): We					
Saturation Present? Yes (includes capillary fringe) Describe Recorded Data (stream gauge, mo	No X Depth (inches): We					
Saturation Present? Yes (includes capillary fringe) Describe Recorded Data (stream gauge, mo	No X Depth (inches): We					
Saturation Present? Yes (includes capillary fringe) Describe Recorded Data (stream gauge, mo	No X Depth (inches): We					

Sampling Point: GR-Y-Up

Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
Populus deltoides           2.	5	Yes	FAC	Number of Dominant Species That Are OBL, FACW, or FAC: 3 (A)
3				Total Number of Dominant Species Across All Strata: <u>6</u> (B)
5.           6.				Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50.0%</u> (A/B)
7				Prevalence Index worksheet:
	5	=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15' )				OBL species x 1 =
1. Rhus typhina	10	Yes	UPL	FACW species x 2 =
2. Rhamnus cathartica	20	Yes	FAC	FAC species x 3 =
3. Lonicera tatarica	20	Yes	FACU	FACU species x 4 =
4				UPL species x 5 =
5				Column Totals: (A)(B)
6.				Prevalence Index = B/A =
7.				Hydrophytic Vegetation Indicators:
	50	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5')				2 - Dominance Test is >50%
1. Setaria faberi	30	Yes	FACU	3 - Prevalence Index is ≤3.0 <sup>1</sup>
2. Phalaris arundinacea	10	No	FACW	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
3. Daucus carota	10	No	UPL	data in Remarks or on a separate sheet)
4. Symphyotrichum novae-angliae	5	No	FACW	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5		·		
		·		<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
7				Definitions of Vegetation Strata:
		·		Demitions of Vegetation offata.
9.		·		<b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
10.       11.		·		<b>Sapling/shrub</b> – 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
	55	=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. Vitis riparia	5	Yes	FAC	height.
2.				
3.				Hydrophytic
4.				Vegetation Present? Yes No X
	5	=Total Cover		
Remarks: (Include photo numbers here or on a sepa				
	Tate sheet.)			

Matrix         Matrix           (inches)         Color (moist)         %           0-14         7.5YR 4/3         100	Color (moist)	<u>Features</u> %     Ty	pe <sup>1</sup> Loc <sup>2</sup>	Texture	Remarks
· · · · · · · · · · · · · · · · · · ·	Color (moist)	<u>%</u> <u>Ty</u> 		Texture	Remarks
0-14 7.5YR 4/3 100					
<sup>1</sup> Type: C=Concentration, D=Depletion, RM=	Reduced Matrix M	IS=Masked	Sand Grain	<sup>2</sup> Location: P	L=Pore Lining, M=Matrix.
Hydric Soil Indicators:					or Problematic Hydric Soils <sup>3</sup> :
Histosol (A1)	Polyvalue Belo	w Surface (S	38) ( <b>I RR R</b>		ick (A10) (LRR K, L, MLRA 149B)
Histic Epipedon (A2)	MLRA 149B				rairie Redox (A16) ( <b>LRR K, L, R</b> )
Black Histic (A3)	Thin Dark Surfa				ucky Peat or Peat (S3) (LRR K, L, R)
Hydrogen Sulfide (A4)	High Chroma S				le Below Surface (S8) (LRR K, L)
Stratified Layers (A5)	Loamy Mucky Mucky		(LRR R, L		rk Surface (S9) (LRR K, L)
Depleted Below Dark Surface (A11)	Loamy Gleyed				nganese Masses (F12) ( <b>LRR K, L, R</b> )
Thick Dark Surface (A12)	Depleted Matrix				nt Floodplain Soils (F19) ( <b>MLRA 149</b>
Sandy Mucky Mineral (S1)	Redox Dark Su	· · /			podic (TA6) ( <b>MLRA 144A, 145, 149B</b>
Sandy Gleyed Matrix (S4)	Depleted Dark		)		ent Material (F21)
Sandy Redox (S5)	Redox Depress	. ,			allow Dark Surface (F22)
Stripped Matrix (S6)	Marl (F10) ( <b>LR</b>	<b>R K, L</b> )		Other (E	xplain in Remarks)
Dark Surface (S7)					
<sup>3</sup> Indicators of hydrophytic vegetation and we	tland hydrology mu	ist be prese	nt, unless d	isturbed or problematic.	
Restrictive Layer (if observed):					
Туре:					
Depth (inches):				Hydric Soil Prese	nt? Yes No X
				inguine commeteo	



Upland G-R-Y- View facing North



Upland G-R-Y- View facing South

Package 1C

# SITE PHOTOGRAPHS

**Champlain Hudson Power Express** 

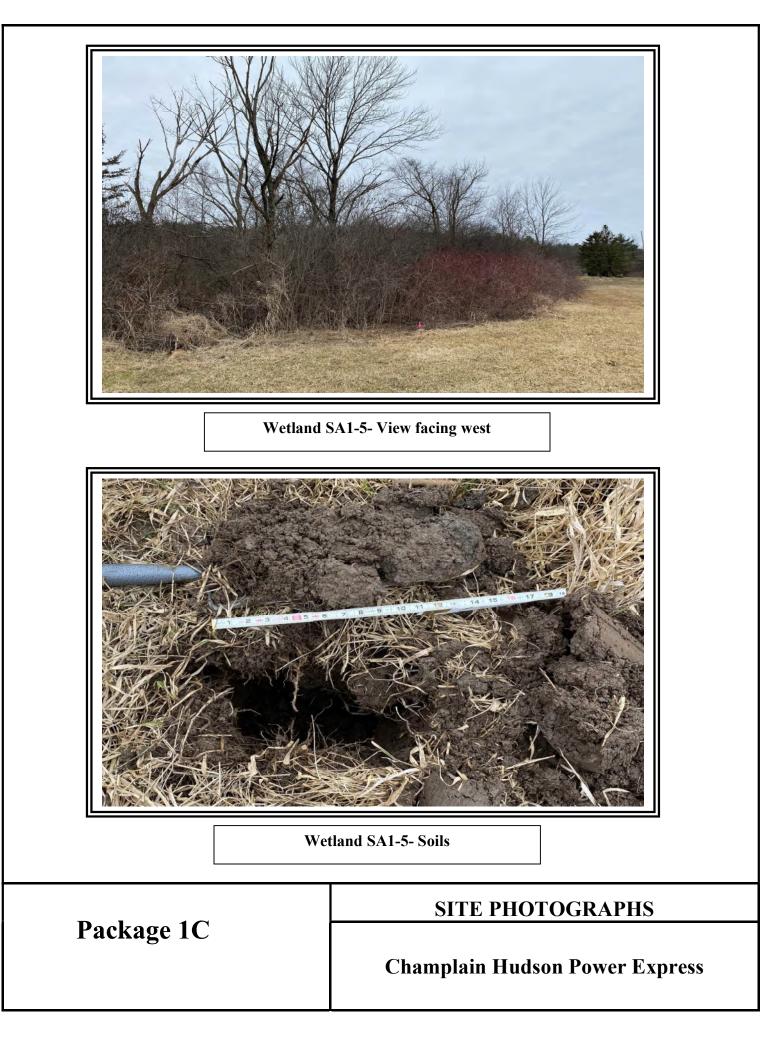
Project/Site: CHPE		City	/County: Whiteha	all/Washington	:	Sampling Date: 4/5/2	22
Applicant/Owner: TDI				State:	NY	Sampling Point: s/	1-5 Wet
Investigator(s): N. Frazer & J. Gre	aves		Section, Tov	wnship, Range:			
Landform (hillside, terrace, etc.):	flat	Local relief	(concave, conve	x, none): none		Slope %:	0
Subregion (LRR or MLRA): LRR	R Lat:	43-28-56.59N	Long:	73-25-50.56W		Datum:	
Soil Map Unit Name: Vergennes	silty clay loam (VeB)			NWI classif	fication:	PSS	
Are climatic / hydrologic conditions	on the site typical for	this time of year?	Yes X	No	(If no, e	xplain in Remarks.)	
Are Vegetation, Soil	, or Hydrology	significantly disturbed?	Are "Norm	nal Circumstance	es" prese	nt? Yes <u>X</u> No	
Are Vegetation, Soil	, or Hydrology	naturally problematic?	(If needed	l, explain any an	swers in	Remarks.)	
SUMMARY OF FINDINGS -	- Attach site map	showing samplin	g point locat	ions, transed	cts, imp	portant features,	etc.
Hydrophytic Vegetation Present?	Yes X	No <b>Is</b>	the Sampled A	rea			
Hydric Soil Present?	Yes X	No w	ithin a Wetland?	? Yes	Х	No	
Wetland Hydrology Present?	Yes X	No If	yes, optional We	tland Site ID:			
Remarks: (Explain alternative pro	cedures here or in a s	eparate report.)					
Shrub swamp							

Wetland Hydrology Indicators:			Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is require	ed; check all that apply)		Surface Soil Cracks (B6)
Surface Water (A1)	Water-Stained Leaves (B9)		Drainage Patterns (B10)
High Water Table (A2)	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)	X Oxidized Rhizospheres on Living Ro	oots (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	s (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 (B	8)		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	Wetlan	d Hydrology Present? Yes X No
(includes capillary fringe)			
Describe Recorded Data (stream gauge, mor	nitoring well, aerial photos, previous inspe	ctions), if a	available:
Remarks:			
Drainage ditch present.			

Sampling Point: SA1-5 Wet

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: <u>3</u> (B)
5.           6.				Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)
7				Prevalence Index worksheet:
	:	=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15')				OBL species x 1 =
1. Cornus amomum	80	Yes	FACW	FACW species 100 x 2 = 200
2. Rhus typhina	5	No	UPL	FAC species10 x 3 =30
3. Cornus racemosa	10	No	FAC	FACU species3 x 4 =12
4. Lonicera tatarica	3	No	FACU	UPL species5 x 5 =25
5				Column Totals: 118 (A) 267 (B)
6.				Prevalence Index = $B/A = 2.26$
7.				Hydrophytic Vegetation Indicators:
	98	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5')				X 2 - Dominance Test is >50%
1. Cornus amomum	15	Yes	FACW	X 3 - Prevalence Index is ≤3.0 <sup>1</sup>
2. Phalaris arundinacea	5	Yes	FACW	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
3.				data in Remarks or on a separate sheet)
4.				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
6				<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
7				Definitions of Vegetation Strata:
8.				
9.				<b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
10 11				<b>Sapling/shrub</b> – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
12		=Total Cover		<b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum         (Plot size:30')           1.				<b>Woody vines</b> – All woody vines greater than 3.28 ft in height.
2.				
2				Hydrophytic
				Vegetation Present? Yes X No
**		=Total Cover		
Remarks: (Include photo numbers here or on a separ	rate sheet.)			

Profile Desc	ription: (Describe	to the de	epth needed to docu	ument tl	he indica	ator or co	onfirm the absence of in	dicators.)
Depth	Matrix		Redox	x Featur	es			
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-2	10YR 4/2	100					Loamy/Clayey	
2-10	10YR 4/2	90	7.5YR 2.5/3	10	C	PL/M	Loamy/Clayey	Distinct redox concentrations
10-16	10Y 5/1	91	10YR 3/6	5	C		Loamy/Clayey	Prominent redox concentrations
			10YR 5/4			<u>M</u>		Prominent redox concentrations
		etion, RI	M=Reduced Matrix, M	IS=Mas	ked Sand	d Grains.		Pore Lining, M=Matrix.
Black His Hydroge Stratified Depleted Thick Da Sandy M Sandy G Sandy R Sandy R Dark Sur <sup>3</sup> Indicators of	(A1) pipedon (A2) stic (A3) n Sulfide (A4) H Layers (A5) H Below Dark Surface ark Surface (A12) lucky Mineral (S1) plucky Mineral (S1) plucky Matrix (S4) edox (S5) Matrix (S6) face (S7) f hydrophytic vegetat		Polyvalue Belo MLRA 149B Thin Dark Surfa High Chroma S Loamy Mucky X Loamy Gleyed X Depleted Matri Redox Dark Su Depleted Dark ? Redox Depress Marl (F10) (LR	) Sands (S Mineral Matrix ( x (F3) urface (F Surface sions (F <b>R K, L</b> )	) ( <b>LRR R</b> 6511) ( <b>LRI</b> (F1) ( <b>LRI</b> F2) 6) (F7) 8)	, MLRA <sup>2</sup> R K, L) R K, L)	2 cm Muck ? Coast Prairi 5 cm Mucky Polyvalue B Thin Dark S ? Iron-Mangar Piedmont Fl Mesic Spod Red Parent Very Shallor	Problematic Hydric Soils <sup>3</sup> : (A10) (LRR K, L, MLRA 149B) ie Redox (A16) (LRR K, L, R) / Peat or Peat (S3) (LRR K, L, R) ielow Surface (S8) (LRR K, L) Surface (S9) (LRR K, L) nese Masses (F12) (LRR K, L, R) loodplain Soils (F19) (MLRA 149B) ic (TA6) (MLRA 144A, 145, 149B) Material (F21) w Dark Surface (F22) ain in Remarks)
Restrictive L	_ayer (if observed):							
Type:	non	е						
Depth (ir	nches):						Hydric Soil Present?	Yes X No
			al and Northeast Regi .usda.gov/Internet/FS					Field Indicators of Hydric Soils,



Project/Site: CHPE	City/County: Whitehall/Washington Sampling Date: 4/5/22
Applicant/Owner: TDI	State: NY Sampling Point: SA1-5 Upl
Investigator(s): N. Frazer & J. Greaves	Section, Township, Range:
Landform (hillside, terrace, etc.): flat Local	relief (concave, convex, none): none Slope %: 0
Subregion (LRR or MLRA):         LRR R         Lat:         43-28-57.02N	Long: <u>73-25-50.2W</u> Datum:
Soil Map Unit Name: Vergennes silty clay loam (VeB)	NWI classification: n/a
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes X No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrologysignificantly distu	rbed? 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 sam	npling point locations, transects, important features, etc.

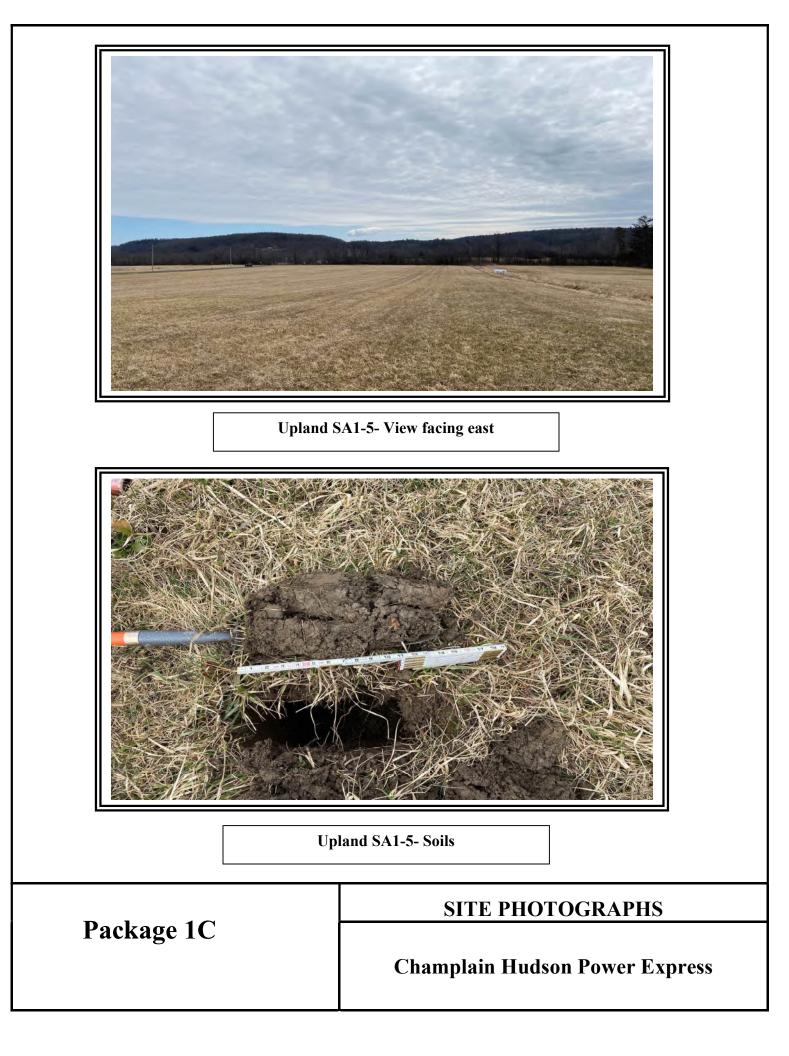
Hydrophytic Vegetation Present?	Yes	No X	Is the Sampled Area           within a Wetland?         Yes         NoX           If yes, optional Wetland Site ID:
Hydric Soil Present?	Yes	No X	
Wetland Hydrology Present?	Yes	No X	
Remarks: (Explain alternative procedu Cropland/field crops	ires here or in a	separate report.)	

Wetland Hydrology Indicators:			Secondary Indicators (mini	<u>mum of two required)</u>		
Primary Indicators (minimum of one is require	ed; check all that apply)		Surface Soil Cracks (B	6)		
Surface Water (A1)	Water-Stained Leaves (B9)		Drainage Patterns (B10)			
High Water Table (A2)	Aquatic Fauna (B13)		Moss Trim Lines (B16)			
Saturation (A3)	Marl Deposits (B15)		Dry-Season Water Tab	ole (C2)		
Water Marks (B1)	Hydrogen Sulfide Odor (C1) Crayfish Burrows (C8)					
Sediment Deposits (B2)	Oxidized Rhizospheres on Living Ro	oots (C3)	Saturation Visible on A	erial Imagery (C9)		
Drift Deposits (B3)	Presence of Reduced Iron (C4)		Stunted or Stressed Pl	ants (D1)		
Algal Mat or Crust (B4)	Recent Iron Reduction in Tilled Soil	s (C6)	Geomorphic Position (I	D2)		
Iron Deposits (B5)	Thin Muck Surface (C7)		Shallow Aquitard (D3)			
Inundation Visible on Aerial Imagery (B7	) Other (Explain in Remarks)		Microtopographic Relie	f (D4)		
Sparsely Vegetated Concave Surface (B	8)		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):	Wetlan	d Hydrology Present?	Yes No X		
(includes capillary fringe)	/					
Describe Recorded Data (stream gauge, mor	nitoring well, aerial photos, previous inspe	ections), if a	available:			
Remarks:						

Sampling Point: SA1-5 Upl

	Absolute	Dominant	Indicator	
Tree Stratum (Plot size: 30')	% Cover	Species?	Status	Dominance Test worksheet:
1				Number of Dominant Species
2				That Are OBL, FACW, or FAC: 0 (A)
3				Total Number of Dominant
4.				Species Across All Strata: 1 (B)
F				
5 6.				Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)
7				Prevalence Index worksheet:
		=Total Cover		Total % Cover of:Multiply by:
Sapling/Shrub Stratum (Plot size: 15' )				OBL species 0 x 1 = 0
1				FACW species 0 x 2 = 0
2				FAC species $2 \times 3 = 6$
3.				FACU species 113 x 4 = 452
				UPL species 0 x 5 = 0
5				
6				Prevalence Index = B/A =3.98
7				Hydrophytic Vegetation Indicators:
		=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5' )				2 - Dominance Test is >50%
1. Geranium maculatum	3	No	FACU	3 - Prevalence Index is ≤3.0 <sup>1</sup>
2. Trifolium repens	15	No	FACU	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
3. Plantago lanceolata		No	FACU	data in Remarks or on a separate sheet)
4. Galium boreale	2	No	FAC	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5. Dactylis glomerata	85	Yes	FACU	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
6				be present, unless disturbed or problematic.
7				Definitions of Vegetation Strata:
8				<b>Tree</b> – 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.				
	115	=Total Cover		<b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
Weeder Vine Other (Dist size) 201	110			
Woody Vine Stratum (Plot size: 30')				Woody vines – All woody vines greater than 3.28 ft in
1				height.
2				Hydrophytic
3				Vegetation
4				Present? Yes No X
		=Total Cover		
Remarks: (Include photo numbers here or on a separ	ate sheet.)			
	,			

Profile Desc	ription: (Describe	to the de	pth needed to docu	ument ti	he indica	ator or co	onfirm the absence of	indicators.)
Depth	Matrix		Redo	x Featur	es			
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-4	10YR 4/2	100					Loamy/Clayey	
4-15	10YR 4/2	99	10YR 4/6	1	C	M	Loamy/Clayey	Prominent redox concentrations
15-17	10YR 5/2	54	10YR 4/6	45	C	M	Loamy/Clayey	Prominent redox concentrations
			10YR 2/1	1	<u> </u>	<u> </u>		Distinct redox concentrations
<u> </u>								
	oncentration, D=Depl	etion, RN	1=Reduced Matrix, M	/IS=Mas	ked Sand	d Grains.		_=Pore Lining, M=Matrix.
Hydric Soil								or Problematic Hydric Soils <sup>3</sup> :
Histosol			Polyvalue Belo		ce (S8) (	LRR R,		ck (A10) ( <b>LRR K, L, MLRA 149B</b> )
	bipedon (A2)		MLRA 149B	,				airie Redox (A16) ( <b>LRR K, L, R</b> )
Black Hi			Thin Dark Surf					cky Peat or Peat (S3) ( <b>LRR K, L, R</b> )
	n Sulfide (A4)		High Chroma S					e Below Surface (S8) (LRR K, L)
	Layers (A5)		Loamy Mucky			R K, L)		k Surface (S9) ( <b>LRR K, L</b> )
· ·	Below Dark Surface	e (A11)	Loamy Gleyed		F2)			ganese Masses (F12) (LRR K, L, R)
	ark Surface (A12)		Depleted Matri					t Floodplain Soils (F19) ( <b>MLRA 149B</b> )
	lucky Mineral (S1)		Redox Dark Su	•	,			odic (TA6) ( <b>MLRA 144A, 145, 149B</b> )
	ileyed Matrix (S4)		Depleted Dark					ent Material (F21)
	edox (S5)		Redox Depress	``	8)			Illow Dark Surface (F22)
	Matrix (S6)		Marl (F10) ( <b>LR</b>	R K, L)			Other (E>	xplain in Remarks)
Dark Su	face (S7)							
		ion and w	vetland hydrology mu	ust be pi	resent, u	nless dist	turbed or problematic.	
	_ayer (if observed):							
Type: - Depth (ir	non nches):	e					Hydric Soil Presen	t? Yes No X
Remarks:	,							
This data for	m is revised from No 2015 Errata. (http://w							S Field Indicators of Hydric Soils,
V 0101011 7.0,						0/110014	2p2_001200.000x)	



City/County: Whitehall	Washington Sampling Date: 4/5/22
	State: NY Sampling Point: SA1-11 Wet
Section, Town	ship, Range:
Local relief (concave, convex,	none): concave Slope %: 0
Lat: <u>43-28-57.05N</u> Long: <u>7</u>	3-25-45.13W Datum:
eB)	NWI classification: PEM
I for this time of year? Yes X	No (If no, explain in Remarks.)
significantly disturbed? Are "Norma	I Circumstances" present? Yes X No
naturally problematic? (If needed, e	explain any answers in Remarks.)
map showing sampling point locatio	ns, transects, important features, etc.
X No Is the Sampled Area	a
X No within a Wetland?	Yes <u>X</u> No
X No If yes, optional Wetla	and Site ID:
cultural field.	
	VeB)       Yes X         cal for this time of year?       Yes X

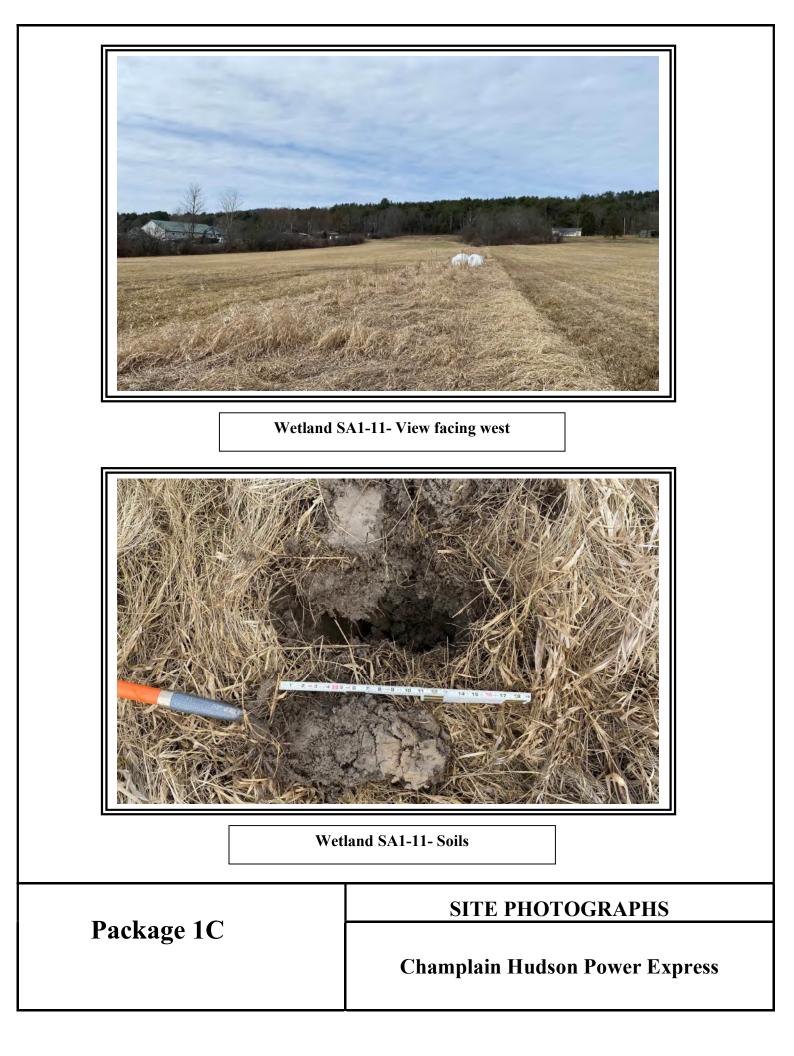
Wetland Hydrology Indicators:		5	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is require	ed; check all that apply)		Surface Soil Cracks (B6)
Surface Water (A1)	Water-Stained Leaves (B9)		Drainage Patterns (B10)
X High Water Table (A2)	Aquatic Fauna (B13)		Moss Trim Lines (B16)
X Saturation (A3)	Marl Deposits (B15)		Dry-Season Water Table (C2)
Water Marks (B1)	Hydrogen Sulfide Odor (C1)		Crayfish Burrows (C8)
Sediment Deposits (B2)	X Oxidized Rhizospheres on Living Ro	ots (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 (B	8)	_	X FAC-Neutral Test (D5)
Field Observations:			
Surface Water Present? Yes	No x Depth (inches):		
Water Table Present? Yes x	No Depth (inches): 12		
Saturation Present? Yes x	No Depth (inches): 0	Wetland	Hydrology Present? Yes X No
(includes capillary fringe)			
Describe Recorded Data (stream gauge, mor	nitoring well, aerial photos, previous inspe		
December i eeer aca Data (et ean gaage, me	······································	ctions), if av	allable:
		ctions), if av	allable:
		ctions), if av	'allable:
Remarks:		ctions), if av	allable:
		ctions), if av	allable:
		ctions), if av	allable:
		ctions), if av	allable:
		ctions), if av	allable:
		ctions), if av	'allable:
		ctions), if av	allable:
		ctions), if av	'allable:
		ctions), if av	'allable:

Sampling Point: SA1-11 Wet

Tree Stratum (Plot size:30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1.       2.				Number of Dominant Species That Are OBL, FACW, or FAC:1 (A)
3.       4.				Total Number of Dominant Species Across All Strata: 1 (B)
5.           6.				Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)
7				Prevalence Index worksheet:
		=Total Cover		Total % Cover of:Multiply by:
Sapling/Shrub Stratum (Plot size: 15')				OBL species 15 x 1 = 15
1				FACW species 92 x 2 = 184
2.				FAC species $0 \times 3 = 0$
3.				FACU species 0 x 4 = 0
4				UPL species 0 x 5 = 0
5.				Column Totals: 107 (A) 199 (B)
				Prevalence Index = $B/A = 1.86$
o 7.				Hydrophytic Vegetation Indicators:
··		=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Hark Stratum (Diataiza)				X 2 - Dominance Test is >50%
Herb Stratum (Plot size: 5')	00	Mara	54.014/	
1. Phalaris arundinacea	92	Yes	FACW	X 3 - Prevalence Index is ≤3.0 <sup>1</sup>
2. Lythrum salicaria		No	OBL	4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
3. Juncus effusus	5	No	OBL	
4				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
6				be present, unless disturbed or problematic.
7				Definitions of Vegetation Strata:
8				<b>Tree</b> – 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.				
	107	=Total Cover		<b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size: 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 sepa	rate sheet.)			

#### SOIL

Profile Desc	cription: (Describe	to the de	pth needed to docu	ument ti	ne indica	tor or co	onfirm the absence of in	ndicators.)
Depth	Matrix		Redo	x Featur	es			
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-6	10YR 4/1	98	7.5YR 4/6	2	С	PL	Loamy/Clayey	Prominent redox concentrations
6-16	10YR 5/1	65	10YR 4/6	35	C	M	Loamy/Clayey	Prominent redox concentrations
<sup>1</sup> Type: C=C	oncentration, D=Dep	letion, RM		/IS=Masl	ked Sanc	Grains.	<sup>2</sup> Location: PL=	Pore Lining, M=Matrix.
<sup>1</sup> Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains         Hydric Soil Indicators:       Polyvalue Below Surface (S8) (LRR R,         Histic Epipedon (A2)       MLRA 149B)         Black Histic (A3)       Thin Dark Surface (S9) (LRR R, MLRA         Hydrogen Sulfide (A4)       High Chroma Sands (S11) (LRR K, L)         Stratified Layers (A5)       Loamy Mucky Mineral (F1) (LRR K, L)         Depleted Below Dark Surface (A11)       Loamy Gleyed Matrix (F2)         X       Depleted Matrix (F3)         Sandy Mucky Mineral (S1)       Redox Dark Surface (F6)         Sandy Redox (S5)       Redox Depressions (F8)         Stripped Matrix (S6)       Marl (F10) (LRR K, L)         Dark Surface (S7) <sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless distribution					, MLRA 1 R K, L) R K, L)	2 cm Muck ? Coast Prain 5 cm Muck Polyvalue B Thin Dark 3 Iron-Manga Piedmont F Mesic Spoo Red Paren Very Shallo Other (Exp	Problematic Hydric Soils <sup>3</sup> : (A10) (LRR K, L, MLRA 149B) rie Redox (A16) (LRR K, L, R) sy Peat or Peat (S3) (LRR K, L, R) Below Surface (S8) (LRR K, L) Surface (S9) (LRR K, L) anese Masses (F12) (LRR K, L, R) Floodplain Soils (F19) (MLRA 149B) dic (TA6) (MLRA 144A, 145, 149B) t Material (F21) bw Dark Surface (F22) Ilain in Remarks)	
	Layer (if observed):							
Type:	nor						Hydric Soil Brocost	
Depth (ii							Hydric Soil Present?	? Yes X No
	m is revised from No 2015 Errata. (http://v							Field Indicators of Hydric Soils,



Project/Site: CHPE		City/Cou	inty: Whiteha	all/Washington	5	Sampling Date: <u>4/5/22</u>
Applicant/Owner: TDI				State:	NY	Sampling Point: SA1-11 U
Investigator(s): N. Frazer & J. Gre	eaves		Section, Tov	wnship, Range:		
Landform (hillside, terrace, etc.):	flat	Local relief (con	cave, conve	x, none): <u>none</u>		Slope %: 0
Subregion (LRR or MLRA): LRR	R Lat:	43-28-57.51N	Long:	73-25-45.03W		Datum:
Soil Map Unit Name: Vergennes	silty clay loam (VeB)			NWI classif	ication:	n/a
Are climatic / hydrologic conditions	on the site typical for	this time of year?	Yes X	No	(If no, ex	plain in Remarks.)
Are Vegetation, Soil	, or Hydrology	significantly disturbed?	Are "Norm	nal Circumstance	s" preser	nt? Yes X No
Are Vegetation, Soil	, or Hydrology	naturally problematic?	(If needed	l, explain any ans	swers in I	Remarks.)
SUMMARY OF FINDINGS	– Attach site map	showing sampling po	oint locat	ions, transec	ts, imp	oortant features, etc.

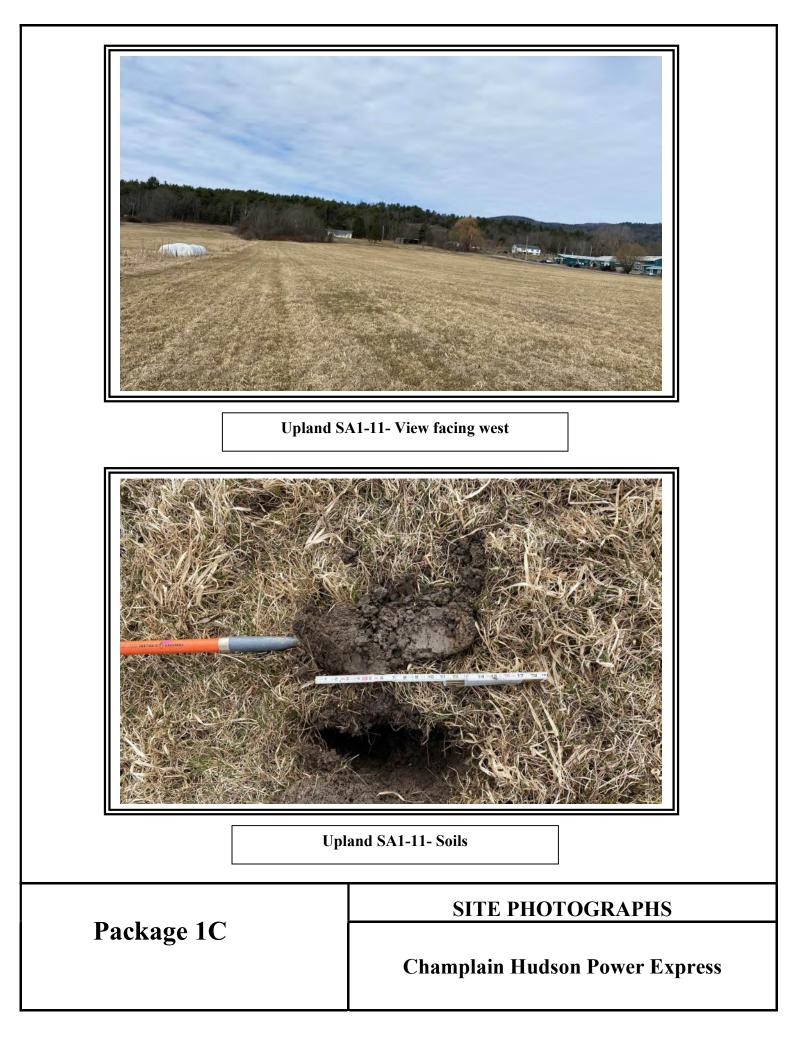
Hydrophytic Vegetation Present?	Yes	No X	Is the Sampled Area
Hydric Soil Present?	Yes X	No	within a Wetland? Yes No X
Wetland Hydrology Present?	Yes	No X	If yes, optional Wetland Site ID:
Remarks: (Explain alternative procedures l cropland/field crops	iere or in a se	parate report.)	

		Secondary Indicators (minimum of two required)			
Primary Indicators (minimum of one is required; check all that apply)					
Surface Water (A1)Water-Stained Leaves (B9)					
High Water Table (A2)     Aquatic Fauna (B13)					
Saturation (A3) Marl Deposits (B15)					
Hydrogen Sulfide Odor (C1)		Crayfish Burrows (C8)			
Oxidized Rhizospheres on Living Ro	oots (C3)	Saturation Visible on Aerial Imagery (C9)			
Presence of Reduced Iron (C4)		Stunted or Stressed Plants (D1)			
Recent Iron Reduction in Tilled Soil	s (C6)	Geomorphic Position (D2)			
Thin Muck Surface (C7)		Shallow Aquitard (D3)			
) Other (Explain in Remarks)		Microtopographic Relief (D4)			
8)		FAC-Neutral Test (D5)			
No x Depth (inches):					
No x Depth (inches):					
No x Depth (inches):	Wetlan	Wetland Hydrology Present? Yes No X			
nitoring well, aerial photos, previous inspe	ections), if a	available:			
	Water-Stained Leaves (B9)         Aquatic Fauna (B13)         Marl Deposits (B15)         Hydrogen Sulfide Odor (C1)         Oxidized Rhizospheres on Living Roots (C3)         Presence of Reduced Iron (C4)         Recent Iron Reduction in Tilled Soils (C6)         Thin Muck Surface (C7)         Other (Explain in Remarks)         8)         No       x         Depth (inches):         No       x				

Sampling Point: SA1-11 Upl

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				Total Number of Dominant Species Across All Strata:1(B)
5.           6.				Percent of Dominant Species That Are OBL, FACW, or FAC:0.0% (A/B)
7				Prevalence Index worksheet:
		=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size:15')				OBL species x 1 =
1				FACW species 0 x 2 = 0
2.				FAC species 2 x 3 = 6
3.				FACU species 105 x 4 = 420
4.				UPL species 0 x 5 = 0
5				Column Totals: 107 (A) 426 (B)
				Prevalence Index = $B/A = 3.98$
o 7.				Hydrophytic Vegetation Indicators:
/·		=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5')				2 - Dominance Test is >50%
	90	Voo		$\frac{2}{3} - \text{Prevalence Index is } \leq 3.0^{1}$
1. Dactylis glomerata	<u> </u>	Yes	FACU	
2. Geranium maculatum	5	No	FACU	4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
3. Trifolium repens		No	FACU	
4. <u>Galium boreale</u>	2	No	FAC	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
6				be present, unless disturbed or problematic.
7				Definitions of Vegetation Strata:
8				<b>Tree</b> – 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
	107	=Total Cover		of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size:30')				Woody vines – All woody vines greater than 3.28 ft in
1				height.
2.				
3.				Hydrophytic
4.				Vegetation Present? Yes No X
		=Total Cover		
Remarks: (Include photo numbers here or on a sepa				

Profile Desc	ription: (Describe t	to the de	pth needed to docu	ument tl	ne indica	ator or co	onfirm the absence o	of indicators.)
Depth	Matrix		Redo	x Featur	es			
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-4	10YR 4/2	100					Loamy/Clayey	
4-14	10YR 4/2	95	10YR 5/4	5	C	M	Loamy/Clayey	Distinct redox concentrations
14-17	10YR 5/1	60	10YR 3/6	40	С	Μ	Loamy/Clayey	Prominent redox concentrations
<sup>1</sup> Type: C=Co	oncentration, D=Depl	etion, RM	1=Reduced Matrix, N	/IS=Mas	ked Sand	d Grains.		PL=Pore Lining, M=Matrix.
Hydric Soil								for Problematic Hydric Soils <sup>3</sup> :
Histosol			Polyvalue Belo		ce (S8) (I	LRR R,		uck (A10) ( <b>LRR K, L, MLRA 149B</b> )
	bipedon (A2)		MLRA 149B Thin Dark Surf	<i>'</i>				Prairie Redox (A16) (LRR K, L, R)
Black His	n Sulfide (A4)		High Chroma S					ucky Peat or Peat (S3) ( <b>LRR K, L, R</b> ) ue Below Surface (S8) ( <b>LRR K, L</b> )
	I Layers (A5)		Loamy Mucky					Irk Surface (S9) (LRR K, L)
	Below Dark Surface	e (A11)	Loamy Gleyed			, _/		nganese Masses (F12) ( <b>LRR K, L, R</b> )
· ·	ark Surface (A12)	( )	X Depleted Matri		,			nt Floodplain Soils (F19) ( <b>MLRA 149B</b> )
Sandy N	lucky Mineral (S1)		Redox Dark Su	urface (F	6)		Mesic S	podic (TA6) ( <b>MLRA 144A, 145, 149B</b> )
Sandy G	ileyed Matrix (S4)		Depleted Dark	Surface	(F7)		Red Pa	rent Material (F21)
	edox (S5)		? Redox Depress	``	8)			allow Dark Surface (F22)
	Matrix (S6)		Marl (F10) ( <b>LR</b>	R K, L)			Other (E	Explain in Remarks)
Dark Su	face (S7)							
<sup>3</sup> Indicators of	f hydrophytic vegetati	ion and w	etland hydrology mu	ist he nr	esent ur	nless dist	urbed or problematic.	
	_aver (if observed):		iotana nyarology ma			1000 0101		
Type:	non	е						
Depth (ir	nches):						Hydric Soil Prese	nt? Yes <u>X</u> No
Remarks:							•	
	m is revised from No 2015 Errata. (http://w							CS Field Indicators of Hydric Soils,
			-	_				



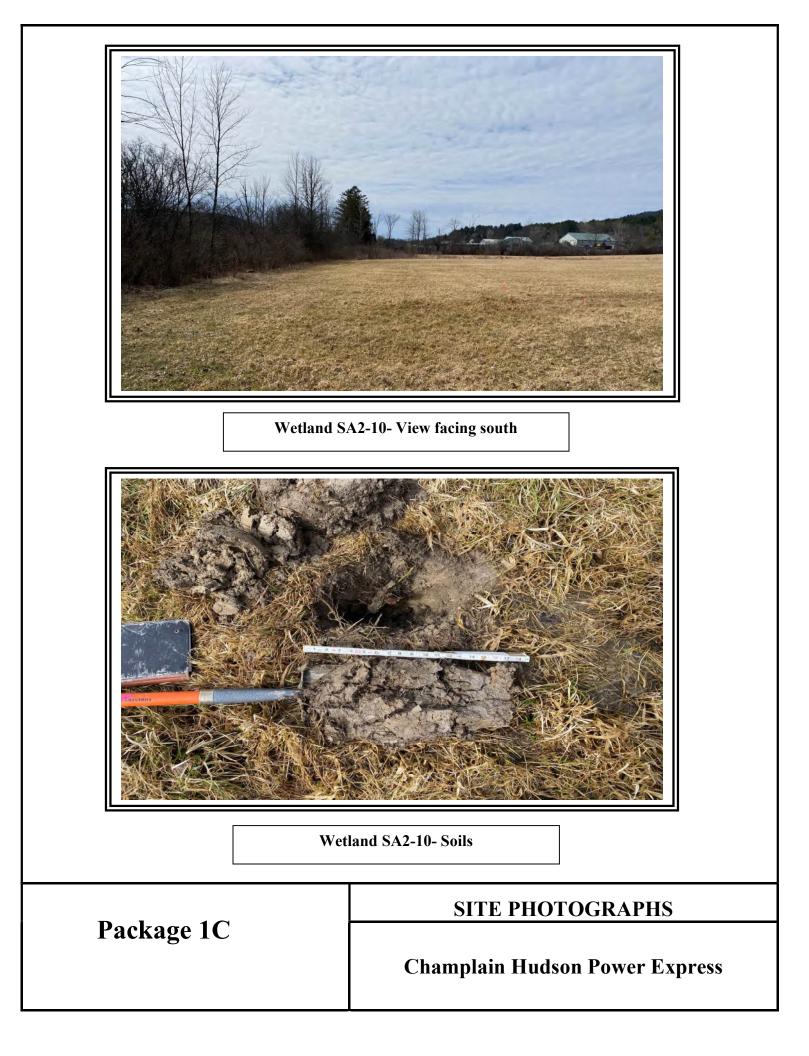
Project/Site: CHPE	City/County: Whitehall/Washington Sampling Date: 4/5/22
Applicant/Owner: TDI	State: NY Sampling Point: SA2-10 Wet
Investigator(s): N. Frazer & J. Greaves	Section, Township, Range:
Landform (hillside, terrace, etc.): depression	Local relief (concave, convex, none): concave Slope %: 0
Subregion (LRR or MLRA): LRR R Lat: 4	3-28-59.04N Long: 73-25-41.39W Datum:
Soil Map Unit Name: Kingsbury silty clay (KbA)	NWI classification: PEM
Are climatic / hydrologic conditions on the site typical for thi	is time of year? Yes X No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrologys	ignificantly disturbed? Are "Normal Circumstances" present? Yes X No
Are Vegetation, Soil, or Hydrologyn	aturally problematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map s	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 sep Shallow emergent marsh.	parate report.)

HYDROLOGY				
Wetland Hydrology Indicators:		Secondary Indicators (minin	num of two required)	
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)			
Surface Water (A1) Water-Stained Leaves (B9)		Drainage Patterns (B10	))	
X High Water Table (A2) Aquatic Fauna (B13)		Moss Trim Lines (B16)		
X Saturation (A3) Marl Deposits (B15)		Dry-Season Water Tabl	le (C2)	
Water Marks (B1) Hydrogen Sulfide Odor (C1)		Crayfish Burrows (C8)		
Sediment Deposits (B2) X Oxidized Rhizospheres on Living Ro	oots (C3)	Saturation Visible on A	erial Imagery (C9)	
Drift Deposits (B3) Presence of Reduced Iron (C4)		Stunted or Stressed Pla	ants (D1)	
Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils	s (C6)	X Geomorphic Position (D	02)	
Iron Deposits (B5) Thin Muck Surface (C7)		Shallow Aquitard (D3)		
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks)		Microtopographic Relief	f (D4)	
Sparsely Vegetated Concave Surface (B8)		X FAC-Neutral Test (D5)		
Field Observations:				
Surface Water Present? Yes No _x _ Depth (inches):				
Water Table Present?     Yes     x     No     Depth (inches):     8				
Saturation Present? Yes x No Depth (inches): 0	Wetland	d Hydrology Present?	Yes X No	
(includes capillary fringe)				
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec	ctions), if a	vailable:		
Remarks:				

Sampling Point: SA2-10 Wet

Tree Stratum (Plot size:30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1.       2.				Number of Dominant Species That Are OBL, FACW, or FAC:1 (A)
3 4				Total Number of Dominant Species Across All Strata:1(B)
5.           6.				Percent of Dominant Species That Are OBL, FACW, or FAC:100.0% (A/B)
7				Prevalence Index worksheet:
		=Total Cover		Total % Cover of:Multiply by:
Sapling/Shrub Stratum (Plot size: 15')				OBL species 5 x 1 = 5
1				FACW species 75 x 2 = 150
2.				FAC species $0 \times 3 = 0$
3.				FACU species 0 x 4 = 0
4				UPL species $0 \times 5 = 0$
5.				Column Totals: 80 (A) 155 (B)
				Prevalence Index = $B/A = 1.94$
o 7.				Hydrophytic Vegetation Indicators:
··		=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Harb Stratum (Distaire) E'				X 2 - Dominance Test is >50%
Herb Stratum (Plot size: 5')	75	Vee		
1. Phalaris arundinacea		Yes	FACW	X_3 - Prevalence Index is ≤3.0 <sup>1</sup> 4 - Morphological Adaptations <sup>1</sup> (Provide supporting
2. Juncus effusus	5	No	OBL	data in Remarks or on a separate sheet)
3. <u>Carex sp.</u>	10	No		
4				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
6				be present, unless disturbed or problematic.
7				Definitions of Vegetation Strata:
8				<b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in
9				diameter at breast height (DBH), regardless of height.
10				Sapling/shrub – Woody plants less than 3 in. DBH
11				and greater than or equal to 3.28 ft (1 m) tall.
12				Herb – All herbaceous (non-woody) plants, regardless
	90	=Total Cover		of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size: 30')				Woody vines – All woody vines greater than 3.28 ft in
1				height.
2				
3.				Hydrophytic Vegetation
4.				Present? Yes X No
		=Total Cover		
Remarks: (Include photo numbers here or on a separ	rate sheet.)			
	,			

Profile Desc	ription: (Describe	to the de	epth needed to docu	iment tl	he indica	ator or c	onfirm the absence o	f indicators.)
Depth	Matrix		Redox	<pre>&lt; Featur</pre>	es			
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-7	10YR 4/1	90	10YR 6/8	5	C	M	Loamy/Clayey	Prominent redox concentrations
			10YR 3/6	5	C	PL/M		Prominent redox concentrations
7-12	10YR 4/1	75	10YR 3/6	25	C	PL/M	Loamy/Clayey	Prominent redox concentrations
12-16	10YR 4/1	65	10YR 5/8	35	C	M	Loamy/Clayey	Prominent redox concentrations
<sup>1</sup> Type: C=Co	oncentration, D=Dep	etion, RI	M=Reduced Matrix, N	IS=Mas	ked Sand	d Grains.	<sup>2</sup> Location: F	PL=Pore Lining, M=Matrix.
Hydric Soil I	ndicators:						Indicators f	or Problematic Hydric Soils <sup>3</sup> :
Histosol	(A1)		Polyvalue Belo	w Surfa	ce (S8) (	LRR R,	2 cm Mu	uck (A10) ( <b>LRR K, L, MLRA 149B</b> )
Histic Ep	ipedon (A2)		MLRA 149B	)			? Coast P	rairie Redox (A16) ( <b>LRR K, L, R</b> )
Black His	stic (A3)		Thin Dark Surfa	ace (S9)	) (LRR R	, MLRA <sup>·</sup>	149B) 5 cm Mu	ucky Peat or Peat (S3) (LRR K, L, R)
Hydroge	n Sulfide (A4)		High Chroma S	ands (S	611) ( <b>LRI</b>	R K, L)	Polyvalu	ie Below Surface (S8) ( <b>LRR K, L</b> )
Stratified	Layers (A5)		Loamy Mucky I	Vineral	(F1) ( <b>LR</b>	R K, L)	Thin Da	rk Surface (S9) ( <b>LRR K, L</b> )
Depleted	Below Dark Surface	e (A11)	Loamy Gleyed	Matrix (	F2)		Iron-Mai	nganese Masses (F12) ( <b>LRR K, L, R</b> )
Thick Da	rk Surface (A12)		X Depleted Matrix	k (F3)			Piedmor	nt Floodplain Soils (F19) ( <b>MLRA 149B</b> )
Sandy M	ucky Mineral (S1)		Redox Dark Su	rface (F	6)		Mesic S	podic (TA6) ( <b>MLRA 144A, 145, 149B</b> )
Sandy G	leyed Matrix (S4)		Depleted Dark	Surface	(F7)		Red Par	ent Material (F21)
Sandy R	edox (S5)		? Redox Depress	sions (Fa	8)		Very Sh	allow Dark Surface (F22)
Stripped	Matrix (S6)		Marl (F10) ( <b>LR</b>	<b>R K, L</b> )			Other (E	Explain in Remarks)
Dark Sur	face (S7)							
<sup>3</sup> Indicators of	hydrophytic vegetat	ion and v	wetland hydrology mu	ist be pr	resent, ur	nless dist	turbed or problematic.	
_	ayer (if observed):							
Type:	non	е						
Depth (ir	iches):						Hydric Soil Prese	nt? Yes <u>X</u> No
			•					CS Field Indicators of Hydric Soils,
version 7.0,	2015 Enala. (http://w	ww.nrcs	.usda.gov/Internet/FS			5/IICS 14	-2p2_051293.docx)	



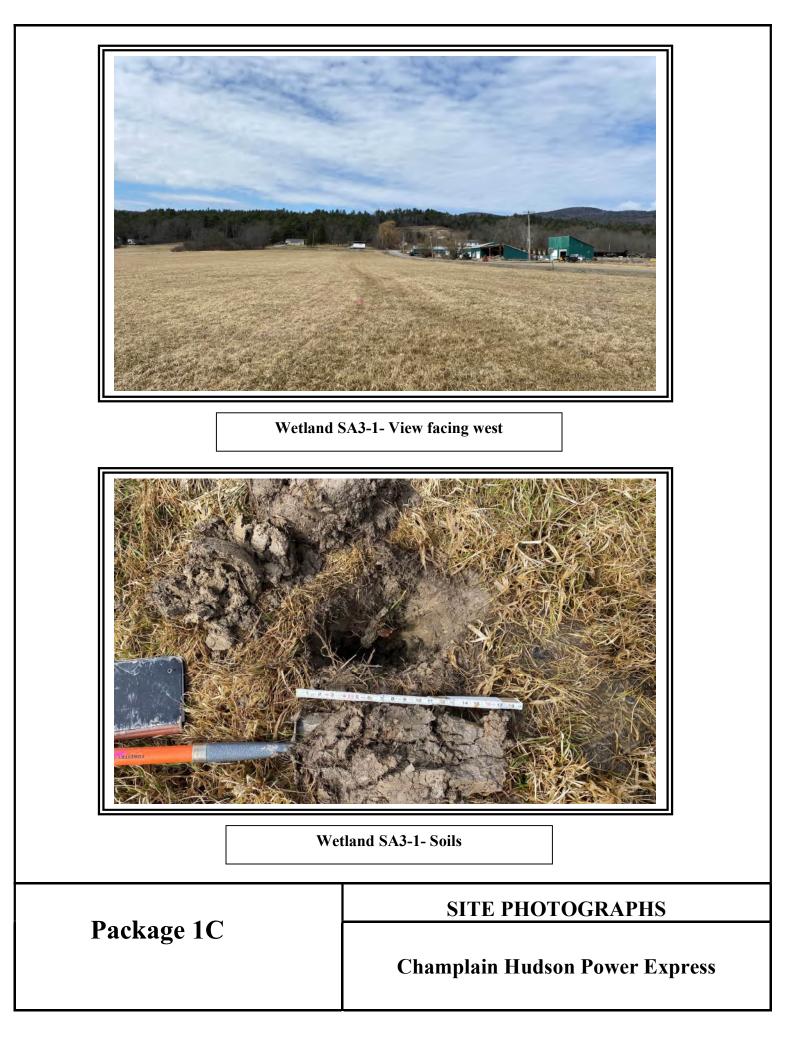
Project/Site: CHPE	City/County: Whitehall/Washington Sampling Date: 4/5/2	2					
Applicant/Owner: TDI	State: NY Sampling Point: sa	3-1 Wet					
Investigator(s): N. Frazer & J. Greaves	Section, Township, Range:						
Landform (hillside, terrace, etc.): depression	Local relief (concave, convex, none): concave Slope %:	0					
Subregion (LRR or MLRA): LRR R	Lat: 43-28-59.04N Long: 73-25-41.39W Datum:						
Soil Map Unit Name: Kingsbury silty clay (KbA)	NWI classification: PEM						
Are climatic / hydrologic conditions on the site typi	ical for this time of year? Yes X No (If no, explain in Remarks.)						
Are Vegetation, Soil, or Hydrology	ysignificantly disturbed? Are "Normal Circumstances" present? Yes X No						
Are Vegetation, Soil, or Hydrology	ynaturally problematic? (If needed, explain any answers in Remarks.)						
SUMMARY OF FINDINGS – Attach site	e map showing sampling point locations, transects, important features,	etc.					
Hydrophytic Vegetation Present? Yes	s X No Is the Sampled Area						
Hydric Soil Present? Yes	s X No within a Wetland? Yes X No						
Wetland Hydrology Present? Yes	s X No If yes, optional Wetland Site ID:						
Remarks: (Explain alternative procedures here or in a separate report.) Isolated shallow emergent marsh. Depression within an agricultural field.							

Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)							
Primary Indicators (minimum of one is require	Surface Soil Cracks (B6)							
Surface Water (A1)	Drainage Patterns (B10)							
X High Water Table (A2)	Moss Trim Lines (B16)							
X Saturation (A3)	Marl Deposits (B15)	Dry-Season Water Table (C2)						
Water Marks (B1)	Water Marks (B1) Hydrogen Sulfide Odor (C1)							
Sediment Deposits (B2)	C3) Saturation Visible on Aerial Imagery (C9)							
Drift Deposits (B3)	Drift Deposits (B3) Presence of Reduced Iron (C4)							
Algal Mat or Crust (B4)	) X Geomorphic Position (D2)							
Iron Deposits (B5)	Iron Deposits (B5) Thin Muck Surface (C7)							
Inundation Visible on Aerial Imagery (B7	Other (Explain in Remarks)	Microtopographic Relief (D4)						
Sparsely Vegetated Concave Surface (B	8)	X FAC-Neutral Test (D5)						
Field Observations:								
Surface Water Present? Yes	No x Depth (inches):							
Water Table Present? Yes x	No Depth (inches): 8							
Saturation Present? Yes x	No Depth (inches): 0 W	/etland Hydrology Present? Yes X No						
(includes capillary fringe)								
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:								
Remarks:								
No inlet or outlet.								

Sampling Point: SA3-1 Wet

<u>Tree Stratum</u> (Plot size: <u>30'</u> )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:		
1 2.				Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)		
3.						
4.				Total Number of Dominant Species Across All Strata: 1 (B)		
5				Percent of Dominant Species		
6 7				That Are OBL, FACW, or FAC:(A/B) Prevalence Index worksheet:		
7		=Total Cover		Total % Cover of: Multiply by:		
Sapling/Shrub Stratum (Plot size: 15')				$\frac{1}{\text{OBL species}} = 5$		
1				FACW species 75 $x 2 = 150$		
				FAC species $0 \times 3 = 0$		
3				FACU species $0   x 4 = 0$		
				UPL species $0 \times 5 = 0$		
5				Column Totals:         80         (A)         155         (B)		
6				$\frac{133}{\text{Prevalence Index} = B/A = 1.94}$		
7				Hydrophytic Vegetation Indicators:		
7		=Total Cover		1 - Rapid Test for Hydrophytic Vegetation		
Light Charter (Distaire)						
Herb Stratum (Plot size: 5')	75	X	54.014	X 2 - Dominance Test is >50%		
1. Phalaris arundinacea		Yes	FACW	X 3 - Prevalence Index is $≤3.0^{1}$		
2. Juncus effusus		No	OBL	4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)		
3. <u>Carex sp.</u>	10	No				
4				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)		
5.				<sup>1</sup> Indicators of hydric soil and wetland hydrology must		
6.				be present, unless disturbed or problematic.		
7				Definitions of Vegetation Strata:		
8 9.				<b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.		
9 10				diameter at breast neight (DBH), regardless of height.		
11				<b>Sapling/shrub</b> – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.		
12	90	=Total Cover		<b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.		
Woody Vine Stratum (Plot size: 30')						
1				Woody vines – All woody vines greater than 3.28 ft in height.		
2				Under a britte		
3				Hydrophytic Vegetation		
4				Present? Yes X No		
	:	=Total Cover				
Remarks: (Include photo numbers here or on a separ	rate sheet.)					

Profile Desc	Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)									
Depth	Matrix		Redox	k Featur						
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks		
0-7	10YR 4/1	90	10YR 6/8	5	C	M	Loamy/Clayey	Prominent redox concentrations		
			10YR 3/6	5	C	PL/M		Prominent redox concentrations		
7-12	10YR 4/1	75	10YR 3/6	25	С	PL/M	Loamy/Clayey	Prominent redox concentrations		
12-16	10YR 4/1	65	10YR 5/8	35	C	М	Loamy/Clayey	Prominent redox concentrations		
		etion, RI	M=Reduced Matrix, M	IS=Mas	ked Sano	d Grains.		=Pore Lining, M=Matrix.		
Hydric Soil I					( <b>-</b> -) (			r Problematic Hydric Soils <sup>3</sup> :		
Histosol (	( )		Polyvalue Belo		ce (S8) (	LRR R,		k (A10) ( <b>LRR K, L, MLRA 149B</b> )		
· ·	ipedon (A2)		MLRA 149B)					airie Redox (A16) ( <b>LRR K, L, R</b> )		
Black His	( )		Thin Dark Surfa					ky Peat or Peat (S3) ( <b>LRR K, L, R</b> )		
Hydroger	n Sulfide (A4)		High Chroma S	Sands (S	611) ( <b>LR</b> I	R K, L)	Polyvalue	Below Surface (S8) (LRR K, L)		
Stratified	Layers (A5)		Loamy Mucky N	Mineral	(F1) ( <b>LR</b>	R K, L)	Thin Dark	Surface (S9) (LRR K, L)		
Depleted	Below Dark Surface	e (A11)	Loamy Gleyed	Matrix (	F2)		Iron-Mang	ganese Masses (F12) ( <b>LRR K, L, R</b> )		
Thick Da	rk Surface (A12)		X Depleted Matrix	x (F3)			Piedmont	Floodplain Soils (F19) ( <b>MLRA 149B</b> )		
I ——	ucky Mineral (S1)		Redox Dark Su	• •	6)			odic (TA6) ( <b>MLRA 144A, 145, 149B</b> )		
				`	,					
	leyed Matrix (S4)		Depleted Dark					nt Material (F21)		
	edox (S5)		? Redox Depress	``	8)			low Dark Surface (F22)		
Stripped	Matrix (S6)		Marl (F10) ( <b>LR</b>	<b>R K, L</b> )			Other (Ex	plain in Remarks)		
Dark Sur	face (S7)									
<sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.										
	ayer (if observed):									
Type: -	non	е								
Depth (in	ches):						Hydric Soil Present	? Yes X No		
Remarks:										
			al and Northeast Regi .usda.gov/Internet/FS					S Field Indicators of Hydric Soils,		
		//////03	.usua.gov/internet/r c			0/11/03/14	2p2_031293.000x)			



## WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: CHPE	City/County: Whitehall/Washington Sampling Date: 4/5/22
Applicant/Owner: TDI	State: NY Sampling Point: SA4-2 Wet
Investigator(s): N. Frazer & J. Greaves	Section, Township, Range:
Landform (hillside, terrace, etc.): ditch	cal relief (concave, convex, none): <u>concave</u> Slope %: <u>1</u>
Subregion (LRR or MLRA):         LRR R         Lat:         43-29-1.15N	Long: <u>73-25-41.79W</u> Datum:
Soil Map Unit Name: Kingsbury silty clay (KbA)	NWI classification: PEM
Are climatic / hydrologic conditions on the site typical for this time of year	r? Yes X No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrologysignificantly di	sturbed? Are "Normal Circumstances" present? Yes X No
Are Vegetation, Soil, or Hydrology naturally problem	ematic? (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	If yes, optional Wetland Site ID:
Remarks: (Explain alternative procedures here or in a separate report. Linear vegetated roadside ditch.	)
HYDROLOGY	

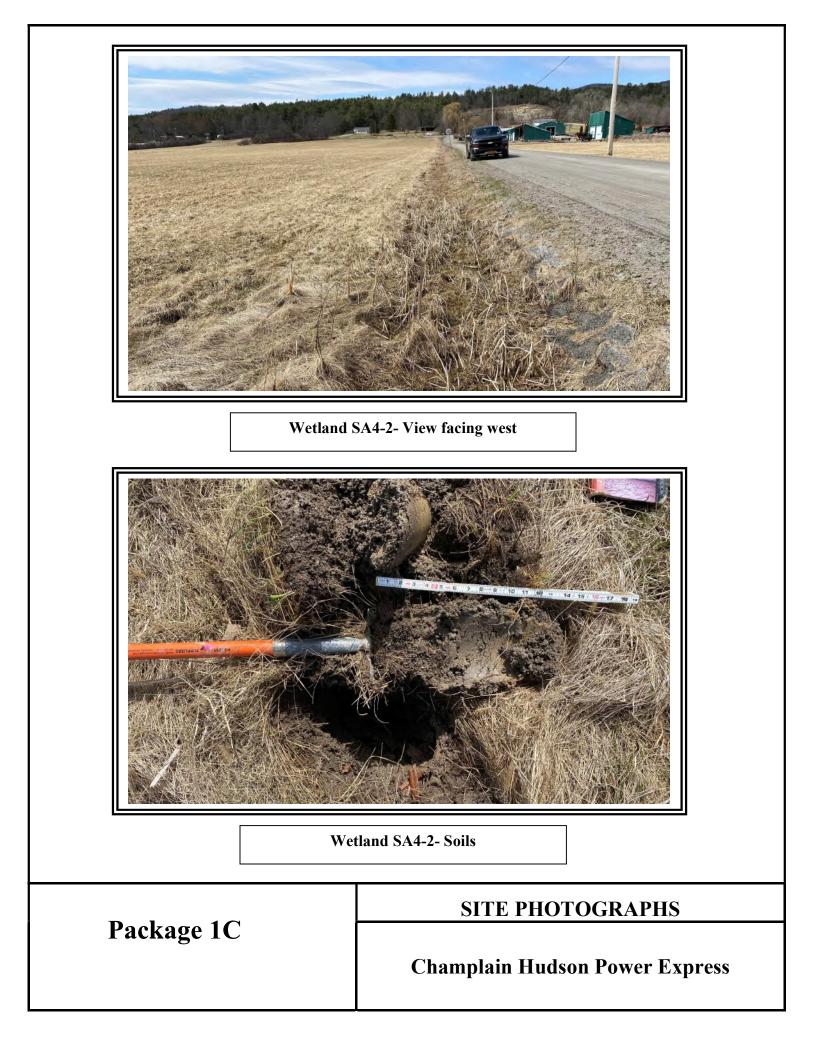
Wetland Hydrology Indicators:			Secondary Indicators (minimum of two required)		
Primary Indicators (minimum of one is require	Surface Soil Cracks (B6)				
Surface Water (A1)	Drainage Patterns (B10)				
X High Water Table (A2)	Aquatic Fauna (B13)	Moss Trim Lines (B16)			
X Saturation (A3)	Marl Deposits (B15)		Dry-Season Water Table (C2)		
Water Marks (B1)	Hydrogen Sulfide Odor (C1)		Crayfish Burrows (C8)		
Sediment Deposits (B2)	Oxidized Rhizospheres on Living Ro	oots (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	s (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 (B	8)		X FAC-Neutral Test (D5)		
Field Observations:					
Surface Water Present? Yes	No x Depth (inches):				
Water Table Present? Yes x	No Depth (inches): 10				
Saturation Present? Yes x	No Depth (inches): 0	Wetlan	d Hydrology Present? Yes X No		
Saturation Present? Yes <u>x</u> (includes capillary fringe)	No Depth (inches):0	Wetlan	d Hydrology Present? Yes X No		
	· · · /				
(includes capillary fringe)	· · · /				
(includes capillary fringe) Describe Recorded Data (stream gauge, mor	· · · /				
(includes capillary fringe)	· · · /				
(includes capillary fringe) Describe Recorded Data (stream gauge, mor	· · · /				
(includes capillary fringe) Describe Recorded Data (stream gauge, mor	· · · /				
(includes capillary fringe) Describe Recorded Data (stream gauge, mor	· · · /				
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(includes capillary fringe) Describe Recorded Data (stream gauge, mor	· · · /				
(includes capillary fringe) Describe Recorded Data (stream gauge, mor	· · · /				
(includes capillary fringe) Describe Recorded Data (stream gauge, mor	· · · /				

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

Sampling Point: SA4-2 Wet

<u>Tree Stratum</u> (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1.				
2.				Number of Dominant Species           That Are OBL, FACW, or FAC:         1         (A)
3				Total Number of Dominant
4				Species Across All Strata: 1 (B)
5				Percent of Dominant Species
6				That Are OBL, FACW, or FAC: 100.0% (A/B)
7				Prevalence Index worksheet:
		=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15')				OBL species 72 x 1 = 72
1				FACW species 10 x 2 = 20
2				FAC species x 3 =
3				FACU species x 4 = 8
4				UPL species 0 x 5 = 0
5.				Column Totals: 84 (A) 100 (B)
6.				Prevalence Index = B/A = 1.19
7.				Hydrophytic Vegetation Indicators:
		=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5')				X 2 - Dominance Test is >50%
1. Typha angustifolia	70	Yes	OBL	X 3 - Prevalence Index is $\leq 3.0^{1}$
2. Carex sp.	8	<u> </u>		4 - Morphological Adaptations <sup>1</sup> (Provide supporting
	10			data in Remarks or on a separate sheet)
3. Phalaris arundinacea		No	FACW	
4. Lythrum salicaria	2	No	OBL	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
6				be present, unless disturbed or problematic.
7				Definitions of Vegetation Strata:
8				<b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in
9				diameter at breast height (DBH), regardless of height.
10				Sapling/shrub – Woody plants less than 3 in. DBH
11				and greater than or equal to 3.28 ft (1 m) tall.
12				Herb – All herbaceous (non-woody) plants, regardless
	90	=Total Cover		of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size: 30')				Woody vines – All woody vines greater than 3.28 ft in
1. Vitis aestivalis	2	No	FACU	height.
2.				
3.				Hydrophytic Monototics
4.				Vegetation Present? Yes X No
	2	=Total Cover		
Remarks: (Include photo numbers here or on a sepa		-		

Depth       Matrix       Redox Features         (inches)       Color (moist)       %       Type       Loamy/Clayey         0-5       10YR 4/1       100
0-5       10YR 4/1       100       Loamy/Clayey         5-10       10YR 4/1       95       10YR 4/6       5       C       M       Loamy/Clayey       Prominent redox concentrations         10-16       10YR 4/1       75       10YR 4/6       5       C       M       Loamy/Clayey       Prominent redox concentrations         10-16       10YR 4/1       75       10YR 4/6       25       C       M       Loamy/Clayey       Prominent redox concentrations         10-16       10YR 4/1       75       10YR 4/6       25       C       M       Loamy/Clayey       Prominent redox concentrations         10-16       10YR 4/1       75       10YR 4/6       25       C       M       Loamy/Clayey       Prominent redox concentrations         10-16       10YR 4/1       75       10YR 4/6       25       C       M       Loamy/Clayey       Prominent redox concentrations         10-16       10YR 4/1       75       10YR 4/1       10       Interview
5-10       10YR 4/1       95       10YR 4/6       5       C       M       Loamy/Clayey       Prominent redox concentrations         10-16       10YR 4/1       75       10YR 4/6       25       C       M       Loamy/Clayey       Prominent redox concentrations         10-16       10YR 4/1       75       10YR 4/6       25       C       M       Loamy/Clayey       Prominent redox concentrations         10-16       10YR 4/1       75       10YR 4/6       25       C       M       Loamy/Clayey       Prominent redox concentrations         10-16       10YR 4/1       75       10YR 4/6       25       C       M       Loamy/Clayey       Prominent redox concentrations         10-16       10YR 4/1       75       10YR 4/6       26       C       M       Loamy/Clayey       Prominent redox concentrations         10-16       10YR 4/6       10       10YR 4/6       S0       10YR 4/6       S0       10YR 4/6       10YR 4/6 <t< td=""></t<>
10-16       10YR 4/1       75       10YR 4/6       25       C       M       Loamy/Clayey       Prominent redox concentrations
Image: transmission of the second
Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R,         Histic Epipedon (A2)       MLRA 149B)         Black Histic (A3)       Thin Dark Surface (S9) (LRR R, MLRA 149B)         Hydrogen Sulfide (A4)       High Chroma Sands (S11) (LRR K, L)         Stratified Layers (A5)       Loamy Mucky Mineral (F1) (LRR K, L)         Depleted Below Dark Surface (A11)       Loamy Gleyed Matrix (F2)         Thick Dark Surface (A12)       X         Sandy Mucky Mineral (S1)       Redox Dark Surface (F6)         Sandy Gleyed Matrix (S4)       Depleted Dark Surface (F7)         Sandy Redox (S5)       Redox Depressions (F8)         Dark Surface (S7)       Marl (F10) (LRR K, L) <sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.         Restrictive Layer (If observed):       Type:         Type:       none         Depth (inches):       Hydric Soil Present?       Yes_X         Remarks:       This data form is revised from Northcentral and Northeast Regional Supplement Version 2.0 to include the NRCS Field Indicators of Hydric Soils,



## WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: CHPE		City/Co	unty: Whiteh	all/Washington	Sa	ampling Date: <u>4</u> /	/5/22	
Applicant/Owner: TDI				State:	NY	Sampling Point:	SA2/3/4 Upl	
Investigator(s): N. Frazer & J. Greaves Section, Township, Range:								
Landform (hillside, terrace, etc.):       flat       Local relief (concave, convex, none): none       Slope %:						%: 0		
Subregion (LRR or MLRA): LRR R	_ Lat:	43-28-59.74N	Long:	73-25-41.23W		Datum:		
Soil Map Unit Name: Kingsbury silty clay (KbA)				NWI classifi	ication: <u>N</u>	I/A		
Are climatic / hydrologic conditions on the site typ	ical for	this time of year?	Yes X	No	(If no, exp	olain in Remarks.)	)	
Are Vegetation, Soil, or Hydrology	/	significantly disturbed?	Are "Norn	nal Circumstance	s" present	.? Yes <u>X</u> N	<b>√</b> 0	
Are Vegetation, Soil, or Hydrology	/	naturally problematic?	(If needed	d, explain any ans	wers in R	emarks.)		
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.								
Hydrophytic Vegetation Present?YeHydric Soil Present?Ye			e Sampled A in a Wetland		N	No_X_		

Wetland Hydrology Present?	Yes	No X	If yes, optional Wetland Site ID:	_
Remarks: (Explain alternative procedur Data point for SA2-10, SA3-1 and SA4-		,		

### HYDROLOGY

Wetland Hydrology Indicators:			Secondary Indicators (mini	imum of two required)	
Primary Indicators (minimum of one is required; check all that apply) Surface Soil Cracks (B6)					
Surface Water (A1)		Drainage Patterns (B10)			
High Water Table (A2)	Aquatic Fauna (B13)		Moss Trim Lines (B16)		
Saturation (A3)	Marl Deposits (B15)		? Dry-Season Water Table (C2)		
Water Marks (B1)	Hydrogen Sulfide Odor (C1)		Crayfish Burrows (C8)		
Sediment Deposits (B2)	Oxidized Rhizospheres on Living Ro	oots (C3)	Saturation Visible on A	Aerial Imagery (C9)	
Drift Deposits (B3)	Presence of Reduced Iron (C4)		Stunted or Stressed P	lants (D1)	
Algal Mat or Crust (B4)	Recent Iron Reduction in Tilled Soils	s (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 Relie	ef (D4)	
Sparsely Vegetated Concave Surface (B	8)		FAC-Neutral Test (D5)	)	
Field Observations:					
Surface Water Present? Yes	No x Depth (inches):				
Water Table Present? Yes x	No Depth (inches): 14				
Saturation Present? Yes	No x Depth (inches):	Wetlan	d Hydrology Present?	Yes No X	
(includes capillary fringe)					
Describe Recorded Data (stream gauge, mor	nitoring well, aerial photos, previous inspe	ctions), if a	available:		
Remarks:					

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

Sampling Point: SA2/3/4 Upl

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				Total Number of Dominant Species Across All Strata:1(B)
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)
7.				Prevalence Index worksheet:
		=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15')				OBL species $0   x 1 = 0$
1				FACW species $0   x 2 = 0$
				FAC species 8 x 3 = 24
				FACU species 96 x 4 = 384
				UPL species $0 \times 5 = 0$
				·
5				
6				Prevalence Index = B/A = <u>3.92</u>
7				Hydrophytic Vegetation Indicators:
		=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5' )				2 - Dominance Test is >50%
1. Dactylis glomerata	80	Yes	FACU	3 - Prevalence Index is ≤3.0 <sup>1</sup>
2. Trifolium repens	15	No	FACU	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
3. Galium boreale	8	No	FAC	data in Remarks or on a separate sheet)
4. Geranium maculatum	1	No	FACU	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5.				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
6.				be present, unless disturbed or problematic.
7.				Definitions of Vegetation Strata:
8.				The Manchen Lente O in (7.0 mm) and the in
9.				<b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
10.				
11.				<b>Sapling/shrub</b> – 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
	104	=Total Cover		of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size: 30')				Woody vines – All woody vines greater than 3.28 ft in
1				height.
2				
3.				Hydrophytic Vegetation
4.				Present? Yes No X
		=Total Cover		
Remarks: (Include photo numbers here or on a sepa		-		
	ate sheet.)			

L

## SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth	Matrix		Redox	x Featur	es			
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-16	10YR 4/1	98	10YR 5/8	2	С	M	Loamy/Clayey Pro	ominent redox concentrations
16-18	10YR 4/2	75	10YR 5/8	25	C	M	Loamy/Clayey Pro	ominent redox concentrations
		etion R	/	 96M-21	ked Sand	Grains	<sup>2</sup> Location: PL=Por	e Lining M-Matrix
Hydric Soil I				10-11103				blematic Hydric Soils <sup>3</sup> :
Histosol			Polyvalue Belo	w Surfa	ce (S8) (I	LRR R,		0) (LRR K, L, MLRA 149B)
	ipedon (A2)		 MLRA 149B		. , .			Redox (A16) ( <b>LRR K, L, R</b> )
Black Hi	stic (A3)		Thin Dark Surfa	ace (S9	) (LRR R	, MLRA 1	149B) 5 cm Mucky Pe	eat or Peat (S3) ( <b>LRR K, L, R</b> )
Hydroge	n Sulfide (A4)		High Chroma S	Sands (S	611) ( <b>LRF</b>	R K, L)	Polyvalue Belo	w Surface (S8) ( <b>LRR K, L</b> )
Stratified	l Layers (A5)		Loamy Mucky I	Mineral	(F1) ( <b>LRI</b>	R K, L)	Thin Dark Surf	ace (S9) ( <b>LRR K, L</b> )
Depleted	Below Dark Surface	e (A11)	Loamy Gleyed	Matrix (	F2)		Iron-Manganes	e Masses (F12) ( <b>LRR K, L, R</b> )
Thick Da	rk Surface (A12)		X Depleted Matrix	x (F3)			Piedmont Floo	dplain Soils (F19) ( <b>MLRA 149B</b> )
Sandy M	lucky Mineral (S1)		Redox Dark Su	ırface (F	6)		Mesic Spodic (	TA6) ( <b>MLRA 144A, 145, 149B</b> )
Sandy G	leyed Matrix (S4)		Depleted Dark	Surface	e (F7)		Red Parent Ma	aterial (F21)
Sandy R	edox (S5)		Redox Depress	sions (F	8)		Very Shallow D	Dark Surface (F22)
	Matrix (S6)		Marl (F10) ( <b>LR</b>	<b>R K, L</b> )			Other (Explain	in Remarks)
Dark Sur	face (S7)							
<sup>3</sup> Indicators of	by dranby tip y protot	ion and u	ustland budralagu mu	int ha m	coost ur	alaaa diat	urbad or problematic	
	-ayer (if observed):		velianu nyurology mu	ist be pi	esent, u		urbed or problematic.	
Type:	non	е						
Depth (ir		•					Hydric Soil Present?	Yes X No
Remarks: This data form is revised from Northcentral and Northeast Regional Supplement Version 2.0 to include the NRCS Field Indicators of Hydric Soils,								
			.usda.gov/Internet/FS					, , , , , , , , , , , , , , , , , , ,



## WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: CHPE	_ City/County: Whitehall / Washington Sampling Date: 11/15/21
Applicant/Owner: TDI	State: NY Sampling Point: WET CIII-2
Investigator(s): J. Greaves, C. Scrivner	Section, Township, Range:
	relief (concave, convex, none): Concave Slope %: 2
Subregion (LRR or MLRA): LRR R Lat: 43-28-39.41N	Long: 73-25-47.11W Datum: WGS 84
Soil Map Unit Name: KbA - Kingsbury silty clay	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 Hydrologysignificantly 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 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 CIII-2
Remarks: (Explain alternative procedures here or in a separate report.) Palustrine Emergent Marsh. Edinger classification: Shallow Emergent Mars	h.
L HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
X Surface Water (A1) Water-Stained Leaves (E	B9) Drainage Patterns (B10)
X High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)
X Saturation (A3) Marl Deposits (B15)	Dry-Season Water Table (C2)
Water Marks (B1) Hydrogen Sulfide Odor (	C1) Crayfish Burrows (C8)
Sediment Deposits (B2) X Oxidized Rhizospheres of	on Living Roots (C3) Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B3) Presence of Reduced Irc	on (C4) Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4) Recent Iron Reduction in	n Tilled Soils (C6) X Geomorphic Position (D2)
Iron Deposits (B5) Thin Muck Surface (C7)	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remark	
Sparsely Vegetated Concave Surface (B8)	X FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes X No Depth (inches):	
Water Table Present? Yes X No Depth (inches):	
Saturation Present? Yes X No Depth (inches):	0 Wetland Hydrology Present? Yes X No
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	vious inspections), ir available:
Remarks:	

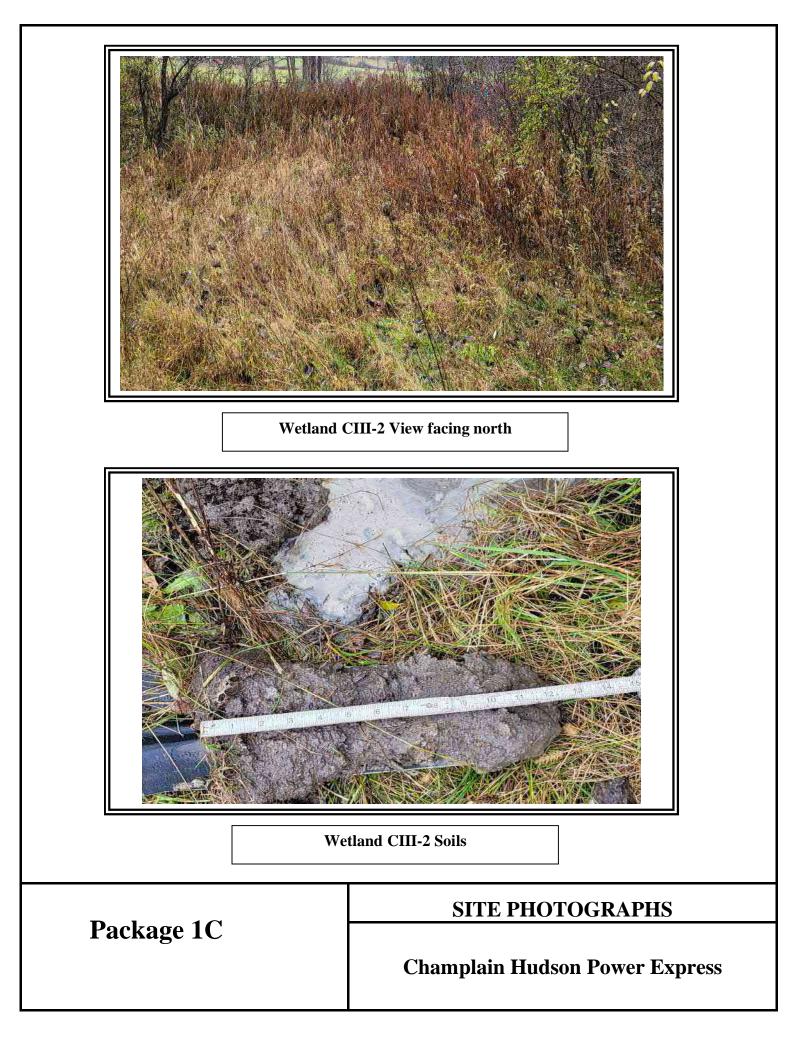
## **VEGETATION** – Use scientific names of plants.

Sampling Point: WET CIII-2

Yes Yes 	FACW FACW	Number of Dominant Species That Are OBL, FACW, or FAC: Total Number of Dominant Species Across All Strata: Percent of Dominant Species That Are OBL, FACW, or FAC: Prevalence Index worksheet:	6 6 100.0%	_(A) _(B)	
	  	That Are OBL, FACW, or FAC: Total Number of Dominant Species Across All Strata: Percent of Dominant Species That Are OBL, FACW, or FAC:	6	,	
=Total Cover	  	Species Across All Strata: Percent of Dominant Species That Are OBL, FACW, or FAC:		_(B)	
=Total Cover		Species Across All Strata: Percent of Dominant Species That Are OBL, FACW, or FAC:		_(B)	
=Total Cover	- <u> </u>	That Are OBL, FACW, or FAC:	100.0%		
=Total Cover		That Are OBL, FACW, or FAC:	100.0%		
=Total Cover		Prevalence Index worksheet		_(A/B	
=Total Cover		I TEVALETICE HILLEN WURAHEEL.			
		Total % Cover of:	Multiply by:		
		OBL species 30 x	1 =30		
Yes	FACW	FACW species 75 x 2	2 = 150		
Yes	FACW	FAC species 0 x 3	3 =0		
		FACU species 10 x 4	4 = 40		
		UPL species 0 x s	5 = 0		
		Column Totals: 115 (A	.) 220	(E	
		Prevalence Index = B/A =	1.91		
		Hydrophytic Vegetation Indicate	ors:		
=Total Cover	r				
		X 2 - Dominance Test is >50%	Ū		
Yes	FACW	X 3 - Prevalence Index is ≤3.0 <sup>1</sup>			
	OBL	4 - Morphological Adaptations <sup>1</sup> (Provide support			
	FACU	data in Remarks or on a separate sheet)			
No	FACW	Problematic Hydrophytic Veg	etation <sup>1</sup> (Expla	ain)	
No	OBL				
	<u> </u>			must	
	- <u> </u>	Definitions of Vegetation Strata	:		
		_			
		, , , , , , , , , , , , , , , , , , ,	,	liamet	
			-		
				JRH	
	- <u> </u>				
=Total Cover				ardles	
			reater than 3.2	28 ft ii	
	·				
	·	Hydrophytic			
	·	-	No		
-Total Cover			<u> </u>		
	Yes Yes No No No No Total Cover	Yes         FACW           Yes         OBL           No         FACU           No         FACW           No         OBL           No         OBL	UPL species       0       x 4         Column Totals:       115       (A         Prevalence Index = B/A =       Hydrophytic Vegetation Indicato	UPL species       0       x 5 =       0         Column Totals:       115       (A)       220         Prevalence Index = B/A =       1.91         Hydrophytic Vegetation Indicators:       1.91	

## SOIL

	ription: (Describe t	o the de				tor or co	onfirm the absence of in	ndicators.)	
Depth	Matrix			x Featur		2			
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks	
0-4	10YR 3/1	65	10YR 5/1	5	C	M	Loamy/Clayey	Faint redox concentrations	
			10YR 5/3	20	С	M		Distinct redox concentrations	
			10YR 4/4	10	С	PL		Distinct redox concentrations	
4-16	2.5Y 4/1	75	10YR 4/3	10	С	М	Mucky Loam/Clay	Distinct redox concentrations	
			10YR 5/2	15	С	М		Faint redox concentrations	
<sup>1</sup> Terrary 0, 0, 0							2	Dava Liniza M. Matrix	
Hydric Soil I		etion, Riv	I=Reduced Matrix, M	S=IVIASK	ed Sand	Grains.		=Pore Lining, M=Matrix. r Problematic Hydric Soils <sup>3</sup> :	
, Histosol (			Polyvalue Belo	w Surfac	e (S8) ( <b>I</b>	_RR R.	2 cm Muc	ck (A10) ( <b>LRR K, L, MLRA 149B</b> )	
	ipedon (A2)		MLRA 149B			,		airie Redox (A16) ( <b>LRR K, L, R</b> )	
Black His	,		Thin Dark Surfa	,		MIRA		ky Peat or Peat (S3) ( <b>LRR K, L, R</b> )	
	n Sulfide (A4)		High Chroma S					Below Surface (S8) (LRR K, L)	
	Layers (A5)		Loamy Mucky I			κ <b>κ</b> , L)		Surface (S9) (LRR K, L)	
	Below Dark Surface	(A11)	Loamy Gleyed		-2)			ganese Masses (F12) (LRR K, L, R)	
	rk Surface (A12)		X Depleted Matri					Floodplain Soils (F19) ( <b>MLRA 149B</b> )	
	ucky Mineral (S1)		X Redox Dark Su		,			odic (TA6) ( <b>MLRA 144A, 145, 149B</b> )	
	leyed Matrix (S4)		Depleted Dark		. ,		Red Parent Material (F21)		
	edox (S5)		X Redox Depress		3)		Very Shallow Dark Surface (F22)		
	Matrix (S6)		Marl (F10) ( <b>LR</b>	R K, L)			Other (Explain in Remarks)		
Dark Sur	face (S7)								
<sup>3</sup> Indicators of	hydrophytic vegetati	on and w	etland hydrology mus	st be pre	sent, unl	less distu	rbed or problematic.		
	ayer (if observed):								
Type:									
	ches):						Hydric Soil Present	t? Yes X No	
Remarks:									



## WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: <u>CHPE</u>	City/County: Whitehall / Washington Sampling Date: 11/15/21
Applicant/Owner: TDI	State: NY Sampling Point: UPL CIII-2
Investigator(s): J. Greaves, C. Scrivner	Section, Township, Range:
Landform (hillside, terrace, etc.): Terrace Local	relief (concave, convex, none): Convex Slope %: 2
Subregion (LRR or MLRA): LRR R Lat: 43-28-39.02N	Long: 73-25-46.99W Datum: WGS 84
Soil Map Unit Name: KbA - Kingsbury silty clay	NWI classification: NA
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes X No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrologysignificantly disturb	
Are Vegetation, Soil, or Hydrologynaturally problema	
SUMMARY OF FINDINGS – Attach site map showing sam	pling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No X	Is the Sampled Area
Hydric Soil Present? Yes X No	within a Wetland? Yes No X
Wetland Hydrology Present? Yes No X	If yes, optional Wetland Site ID:
Remarks: (Explain alternative procedures here or in a separate report.)	·
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 (F	B9) Drainage Patterns (B10)
High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)
Saturation (A3) Marl Deposits (B15)	Dry-Season Water Table (C2)
Water Marks (B1) Hydrogen Sulfide Odor (	
Sediment Deposits (B2) Oxidized Rhizospheres of	
Drift Deposits (B3) Presence of Reduced Irc	
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	ks) Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No X Depth (inches):	
Water Table Present? Yes X No Depth (inches):	
Saturation Present? Yes X No Depth (inches):	
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	vious inspections), if available:
Remarks:	

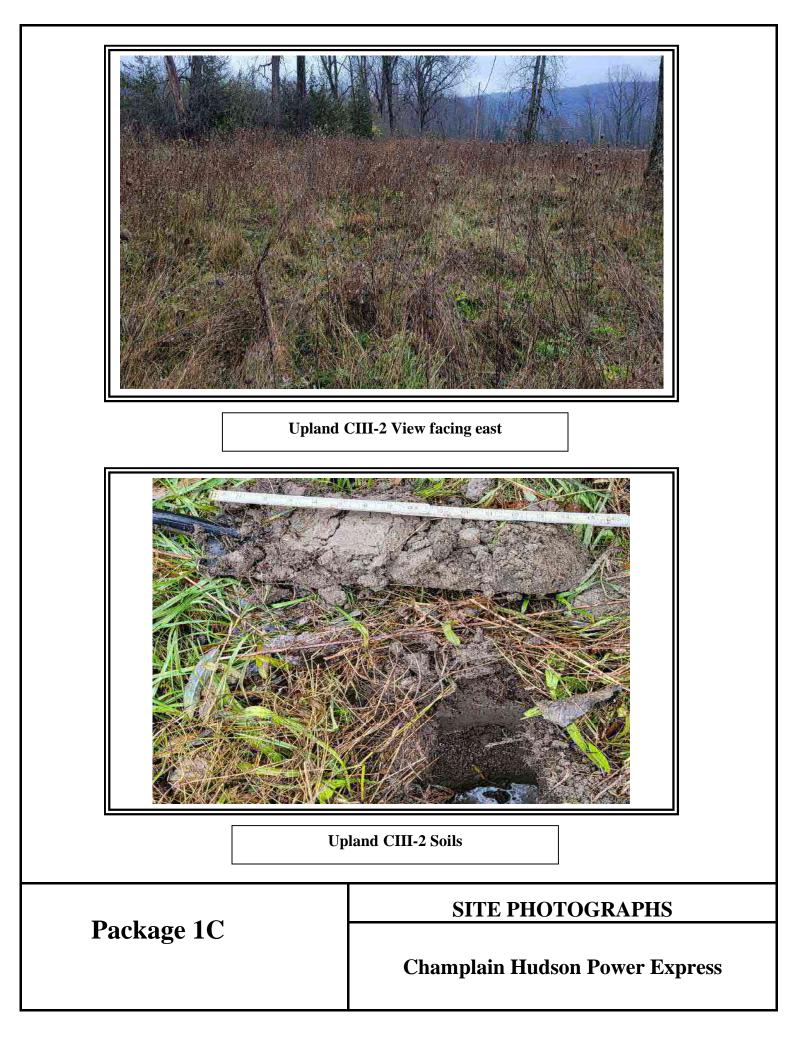
## **VEGETATION** – Use scientific names of plants.

Sampling Point: UPL CIII-2

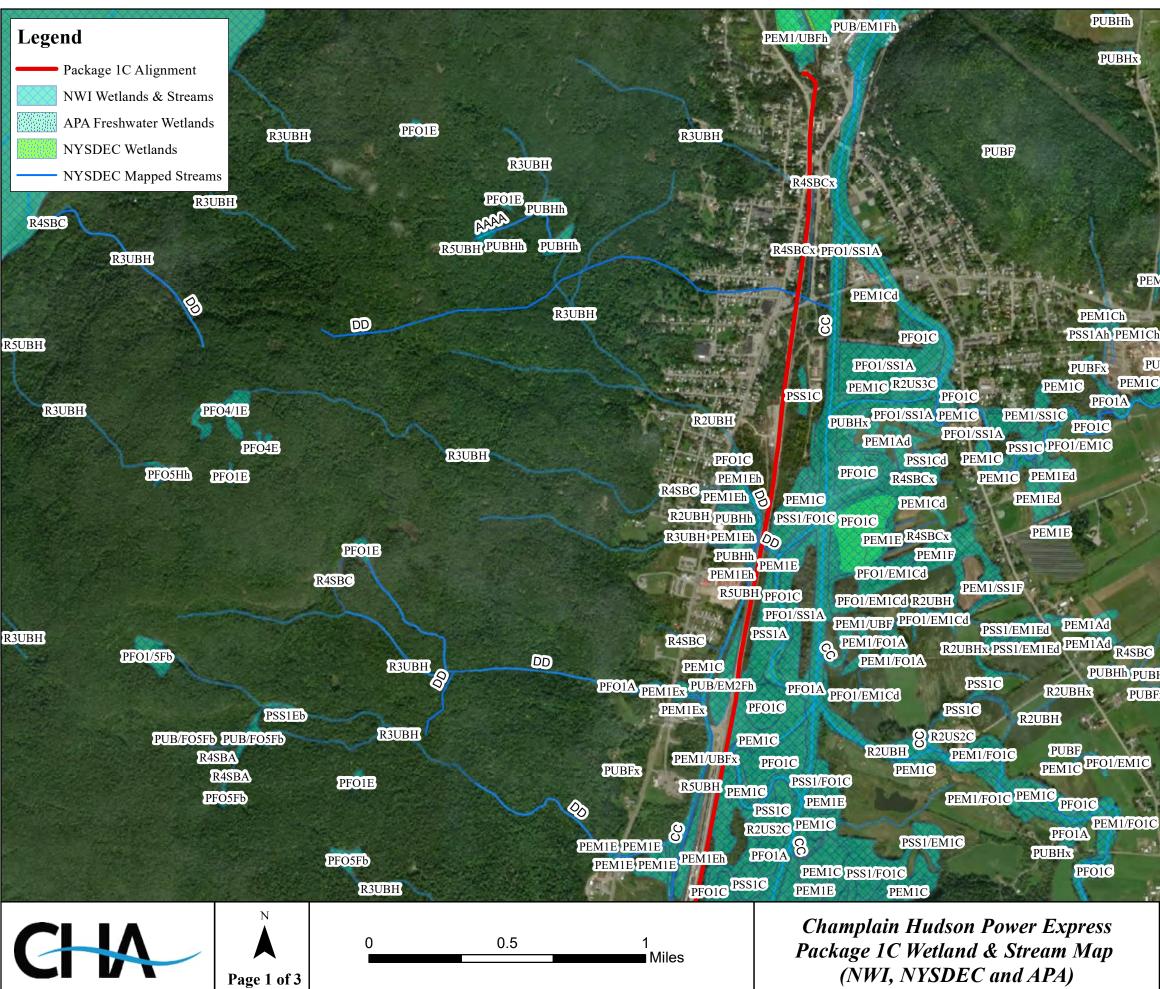
Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
		opecies:	Sidius	
1.       2.				Number of Dominant Species         That Are OBL, FACW, or FAC:       1         (A)
3.       4.				Total Number of Dominant Species Across All Strata: <u>3</u> (B)
5.           6.				Percent of Dominant Species That Are OBL, FACW, or FAC: 33.3% (A/B)
7.		- 		Prevalence Index worksheet:
		=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15')				OBL species x 1 =
1				FACW species 0 x 2 = 0
2				FAC species 20 x 3 = 60
3				FACU species 20 x 4 = 80
4.				UPL species 60 x 5 = 300
5.				Column Totals: 100 (A) 440 (B)
6.				Prevalence Index = B/A = 4.40
7.				Hydrophytic Vegetation Indicators:
		=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5')				2 - Dominance Test is >50%
1. Daucus carota	50	Yes	UPL	3 - Prevalence Index is ≤3.0 <sup>1</sup>
2. Setaria pumila	20	Yes	FAC	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
3. Plantago lanceolata	20	Yes	FACU	data in Remarks or on a separate sheet)
4. Rubia peregrina	10	No	UPL	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5.				
6.				<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
7				Definitions of Vegetation Strata:
8.		<u> </u>		Tree – Woody plants 3 in. (7.6 cm) or more in diameter
9.		- 		at breast height (DBH), regardless of height.
10.				Sapling/shrub – Woody plants less than 3 in. DBH
11.				and greater than or equal to 3.28 ft (1 m) tall.
12.				
	100	=Total Cover		<b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size: 30')				Woody vines – All woody vines greater than 3.28 ft in
1				height.
2.				
3.				Hydrophytic Vegetation
4.				Present? Yes No X
		=Total Cover		
Remarks: (Include photo numbers here or on a separate	ate sheet.)			1
	, , , , , , , , , , , , , , , , , , ,			

## SOIL

Profile Desc	ription: (Describe	to the dep	oth needed to docu	ument th	e indica	tor or co	nfirm the absence of i	ndicators.)
Depth	Matrix		Redo	x Featur	es			
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-4	10YR 2/1	100					Loamy/Clayey	
4-16	2.5Y 5/1	90	10YR 5/6	5	С	М	Sandy	Prominent redox concentrations
			10YR 3/4	5	С	М		Prominent redox concentrations
		·						
		·						
		·						
		·						
		·						
	oncentration, D=Depl	etion, RM	=Reduced Matrix, M	IS=Mask	ed Sand	Grains.		=Pore Lining, M=Matrix.
Hydric Soil I					(0.0) (1			r Problematic Hydric Soils <sup>3</sup> :
Histosol			Polyvalue Belo		ce (S8) ( <b>I</b>	.RR R,		k (A10) ( <b>LRR K, L, MLRA 149B</b> )
	vipedon (A2)		MLRA 1498	,				airie Redox (A16) (LRR K, L, R)
Black His	n Sulfide (A4)		Thin Dark Surf High Chroma S					cky Peat or Peat (S3) (LRR K, L, R) Below Surface (S8) (LRR K, L)
	I Layers (A5)		Loamy Mucky					Surface (S9) (LRR K, L)
	Below Dark Surface	(A11) م	Loamy Gleyed			( I <b>(</b> , Ľ)		ganese Masses (F12) (LRR K, L, R)
	irk Surface (A12)	,,,,,,	Depleted Matri		_)			Floodplain Soils (F19) (MLRA 149B)
	lucky Mineral (S1)		Redox Dark Si		6)			odic (TA6) ( <b>MLRA 144A, 145, 149B</b> )
	leyed Matrix (S4)		Depleted Dark					nt Material (F21)
X Sandy R			Redox Depres					llow Dark Surface (F22)
	Matrix (S6)		Marl (F10) (LR					plain in Remarks)
Dark Sur	face (S7)							
	hydrophytic vegetat		etland hydrology mu	st be pre	esent, unl	ess distu	rbed or problematic.	
	.ayer (if observed):							
Туре:								
Depth (ir	iches):						Hydric Soil Present	t? Yes <u>X</u> No
Remarks:								

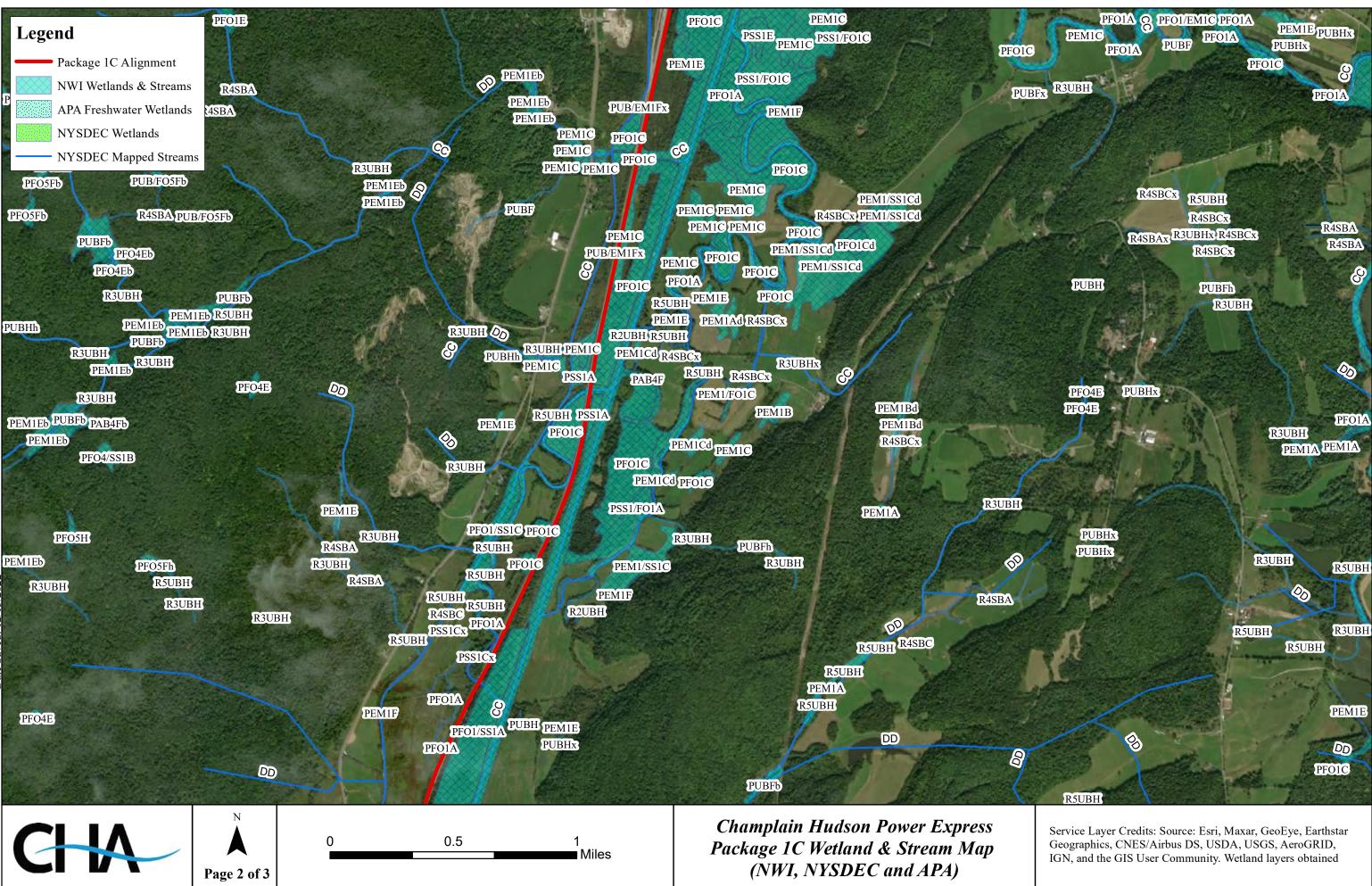


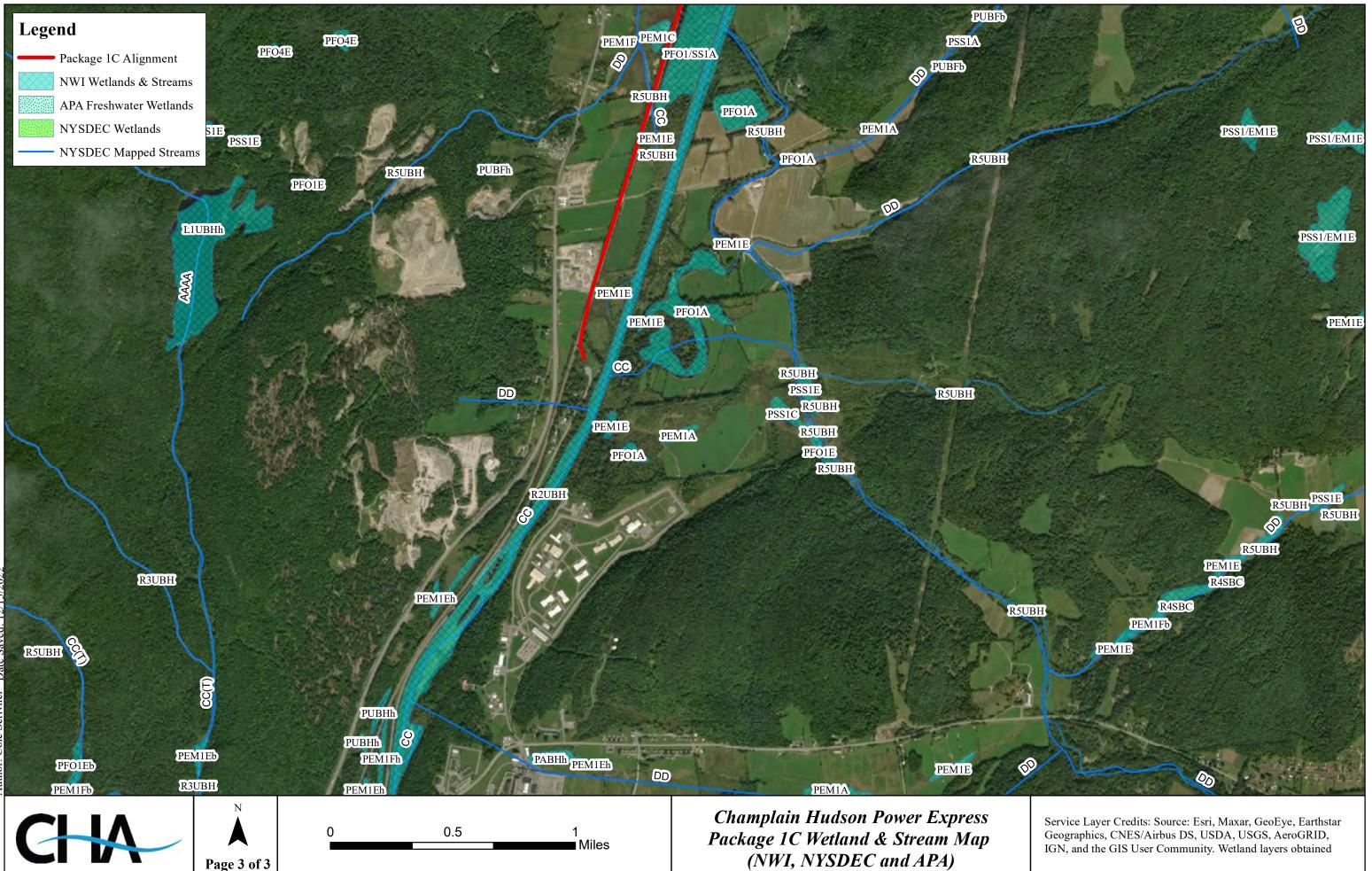
## ATTACHMENT 2 NWI & NYSDEC WETLAND & STREAM MAPS



	R4SBA	
PUBH	IC+SDA	
R4SBA	A CONTRACTOR	
	DD	
R2UBHx		
PUBHx O R2UBHx	1000	\$¶}
PUBHA R2UBH		En 1
R5UBH		Sec.
PUBHh		
R4SBC	3 X X/	1
PUBHx	N Day	CONT OF
	PEMIC PEMIB	
PEMICd	PEMIC	20
PUSAX PEMICA PSS		DD
EM1C PSS1C PF01/S	SIC PEMIC PEMIE	Pf
PFO1/SSIC	PEMIE	
DEMIE	ALCON TO	-
Ch PSSIA PSSIA PEMIE		
PEO1/SSIA	the second second	and from
PEOIL PEOI/SSIA		The second
Photo Hole	DD PEMIE	- 30
	SSI/FOIA PFOIE	In y
	PFO	E
		PEM1E
R4SBA	8	
CARD AND AND AND A DESCRIPTION OF A DESC	E Contraction of the second	M PFM1F
		PEM1E
AN AMERICA		
as 11		PEMIE
		PEMIE
		PEMIE
PSS1/EMI		PEMIE
PSS1/EMI R2UBH		PEMIE
		PEMIE
	0	PEMIE
R2UBH		PEMIE
R2UBH BHh BFx	0	PEMIE
R2UBH BHh	0	PEMIE
R2UBH BHh BFx	0	PEMIE R3UBH
R2UBH BHh BFx	0	PEMIE
R2UBH BHh BFx	0	PEMIE R3UBH
R2UBH BHh BFx	0	PEMIE R3UBH
R2UBH BHh BFx R2UBH	PEMIE	PEMIE R3UBH
R2UBH BHh BFx R2UBH PEMIE PEMIB PUB/EMIE	0	PEMIE R3UBH
R2UBH BHh BFx R2UBH PEMIE PEMIB PUR/FMIE	PEMIE	PEMIE R3UBH
R2UBH BHh BFx R2UBH R2UBH C PEMIE PEMIB C PUB/EMIF PUBF PUBF PEMIE	PEMIE	PEMIE R3UBH
R2UBH BHh BFx R2UBH R2UBH PEMIE PEMIB PUB/EMIF PUBF PUBF PEMIE Ff	PEMIE	PEMIE R3UBH
R2UBH BHh BFx R2UBH R2UBH C PEMIE PEMIB C PUB/EMIF PUBF PUBF PEMIE	PEMIE	PEMIE R3UBH

Service Layer Credits: Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community. Wetland layers obtained



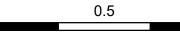


## ATTACHMENT 3 NRCS SOIL MAPS









Miles

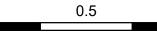
Champlain Hudson Power Express Package 1C NRCS Soil Map

Service Layer Credits: Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community. Soil data was obtained from the NRCS.





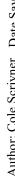




Miles

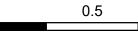
Champlain Hudson Power Express Package 1C NRCS Soil Map Service Layer Credits: Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community. Soil data was obtained from the NRCS.











Miles

Champlain Hudson Power Express Package 1C NRCS Soil Map Service Layer Credits: Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community. Soil data was obtained from the NRCS.

## ATTACHMENT 4 TABLES

Table 4-1         Summary of Wetlands Within the Project Corridor <sup>1</sup>						
Approximate Station & Dwg. No.	Wetland ID	Cowardin Classification <sup>2</sup>	Associated Water Course	Area w/in JD Limits Square Feet (sf)	USACE & NYSDEC Jurisdiction	Coordinates (lat., long)
CP Rail						
15078+00	G-R-S	PEM	Unnamed Tributary to Champlain Canal	232,540 sf	USACE	43.535, - 73.408
15093+00	G-R-X	PEM/PSS/PFO	Unnamed Tributaries to Champlain Canal (C-R- S3, C-R-S2, C-R-X-S1 and G-R-S-M)	651,777 sf	USACE	43.514, - 73.415
15142+00	G-R-U	PEM/PFO	Unnamed Tributary to Champlain Canal (G-R-S- K)	205,249 sf	USACE	43.516, - 73.412
15186+00	G-R-V	PFO	Champlain Canal	6,274 sf	USACE	43.508, - 73.415
15198+00	G-R-W	PSS/PFO	Champlain Canal	12,724 sf	USACE	43.504, - 73.416
15282+00	G-R-Y	PEM	Unnamed Tributary to Champlain Canal (G-R-S- N)	48,391 sf	USACE	43.481, - 73.429
15304+00	CIII	PEM	Appears isolated but general drainage to Champlain Canal	1,250 sf	USACE	43.477, - 73.430

<sup>1</sup>Wetlands identified include both wetlands that are directly crossed by the overland transmission cable

corridor as well as wetlands that are adjacent to the Project Corridor that were delineated during field surveys.

<sup>2</sup>Cowardin et al. 1979 categories include: Palustrine Emergent (PEM), Palustrine Forested (PFO), Palustrine Scrub-Shrub (PSS), and palustrine unconsolidated bottom (PUB).

	Table 4-2           Summary of Waterbodies within the Project Corridor								
Approximate Station	Waterbody Name	NYSDEC Classification	Waterbody Field ID & NYSDEC Regulation	Flow Status	Substrate	Wid th (ft.) <sup>1</sup>	Depth (ft.) <sup>1</sup>	Length w/in JD Boundary	Coordinates (lat., long.)
				CP Rail					
15105+00	Unnamed Tributary to Champlain Canal	Unmapped	C-R-S3	Intermittent	Mineral soil	2.5	0.75	47	43.53, - 73.409
15121+00	Unnamed Tributary to Champlain Canal	Unmapped	C-R-S2	Perennial	Mineral soil	7	1.5	55.5	43.525, - 73.411
15142+00	Unnamed Tributary to Champlain Canal	Unmapped	C-R-S1/ G-R-S-K	Perennial	Silt over rock	25	5	146	43.52, - 73.412
15178+00	Champlain Canal	C/C	G-R-S-L	Perennial	Silt	40	6	70	43.51, - 73.414
15227+00	Tributary to Champlain Canal	C/C	G-R-S-M	Perennial	Silt	30	4	44	43.498, - 73.421
15298+00	Unnamed Tributary to Champlain Canal	Unmapped	G-R-S-N	Intermittent	Silt and small cobble	5	2-3	25	43.479, - 73.43

<sup>1</sup>Bankfull width and bankfull depth were approximated in the field.

Table 4-3       Soil Description Summary					
County	Soil Name	Symbol	% Slopes	Hydric (y/n)	Drainage Class
Hydric Soils					
Washington	Covington silty clay loam	Cv	0-2	Y	Poorly Drained
Washington	Limerick silt loam	Lm	0-2	Y	Poorly Drained
Washington	Saco silt loam	Sa	0-2	Y	Very Poorly Drained
Washington	Saprists, Aquepts, and Aquents	SB	0-2	Y	Very Poorly Drained
Non-hydric Soils					
Washington	Hartland very fine sandy loam	HcA	0-2	N	Well Drained
Washington	Hollis-Charlton association, moderately steep and steep	HLE	15-25	N	Well Drained
Washington	Kingsbury silty clay	KbA	0-2	Ν	Somewhat Poorly Drained
Washington	Kingsbury silty clay	KbB	2-6	N	Somewhat Poorly Drained
Washington	Orthents and Psamments	OP	0-15	N	Well Drained
Washington	Teel silt loam	Те	0-2	N	Moderately well drained
Washington	Vergennes silty clay loam	VeB	2-6	N	Moderately Well Drained
Washington	Vergennes silty clay loam	VeC	6-12	N	Moderately Well Drained
Washington	Vergennes silty clay loam	VeD	12-20	N	Moderately Well Drained

## ATTACHMENT 5 WETLANDS AND WATERBODIES DELINEATION MAPPING









	3 TATE ROUTE 22	Α
	creating the second sec	
STATE ROUTE 4		
		В
E&S KEY MAP SCALE: 1" = 2000'	Image: Champlain Hudson power express       Kiewit PROJECT NO.         Image: Champlain Hudson power express       21162         Image: Champlain Big of the second sec	
	0       12/16/2022       FINAL EM&CP SUBMISSION       JTM       JPR         No.       DATE       SUBMITTAL / REVISION DESCRIPTION       DB       APP       DRAWN BY:       JJE       DESIGNED BY:       JTM       APPROVED BY:       JPR       SCALE       AS NOTED       DATE       DATE       SCALE       AS NOTED       DATE       DATE       DATE       SCALE       AS NOTED       DATE       12/16/2022	

НН	EXIST. FIBER OPTIC LINE HANDHOLE
P	EXIST. FIBER OPTIC LINE PEDESTAL
DH	EXIST. FIBER OPTIC LINE DOGHOUSE
MH	EXIST. FIBER OPTIC LINE MANHOLE
V	EXIST. FIBER OPTIC LINE VAULT
BP	EXIST. FIBER OPTIC LINE BORE PIT
LB	EXIST. FIBER OPTIC LOCK BOX
	EXIST. GROUND ROD
FIBER • MARK	EXIST. FIBER OPTIC MARKER POST
00	EXIST. FIBER STORAGE
-Q- <sup>HYD</sup>	EXIST. FIRE HYDRANT
$\otimes^{WV}$	EXIST. WATER VALVE
W	EXIST. WATER MANHOLE
WATER MARK	EXIST. WATER MARKER
S	EXIST. SANITARY SEWER MANHOLE
	EXIST. SANITARY SEWER VENT
57	EXIST. STORM SEWER MANHOLE
СВ	EXIST. STORM SEWER CATCH BASIN
< <sup>INV.</sup>	EXIST. CULVERT INVERT
6	EXIST. GAS MANHOLE
€ <sub>cv</sub>	EXIST. GAS VALVE
GAS • MARK	EXIST. GAS MARKER
	EXIST. GAS PIPELINE VENT
<b></b>	EXIST. LIGHT POLE
Ø	EXIST. UTILITY POLE
Ø PP	EXIST. ELEC. POLE
⊗	EXIST. TRAFFIC LIGHT
Ε	EXIST. ELEC. METER
E	EXIST. ELEC. MANHOLE
TR	EXIST. ELEC. TRANSFORMER
V	EXIST. ELEC. VAULT
HH	EXIST. ELEC. HANDHOLE
P	EXIST. ELEC. PEDESTAL/BOX
ELEC MARK	EXIST. ELEC. MARKER POST
ſ	EXIST. ELEC. GUY ANCHOR/WIRE
T	EXIST. TELE. RISER/BOX
1	EXIST. TELE. MANHOLE
нн	EXIST. TELE. HANDHOLE
V	EXIST. TELE. VAULT
P	EXIST. TELE. PEDESTAL
	EXIST. TELE. DOGHOUSE
	EXIST. TELE. MARKER POST
	EXIST. TELE. JUNCTION BOX
TB	EXIST. TRAFFIC SIGNAL BOX
<b>্ট্ৰু</b>	EXIST. CELL TOWER
التاريخ (Balance) (Ba	EXIST. CABLE BOX
	EXISTING MANHOLE UNKNOWN
	EXISTING UTILITY BOX UNKNOWN
CAPPED IRON ROD	EXISTING ANTENNA EXISTING CAPPED IRON ROD
IRON PIPE	EXISTING CAPPED IRON ROD EXISTING IRON PIPE
CONCRETE BOUNDARY	EXISTING IRON PIPE EXISTING CONCRETE MONUMENT
. POST	EXISTING CONCRETE MONOMENT EXISTING POST
· /	EXISTING POST
(SYM.)	EXISTING SYMBOL
<u></u>	

SIGN EXISTING SIGN EXIST. STRUCTURE ۲ EXIST. STRUCTURE Δ ++××−# EXIST. WETLAND FLA EXIST. GAS LINE EXIST. UNDERGROUN — — UT — UT — EXIST. FIBER OPTIC — — FO — FO — EXIST. OVERHEAD — то — то — EXIST. UNDERGROUN EXIST. OVERHEAD ------ OE ------ OE -----EXIST. CULVERT — — ST — ST — EXIST. SANITARY SE — — ss — — ss — EXIST. STORM SEWE — — ST — ST — EXIST. POTABLE WA \_\_\_\_\_w \_\_\_\_w \_\_\_\_ EXIST. RAILROAD TR EXIST. WETLANDS \_\_\_\_ · · · \_\_\_ · · · \_\_\_ · · \_\_\_ ⊗CERTIFIED ROUTE MP XX CERTIFIED ROUTE PRO EXIST. CONTOUR, INDE EXIST. CONTOUR, DEPI  $\neg \frown \frown \frown \frown$ EXIST. CONTOUR, INTE EXIST. CONTOUR, DEPI  $\times^{139.7}$ EXIST. SPOT ELEVATIO  $\subset$   $\bigcirc$ EXIST. CULTURAL DEB \_\_\_\_\_ EXIST. CULTURAL FIEL EXIST. CULTURAL LAN  $\frown$ EXIST. CULTURAL PILE EXIST. CULTURAL STO EXIST. HYDROGRAPHIC /**°**\ EXIST. CULVERT **^** EXIST. INUNDATED ARI EXIST. RIP-RAP EXIST. STREAM EXIST. SWAMP 04.2 WATER LEVEL 0 min .....  $\bigcirc \bigcirc \bigcirc \bigcirc$ 0 0 -----EXIST. TRAIL \_\_\_\_\_ · \_\_\_\_ · \_\_\_\_ · \_\_\_\_ EXIST. FENCE \_\_\_\_\_ X \_\_\_\_\_ EXIST. WALL Ŷ ک <u>154,3550</u> 202

HPE Champlain Hudson **Power Express** 



III Winners Circle, PO Box 5269 Albany, NY 12205-0269 518.453.4500 . www.chacompanies.com

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# LEGEND & ABBREVIATIONS

		PEM – PALUSTRINE EMERGENT
E POST	ZZZZ	PSS – PALUSTRINE SCRUB-SHRUB
E MAILBOX		PFO – PALUSTRINE FORESTED
FLAG		PUB – PALUSTRINE UNCONSOLIDATED BOTTOM
		L1 – LACUSTRINE LIMNETIC
DUND TELE.		L2 – LACUSTRINE LITTORAL
1C		NYSDEC FWW 100-FOOT ADJACENT BUFFER AREA
TELE.		BUTTERFLY HABITAT
DUND ELEC.		JD BOUNDARY
ELEC.	WP	PROP. WETLAND PROTECTION FENCE
	FS	PROP. COMPOST FILTER SOCK (OR SILT SOCK)
SEWER	LOW	PROP. LIMITS OF WORK/DISTURBANCE
WER		PROP. LIMITS OF CLEARING/LIMITS OF WORK IN CLEARING AREAS (SEE NOTE
WATER LINE		PROP. CONCRETE WASHOUT
TRACK		PROP. ACCESS ROAD ROUTE (EXISTING ROAD OR SURFACE)
		PROP. REFURBISHED ACCESS ROAD
PROVIDED BY CHPE KMZ		PROP. ACCESS ROAD OR OFF SITE ACCESS ROAD
NDEX		PROP. TIMBER MATTING ACCESS ROAD
EPRESSION INDEX		PROP. SPLICE LOCATION
NTERMEDIATE		
EPRESSION INTERMEDIATE		PROP. SPLICE VAULT
TION		PROP. LINK BOX HANDHOLE
DEBRIS		PROP. FIBER SPLICE HANDHOLE
IELD LINE		PROP. BORING LOCATION
ANDSCAPE AREA	XXXXX+XX	PROP. ALIGNMENT STATIONING
PILE		PROP. RIGHT-OF-WAY
STORAGE AREA		PROP. ABUTTER
HIC		PROP. ALIGNMENT CENTERLINE
		PROP. TEMPORARY EASEMENT
AREA		PROP. PERMANENT EASEMENT
		PROP. TEMPORARY ACCESS EASEMENT
		APPROXIMATE SNOWMOBILE TRAIL LOCATION
	NOTEO	

NOTES:

EXIST. NATURAL BOULDER

EXIST. NATURAL SHRUB LINE

EXIST. NATURAL TREE LINE

EXIST. NATURAL SINGLE TREE/BUSH

EXIST. STRUCTURAL BUILDING

EXIST. PAVED DRIVE

EXIST. PAVED ROAD

EXIST. PAVED SHOULDER

EXIST. PAVED SIDEWALK

EXIST. GUARDRAIL

EXIST. RAILROAD

EXIST. RETAINING WALL EXIST. MILEPOST NUMBER EXIST. MAPPING BOUNDARY EXIST. GROUND CONTROL PROP. RIGHT-OF-WAY

PROP. ABUTTER

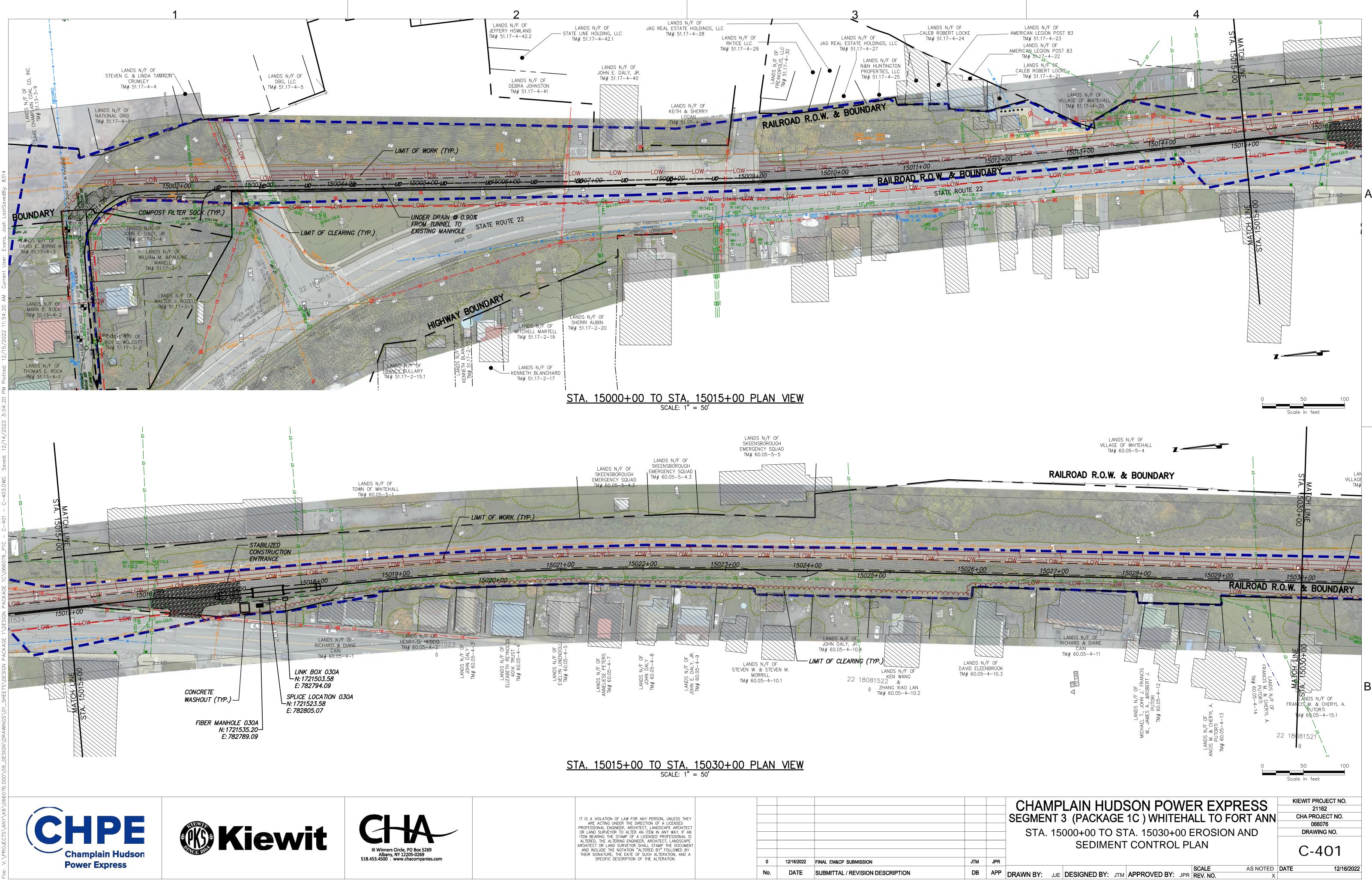
1. LIMIT OF WORK (LOW) - THE BOUNDARY IN WHICH ALL CONSTRUCTION ACTIVITIES, STOCKPILES MATERIAL, EQUIPMENT STORAGE, ACCESS, PARKING, GRADING, LANDSCAPING, RESTORATION, AND ANY OTHER CONSTRUCTION RELATED ACTIVITIES SHALL OCCUR. ADDITIONALLY, THE LOW IS THE BOUNDARY FOR ALL POTENTIAL DISTURBANCE DURING CONSTRUCTION. UNLESS OTHERWISE SPECIFIED, WHEN THE LIMIT OF CLEARING AND GRUBBING IS SHOWN ON THE PLANS, IT SHALL ALSO BE THE LOW. THE LOW INCLUDES THE AREA THAT WOULD BE CONSIDERED THE LIMIT OF DISTURBANCE (LOD).

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED						SI
PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT OR LAND SURVEYOR TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A						-
SPECIFIC DESCRIPTION OF THE ALTERATION.	0	12/16/2022	FINAL EM&CP SUBMISSION	JTM	JPR	
	No.	DATE	SUBMITTAL / REVISION DESCRIPTION	DB	APP	

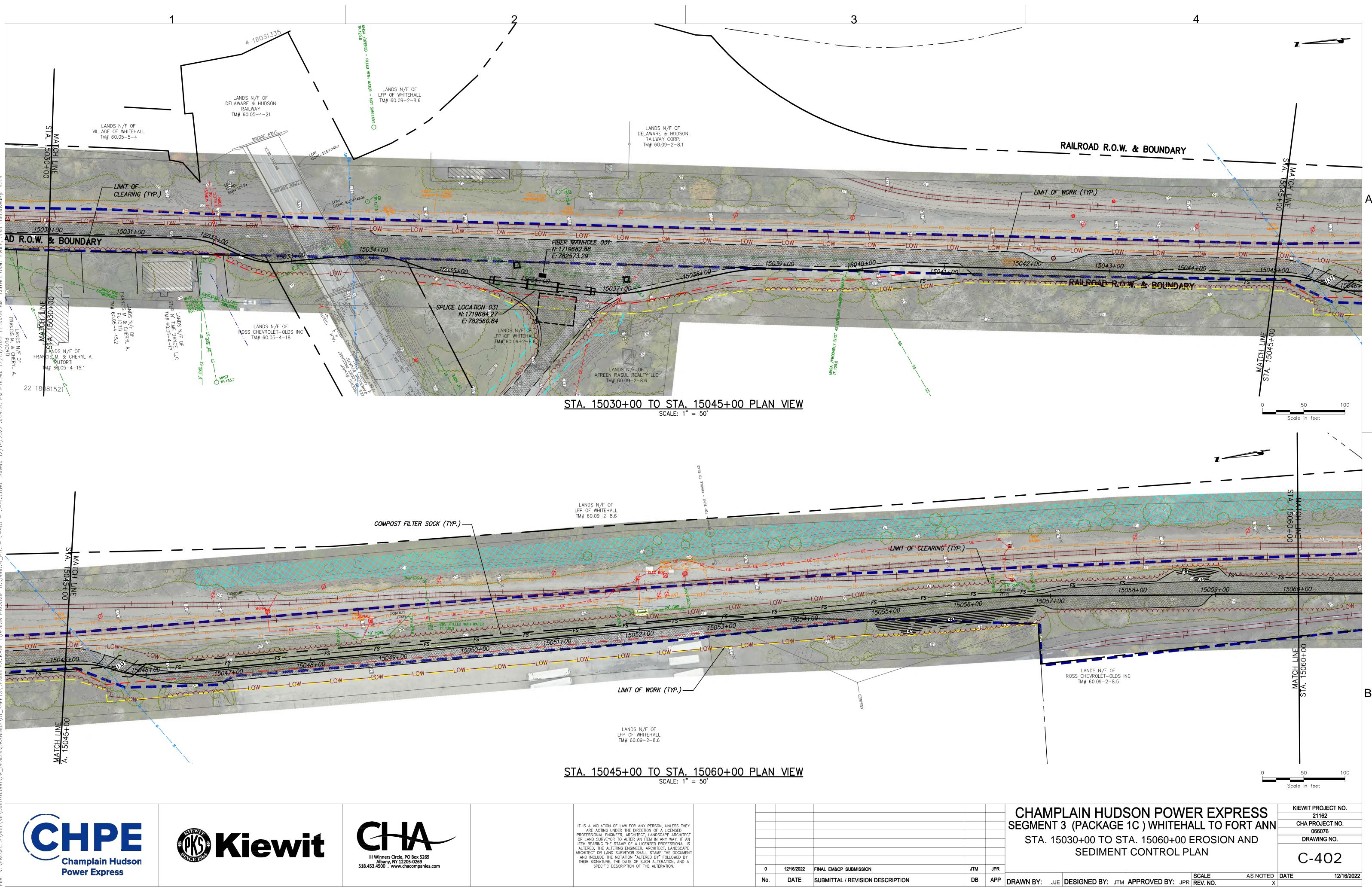
APP	APPROVED
CL	CENTERLINE
CMP	CORRUGATED METAL PIPE
CONC	CONCRETE
DB	DESIGNED BY
DEC	NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DEG	DEGREES
DR	DRIVE
DZ	DEVIATION ZONE
E	EASTING
ELECTRIC	ELECTRIC CABLE
ELEV	ELEVATION
FIBER	FIBER OPTIC CABLE
FT	FEET
GAS	GAS PIPE
Н	HORIZONTAL
HDD	HORIZONTAL DIRECTIONAL DRILLING
HVDC	HIGH-VOLTAGE DIRECT CURRENT TRANSMISSION LINE
INV	INVERT ELEVATION
LOW	LIMITS OF WORK
МАХ	MAXIMUM
MIN	MINIMUM
Ν	NORTHING
NO	NUMBER
NY	NEW YORK
P#	PACKAGE #
PVC	POLYVINYL CHLORIDE
PVI	POINT OF VERTICAL INTERSECTION
R	RADIUS
RCP	REINFORCED CONCRETE PIPE
RD	ROAD
REV	REVISION
ROW	RIGHT-OF-WAY
RTE	ROUTE
SEWER	SANITARY SEWER PIPE
SH	SHEET
ST	STREET
STA	STATION
STORM	STORM DRAIN PIPE
TELECOM	TELECOMMUNICATIONS CABLE
TEMP	TEMPORARY
TR	THERMAL RESISTIVITY
TYP	TYPICAL
V	VERTICAL
WATER	WATERLINE

KIEWIT PROJECT NO. CHAMPLAIN HUDSON POWER EXPRESS 21162 SEGMENT 3 (PACKAGE 1C) WHITEHALL TO FORT ANN CHA PROJECT NO. 066076 LEGEND AND ABBREVIATIONS DRAWING NO. G-004 AS NOTED DATE 12/16/2022 SCALE

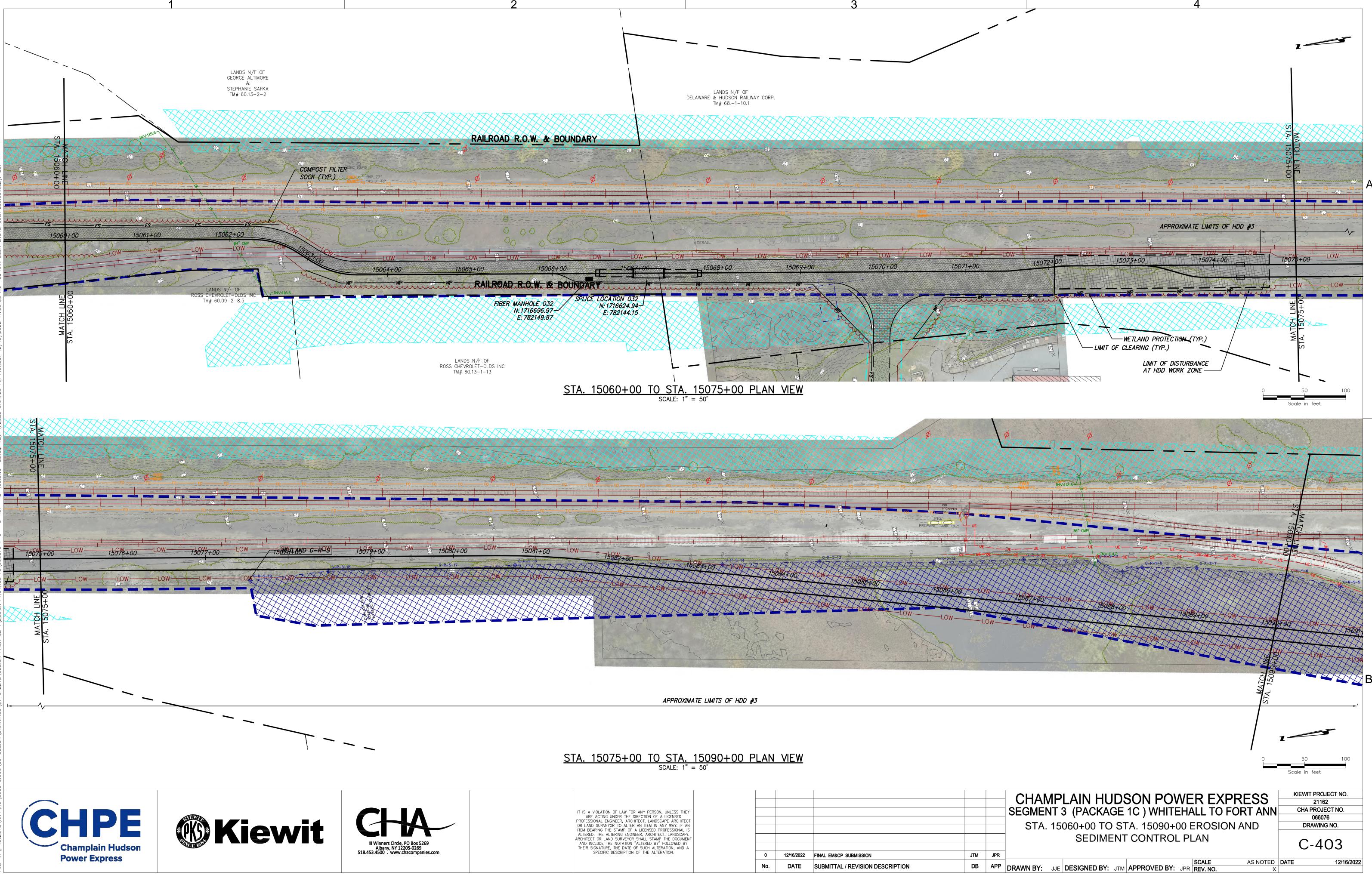
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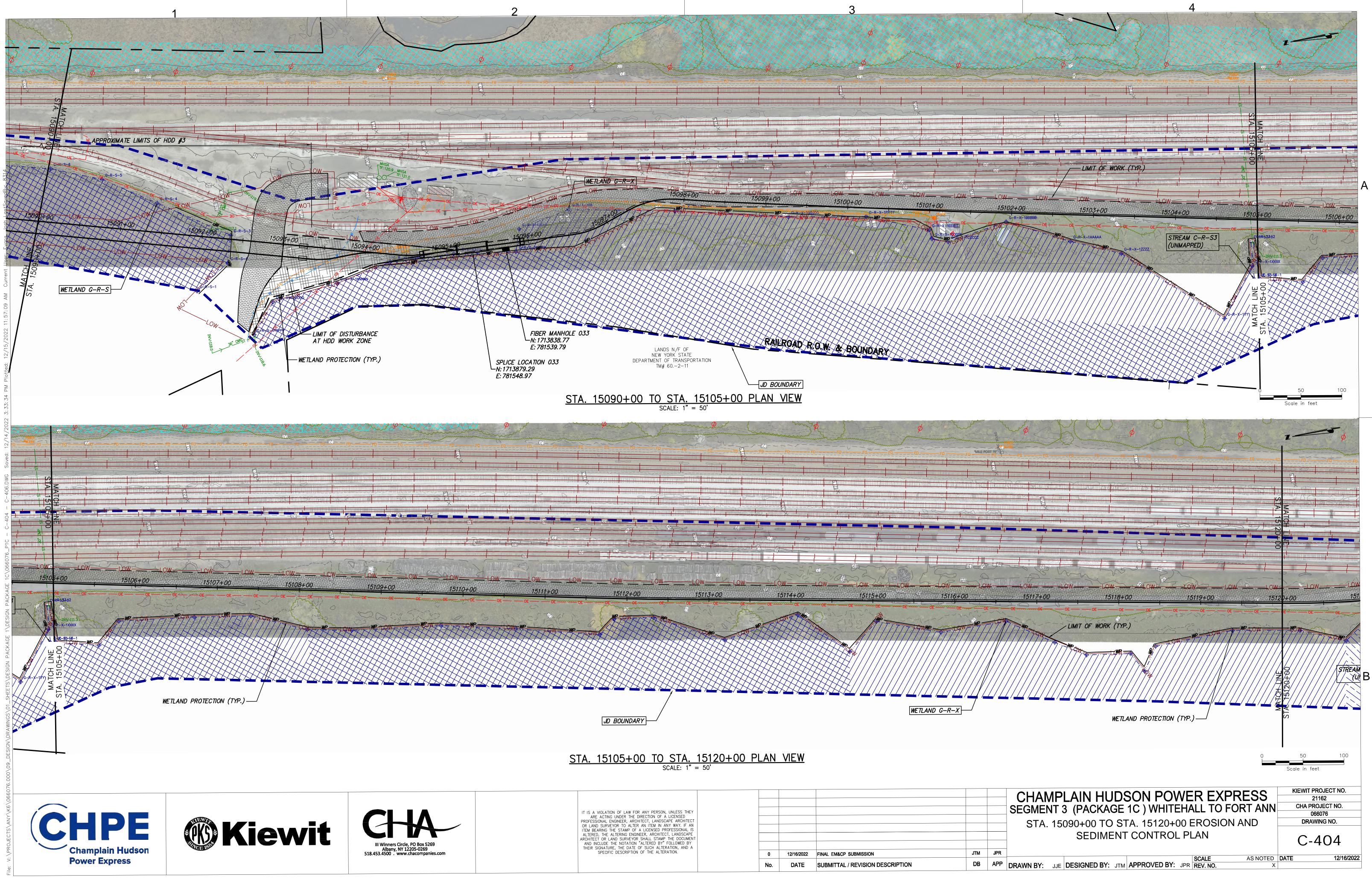
	IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT OR LAND SURVEYOR TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A	-						C SE
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	SPECIFIC DESCRIPTION OF THE ALTERATION.		0	12/16/2022	FINAL EM&CP SUBMISSION	JTM	JPR	1
			No.	DATE	SUBMITTAL / REVISION DESCRIPTION	DB	APP	DRA



PR	IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT OR LAND SURVEYOR TO ALTER AN ITEM IN ANY WAY, IF AN							SE
AL ARC A	ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.	0	0	12/16/2022	FINAL EM&CP SUBMISSION	JTN	JPR	_
		1	No.	DATE	SUBMITTAL / REVISION DESCRIPTION	DE	APP	DRA



IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT OR LAND SURVEYOR TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.	ARE ACTING UNDER THE DIRECTION OF A LICENSED							— (
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		0	12/16/2022	FINAL EM&CP SUBMISSION	JTM	JPR		
		1	No.	DATE	SUBMITTAL / REVISION DESCRIPTION	DB	APP	DRAV



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ARE PROFESSI OR LAND ITEM BEA ALTERED ARCHITECT AND INC THEIR SI	IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT OR LAND SURVEYOR TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE IRCHITECT OR LAND SURVEYOR SHALL STAMP THE DOCUMENT						SE
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		No	. DATE	SUBMITTAL / REVISION DESCRIPTION	DB	APP	DRA

